DEPARTMENT OF THE ARMY
LONGHORN ARMY AMMUNITION PLANT
POST OFFICE BOX 220
RATCLIFF, AR 72951

February 23, 2021

DAIM-ODB-LO

Ms. Lauren Poulos
U.S. Environmental Protection Agency
Federal Facilities Section R6
1201 Elm Street, Suite 500
Dallas, TX 75202-2102

Re: Final Post Screening Investigation Addendum No. 2 Report for LHAAP-47, Plant 3 Area, Solid Rocket Motor Fuel Production Longhorn Army Ammunition Plant, Karnack, Texas

Dear Ms. Poulos,

An electronic copy and 2 CD copies of the above-referenced document are being transmitted to you for your records.

The document was prepared by HDR Environmental, Operations and Construction, Inc. (HDR) on behalf of the Army as part of HDR's contract for the facility. I ask that Phil Werner, HDR's Project Manager, be copied on any communications related to the project.

The point of contact for this action is the undersigned. I may be contacted at 479-635-0110, or by email at rose.m.zeiler.civ@mail.mil.

Sincerely,

Rose M. Zeiler, Ph.D.
Longhorn AAP Site Manager

Copies furnished:
A. Palmie, TCEQ, Austin, TX (1 electronic only)
A. Williams, USACE, Tulsa District, OK (1 electronic only)
R. Smith, USACE, Tulsa District, OK (1 electronic only)
A. Maly, USAEC, San Antonio, TX (1 electronic only)
P. Bruckwicki, Caddo Lake NWR, TX (1 electronic only)
K. Nemmers, Bhate, CNTR (1 electronic only)

DEPARTMENT OF THE ARMY
LONGHORN ARMY AMMUNITION PLANT
POST OFFICE BOX 220
RATCLIFF, AR 72951

February 23, 2021

DAIM-ODB-LO

Ms. April Palmie
Texas Commission on Environmental Quality
Superfund Section, MC-136
12100 Park 35 Circle, Bldg D
Austin, TX 78753

Re: Final Post Screening Investigation Addendum No. 2 Report for LHAAP-47, Plant 3 Area, Solid Rocket Motor Fuel Production Longhorn Army Ammunition Plant, Karnack, Texas

Dear Ms. Palmie,

An electronic copy of the above-referenced document is being transmitted to you for your records.

The document was prepared by HDR Environmental, Operations and Construction, Inc. (HDR) on behalf of the Army as part of HDR's contract for the facility. I ask that Phil Werner, HDR's Project Manager, be copied on any communications related to the project.

The point of contact for this action is the undersigned. I may be contacted at 479-635-0110, or by email at rose.m.zeiler.civ@mail.mil.

Sincerely,

Rose M. Zeiler, Ph.D.
Longhorn AAP Site Manager

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K. Nemmers, Bhate, CNTR (1 electronic only)

Comments Response Matrix
Draft Report: LHAAP-47 Post-Screening Investigation Addendum No. 2 Report for LHAAP-47, Plant 3 Area,
Solid Rocket Motor Fuel Production, Longhorn Army Ammunition Plant, Karnack, Harrison County, Texas
Draft Report Submitted: October 26, 2020
Draft Final Report Submitted January 11, 2021

Document Submitted by: Rose Zeiler - BRAC Field Manager
Comments Submitted by: April Palmie -TCEQ
Responded by: Joy Rogalla, Phil Werner - HDR
Date Responded: Draft 1/11/2021; Draft Final 2/11/2021

1. **Respondent concurs (C), does not concur (D), Takes Exception (E), or Delete (X)**
2. **Commenter agrees (A) or does not agree (D) with response.**

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
Reviewer #1: April Palmie, TCEQ									
1.	Page 4 of pdf	Attachments	Include a list of figures. In attachments list, be consistent with page numbers. Either include page numbers for everything (and correct table page numbers) or don't include page numbers for any attachments on pages 4 & 5. Please add pdf bookmarks for attachments 1 and 3-5.	C	A list of Figures will be added and figure and table page numbers will be included. Bookmarks will be added to the attachments as noted.		Most of the items listed above relate to the list of figures in comment one and my check to make sure all figure numbers were identified correctly following the changes.	C	Figure captions have been revised as noted. Refer to response to January 25, 2021 comment 2.
2.	Attachments (general)	Pdf bookmarks and formatting	Please add pdf bookmarks for Attachments where they are missing. Also, please add page numbers within the attachments where appropriate (for example on 2-number consecutive pages of a table).	C	Bookmarks will be added as requested, along with page numbers where appropriate	A			

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
3.	1.1/1	2nd Paragraph	Please clarify this sentence by including reference to 2018: TCE was reported in Upper Intermediate Zone replacement well 47WW25R, a replacement well for dry Shallow Zone well 47WW25 (installed during the first phase of the PSI), at a concentration of 120,000 µg/L.	C	A Reference to the PSI report has been added.	A			
4.	1.1.1/1	3rd and 4th Paragraphs	Please include Figures 7 and 8 from the March 2019 PSI Report (or similar new figures) and add reference the figures in these paragraphs.	C	The figures from the 2019 PSI report have been added and referenced in the text. In addition, Figure 4 has been replaced by 2 new figures showing the extent of TCE in the Shallow and Intermediate/Upper Intermediate Zones with the 2018 plumes overlaid on the 2020 plumes. The text has been revised to reference these figures.		First sentence of response, please add the figure numbers. Second sentence of response, after "two new figures" add (Figures 6 and 7).	C	The figures from the 2019 PSI report have been added as Figures 3 and 4, and are referenced in the text. In addition, the previous Figure 4 has been replaced by 2 new figures (Figures 6 and 7) showing the extent of TCE in the Shallow and Intermediate/Upper Intermediate Zones with the 2018 plumes overlaid on the 2020 plumes. The text has been revised to reference these figures. The text in Section 1.1.1 has been further revised to reference Figures 3 and 4 as well as the new Figures 6 and 7 showing the 2018 extent of TCE and perchlorate in the Shallow and Intermediate Zones.

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
5.	1.1.2/2-3	Soil and Groundwater	Add references to the relevant figures and tables.	C	Additional figure and table references have been added. As noted in response to comment 4, two new figures have been included (now Figures 6 and 7) to show the 2010 and 2019 TCE and perchlorate plumes. A reference to the 2019 PSI report has also been added.	A			
6.	1.1.2/3	1st Paragraph of GW	Revise as shown in red: Sample results were compared to the TCEQ Texas Risk Reduction Program (TRRP) Protective Concentration Level (PCL) for residential groundwater use ($^{GW}GW_{Ing}$) (TRRP PCL) and Safe Drinking Water Act (SDWA) Maximum Contaminant Levels (MCLs). Global edit: Replace any other use of $^{GW}GW_{Ing}$ in the document with TRRP PCL. For example first sentence of next paragraph becomes: Six VOCs were detected at varying concentrations, of these, ~~2~~ two compounds (acetone and toluene) were detected at low estimated concentrations well below their respective ~~GWGWIng~~ TRRP PCL.	C	The text has been revised as requested. All references have been changed to TRRP PCL.		Text was not edited exactly as requested. Please correct "residential groundwater use" to put back "($^{GW}GW_{Ing}$)" before "(TRRP PCL)". There should be one initial complete reference to the TRRP groundwater ingestion pathway. This also should not have been removed from the acronym list, just from other occurrences in the narrative. Put this back in the acronym list: $^{GW}GW_{Ing}$ Tier 1 Residential Groundwater Protective Concentration Level (PCL).	C	The text and acronym list have been revised as requested. The text has been revised as: "Sample results were compared to the TCEQ Texas Risk Reduction Program Protective Concentration Level for residential groundwater use ($^{GW}GW_{ing}$) (TRRP PCL) and Safe Drinking Water Act (SDWA) Maximum Contaminant Levels (MCLs)." $^{GW}GW_{ing}$ has also been added to the acronym list. These are the only locations in the document where this term occurs, and a global search has been completed to confirm there are no other occurrences and all references to the cleanup level reference the TRRP PCL.

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
7.	2.3/7	2nd Paragraph	Please clarify this sentence: The new monitoring existing monitoring well locations are shown on **Figure 6**.	C	The text has been clarified to state "new and existing monitoring well locations.…"	A			
8.	2.3/7	4th Paragraph	Explain the exceptions noted in this sentence: The PVC well screen was constructed with 0.01 inch slots and were 10 feet in length, with the exception of wells 47WW50, 47WW51, 47WW53, and 47WW54.	C	The text has been clarified to state that 10-foot screens were installed in the Shallow Zone wells and 5-foot screens in the Upper Intermediate Zone wells.	A			
9.	2.5/8		Please include well abandonment documentation in the report attachments.	C	The well abandonment documentation has been added to Attachment 3.	A			
10.	3.1/10	1st Paragraph	Please say DPT borings were "completed" rather than "performed"	C	All references to the DPT borings have been changed to 'completed'.	A			
11.	3.2/12		Revise last sentence to be consistent with comment 6 notes (TRRP PCLs)	C	The PCL reference has been revised as requested.	A			
12.	3.2.2/15	3rd Paragraph	Add reference to Figure 10 with the residual DNAPL discussion	C	Reference to Figure 13 (formerly Figure 10) has been added.		Correct response to Figure 19 (Figure 10 is now Figure 19). Also, add to response that this section has now been renumbered due to addition of 3.2.1 section. These comments (12 and 13) for 3.2.2 are now for 3.2.3.	C	Reference to Figure 19 (formerly Figure 10) has been added. This section has been renumbered to Section 3.2.3 due to the addition of Section 3.2.1 presenting the discussion of groundwater elevations and cross-sections.
13.	3.2.2/17	1st and 2nd paragraphs	Last sentence of first complete paragraph should reference Figure 17. 2nd paragraph describes 47WW37 which is missing from	C/D	Reference to Figure 20 (formerly Figure 17) has been added.		a. See notes for comment 12 and add "additional text has been added the last paragraph of 3.2.3 to describe the difference".	C	a. 47WW37 is an intermediate zone well, 66 feet deep, approximately 20 feet deeper than the UI wells. Combining data from

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
			isoconcentration figures. Please add location of 47WW37 and include the concentration on Figure 17. Last sentence in paragraph is confusing since order of magnitude means X 10 – 180 is several orders of magnitude less than 120,000		47WW37 is an intermediate zone well, 66 feet deep, approximately 20 feet deeper than the UI wells. Combining data from different zones may be confusing so data for this well has not been added to Figure 20 but additional text has been added to describe the difference.		b. In response to the comment note, if 47WW37 is deeper intermediate, why does the 2019 narrative say: "Well 47WW37 is screened in the Upper Intermediate Zone, solely, and does not present the same limitations when evaluating the sample results." Perhaps this sentence should also be revised. c. Regardless or the narrative changes, the physical location of this well should be shown on the shallow and upper intermediate iso-concentration figures (now Figures 19 and 20). If the data is not applicable for contour due to screening that should be explained in a note. The physical location of the well should not be omitted. The red cross well symbol is for "Inter./Upper Inter. MW" per the figure legends, which includes this well. d. Also, the order of magnitude sentence was not corrected or noted (last paragraph in 3.2.3).	C C C	different zones may be confusing so data for this well has not been added to Figure 20 but additional text has been added to the last paragraph of Section 3.2.3 (formerly Section 3.2.2) to describe the difference. b. The reference to 47WW37 in the first paragraph of Section 3.2.2 (formerly Section 3.2.1) has been revised to state that this well is screened solely in the Intermediate Zone. This is now consistent with other references and discussion about this well. c. the well location has been added to Figures 19 and 20, and a note added to the legend on Figure 20 noting the concentration is not reflected in the Upper Intermediate Zone contour. The note states: "The TCE concentration for 47WW37 is not reflected in the isoconcentration contour since this Intermediate Zone well is screened 20 feet deeper than surrounding UI Zone wells"

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
									d. The text has been revised to state that the 47WW37 TCE concentration is several hundred orders of magnitude less than that reported in 47WW25R.
14.	4.2/19	1st paragraph	Should reference Figure 17	C	The reference has been corrected to Figure 20 (formerly Figure 17).	A			
15.	4.2/20	3rd paragraph	Consider this revision for clarity: This result suggests ~~indicates~~ that the dissolved phase concentrations from the residual DNAPL ~~concentrations~~ decrease with depth.	C	The text has been revised as noted.	A			

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
16.	4.3/20		Add references to Figures 8 and 9. Highest TCE was 59.6 (fixed lab) [1st paragraph and later same section]	C/D	References to Figures 11 and 12 (formerly Figures 8 and 9) have been added. The figures include only field lab results because there is a complete data set. Fixed lab analyses were only performed for a small subset of samples (10 percent) and the results do not always correlate well as discussed in Section 3.2.3. This is due primarily to the different dilution levels used in the fixed and field labs. Adding the results from the fixed labs may introduce more confusion into the interpretation so the data have not been added to the figures. The mobile data, as presented, provides a clear picture of the level of contamination.		The narrative (3.2.4) and figures should include explanation that only field lab results were included.	C	The text in Section 4.3 has been revised to state that the posted results on Figures 11 and 12 are the field lab results for the highest concentration in the saturated or unsaturated zone.
17.	Table 1		Table 1 – fix width of water level column	C	The table formatting has been adjusted. Ft ags definition has been added to the notes.	A			
18.	Table 2		DPT-035 Add intermediate exposed screen length DPT-037 Why is the shallow water level blank?	C	DPT-037 has been noted as dry in the water level column. The Upper Intermediate exposed screen length for DPT-035 is included in the table. the Screen depth has been corrected to 39.5-49.5.	A			

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
19.	Table 4		Last column is not ft bgs. Please convert for consistency or add columns for well completion elevation.	C	The table has been corrected to indicate that groundwater elevation units are ft amsl, and a note added to define the units as feet above mean sea level.	A			
20.	Table 6		Please display results in mg/kg so the two soil tables are consistent. Or change table 5.	C	The Table 6 results have been converted to mg/kg.	A			
21.	Table 7		TRRP PCLs are updated every year. Please include reference to current year (sample year). Also this should reference Texas Risk Reduction Program (TRRP) Protective Concentration Level (PCL) for residential groundwater use	C	The PCL reference has been updated to November 2019. The PCL definition has been corrected to Protective Concentration Level.	A			
22.	Table 8		Is the methylene chloride lab contaminant? Can you add the dilution for some of-these results?	C	The laboratory data and data validation reports were reviewed to determine whether the methylene chloride can be attributed to laboratory contamination. Although there were trace detections in one lab blank and one trip blank, MC was not detected in the associated samples and no results were qualified due to blank contamination. Dilution factors are provided in the laboratory data files in Attachment 5 and reference to the detailed results has been added to table footnotes and text in Section 3.1.1.	A			

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
23.	Table 9		There is column before DPT-030 10-11 – it is unclear what these results are for (5,880 TCE). For soil tables, please pick mg/kg or µg/kg and convert accordingly. Please don't switch back and forth between tables. Recommend mg/kg soil results. Also note mg/kg is what is used in the figures. It is helpful if figures and tables are consistent within a report.	C	The extra column was incorrectly included has been deleted. All soil units in the tables have been changed to mg/kg.	A			

24.	Figures 8-9		Add the depths for the reported concentrations. Also, please explain the rationale for which result is depicted on the figures. I would expect it to be the highest but that doesn't seem to be the case (for example DPT-030 10-11 fixed lab result = 59.6 field lab = 16).	C	These are now Figures 11 and 12. Sample depths have been added to both figures as requested. The fixed lab results have not been added because there is only a small subset of samples (10 percent) with fixed lab results. Section 3.2.4 discusses the fixed/field lab data comparison and notes a lack of correlation between the paired results due mostly to differences in dilution and including both results on the figures may be more confusing. The field lab results provide a consistent data set across all samples. A Note has been added to the legend noting that the posted results represent the highest concentration for the unsaturated/saturated zone.		Comment 24 – The response says a note was added to Figure 11 and 12 regarding the posted results but it is not on the figures. Please add the note and also include the red text (or similar) "the posted results represent the highest concentration from the field lab results for the unsaturated/saturated zone".	C	The note has been added to the figures and text. The note added to Figures 11 and 12 is: "The posted results represent the maximum field laboratory concentration for each boring". The following text has been added to Section 3.1: "The posted results on Figure 11 and Figure 12 are the highest reported field laboratory concentrations for each boring in the unsaturated and saturated zones, respectively." The following has been added to the 1st paragraph in Section 4.3: "The field laboratory sample results are shown on the figure, and represent the highest concentration reported in the unsaturated zone for each boring. The field laboratory results are shown since all samples were analyzed and provide a complete data set while the fixed laboratory analysis was performed for only a subset of samples." The following has been added to the 5th paragraph in Section 4.3: "The field laboratory sample results

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
									are shown on the figure, and represent the highest concentration reported in the saturated zone for each boring. The field laboratory results are shown since all samples were analyzed and provide a complete data set while the fixed laboratory analysis was performed for only a subset of samples."
25.	Figure 10		The inset is confusing with 47WW14 shown in the top left corner. Please revise display area to remove the need for 47WW14 inset or move it to the right. Figure 17 is much easier to interpret. Please revise the title or add a note to include the date(s) of data collection depicted in the figure.	C	The inset has been moved to the right side of the figure (now Figure 19) to be consistent with the location relative to the main figure frame. The title has been revised to "2020 Shallow Groundwater TCE Iso-Concentration Contours"	A			
26.	Figures 15-17		Please revise the title or add a note to include the date(s) of data collection depicted in each figure.	C	The figure titles have been revised to note July 2020 for the Groundwater Elevation figures (now Figures 17 and 18) and to add 2020 to the iso-concentration figure (now Figure 20).	A			

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
27.	Figures Cross Sections		Thank you for the detailed cross sections. Add note of the units (TCE soil in mg/kg and groundwater in µg/L). Could soil or water results be a different color?	C	The units for soil and groundwater results are included in the notes in the legend. The colors for the groundwater and results has been changed to red and blue to differentiate from the soil results and the legend has been clarified to note the arrows indicate the sample intervals and results.		Thank you for the edits. Please consider this format (or similar) for future efforts.	C	This format will be used for future cross-sections
28.	Photo log		Please include a photo log to document field work and completed wells.	C	General site photos were not taken. Photos of the soil cores were taken and are provided in a photo log as Attachment 6		For future field efforts (at 47, 29, and 18/24), please document site activities and include a comprehensive photo log. Thank you for the explanation.	C	Site photographs will be taken during any future field efforts and provided in a photo log.
29.	Attachment 3		In Attachment 3, please increase the size of the first batch of boring logs (DPT 001-011) so they take up more space on the page. Hopefully, this will improve legibility. If not, please check figures for legibility and replace as needed. The first page of each log has illegible parts.	C	The boring logs for DPT-001 through DPT-011 have been replaced with higher resolution versions.		Much better. Please check for this type of problem on future documents as the draft version of the logs made document review difficult.	C	The format and resolution for future boring logs will be verified to be as high quality as possible.
30.	Attachment 4		Pdf pages 219-221 are in the wrong attachment	C	The pages have been removed. The drilling log and well completion forms are for 47WW24 that was installed in 2000 and was inadvertently included.	A			
25 January comments, Submitted by April Palmie via email									

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
1.	Comment Response Matrices						On the comment response matrices for EPA and TCEQ, please complete all of the information for these sections: Submitted by, Responded by, Date responded, and Reviewer # name.	C	The information has been clarified and missing information has been added to the comment-response matrices. The heading information for this table has been revised to: Document Submitted by: Rose Zeiler, - BRAC Field Manager, January 11, 2021 Comments Submitted by: April Palmie, -TCEQ, 25 January 2021 Responded by: Joy Rogalla, Phil Werner - HDR Date Responded: 2/11/2021 Similar information has been added to the EPA comment table, with the exception that no further comments were received on the Draft Final report and no other additions to the table have been made.

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
2.	Figure List						Figures list – typos to correct on Figure 4 change 2019 to 2018, Figure 11 change TCT to TCE, Figure 12 change Saturated Soil to Saturated Zone, Figures 19 and 20 add 2020 before Shallow and Upper	C	The figure captions have been revised as noted. The captions have been revised to: "Figure 4 Sample Results for Intermediate Groundwater, July and September 2018; Figure 11 PSI No. 2 Unsaturated Zone DPT TCE Soil Contour Building 46A Area; Figure 12 PSI No. 2 Saturated Zone Soil DPT TCE Soil Results Building 46A Area; Figure 19 2020 Shallow Groundwater TCE Iso-Concentration Contours Building 46A Area: Figure 20 2020 Upper Intermediate Groundwater TCE Iso-Concentration Contours Building 46A Area".
3.	Figure 7						Legend for TCE darker blue line add July 2018	C	The figure legend has been revised as requested.
4.	Section 3.1						Last sentence, Figure 8 shows locations and Figure 10 shows results. This should probably reference Figure 10.	C	The figure reference has been revised to Figure 10.

Number	Section/Page	Paragraph/Line	Comment	C,D	Response	A,D	Draft Final Comment	C,D	Draft Final Response
5.	Section 3.1.2	Pg 13, last para					2nd sentence is not complete "As shown on Figure 11, while the extent of GWP-Ind MSC exceedances indicates an elongated area of contamination approximately 500 ft long extending from southwest of Building 46A to the northeast of the building." Remove "while" or combine with the next sentence.	C	The sentence has been revised as requested.
6.	Section 4.1						First paragraph incorrectly references Figure 10, probably should be Figure 19.	C	The figure reference has been corrected to Figure 19.
7.	Section 4.3						Section 4.3, reference to Figure 12 plume but there is no iso-contour for Figure 12. Suggest adding a contour to Figure 12 or adding reference to Figure 19.	C	The figure reference has been clarified and revised to also reference Figure 19 for the Shallow Zone DNAPL plumes and Figure 12 for the saturated soil results.
8.							All other comment responses accepted.	C	Acceptance for the other comments has been noted.

Final

LHAAP-47 Post Screening Investigation Addendum No. 2 Report

for LHAAP-47, Plant 3 Area,
Solid Rocket Motor Fuel Production
Longhorn Army Ammunition Plant
Karnack, Texas

February 2021

Prepared For:

U.S. Army Corps of Engineers – Tulsa District

Prepared By:

HDR
2650 Park Tower Drive, Suite 400
Vienna, VA 22180

Contract No. W912BV-15-D-0014
Task Order No. W912BV18F0023

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Attachment 1 – Figures

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Attachment 2 – Tables

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Attachment 3 – Soil Boring and Monitoring Well Completion Logs, Well Abandonment and Registration Forms

Attachment 4 – Low Flow Groundwater Sample Logs

Attachment 5 – Data Validation Report & Raw Analytical Data Package

Attachment 6 – Photograph Log

Acronym List	
Army	United States Army
bgs	below ground surface
COC	contaminant of concern
C/UI	Clay/Upper Intermediate
DNAPL	Dense non-aqueous phase liquid
DoD	Department of Defense
DOT	Department of Transportation
DPT	direct push technology drilling
ELAP	Environmental Laboratory Accreditation Program
EPA	U. S. Environmental Protection Agency
ft	feet
FS	Feasibility Study
GC/MS	Gas chromatography/mass spectrometry
$^{GW}GW_{Ing}$	Texas Risk Reduction Program Protective Concentration Level for residential groundwater use
GWP-Ind	industrial groundwater protection MSC
GWTP	groundwater treatment plant
HSA	Hollow stem auger
IDW	Investigation derived waste
IWWP	Installation Wide Work Plan
J	estimated concentration
LHAAP	Longhorn Army Ammunition Plant
LOQ	Level of Quantitation
MCL	maximum contaminant level
MDL	method detection Limit
mg/kg	milligram per kilogram
Mg/L	Milligrams per liter
MSC	medium-specific concentrations
mV	millivolts
NELAP	National Environmental Laboratory Accreditation Program
NTU	Nephelometric turbidity unit
PAL	Project Action Limits
PCE	tetrachloroethene
PCL	Protective Concentration Level
PID	photoionization detector
PP	Proposed Plan
PSI No. 2	LHAAP-47 Interim Post-Screening Investigation Addendum No. 2

PVC	polyvinyl chloride
ROD	Record of Decision
RPD	Relative percent difference
SDWA	Safe Drinking Water Act
SVOC	semi-volatile organic compound
TAC	Texas Administrative Code
TCE	trichloroethene
TCEQ	Texas Commission on Environmental Quality
TCLP	toxicity characteristic leaching procedure
TRRP	Texas Risk Reduction Program
VC	Vinyl Chloride
VOC	volatile organic compound
°C	Degrees Celsius
µg/L	micrograms per liter
µS/cm	Micro Siemens per centimeter
1,1-DCE	1,1-dichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene

1.0 Introduction

This Post-Screening Investigation Addendum No. 2 Report (PSI No. 2) has been prepared for the former Longhorn Army Ammunition Plant (LHAAP) site LHAAP-47 (Plant 3 Area), located in Karnack, Texas (**Figure 1** and **Figure 2**). This document has been prepared under the U. S. Army Corps of Engineers Tulsa District Contract Number W912BV-15-D-0014, Task Order No. W912BV18F0023.The purpose of this investigation was to further investigate the source and extent of the high trichloroethene (TCE) concentration identified at replacement well 47WW25R installed and sampled during the PSI field activities performed between April and September 2018 (HDR, 2019).

This PSI addendum reports the results of additional investigations conducted in November 2019, and May through July 2020, and provides a summary of the results of the initial PSI conducted in 2018. The PSI No. 2 activities focused on the area near Building 46A where Upper Intermediate Zone well 47WW25R is located.

The PSI No. 2 field efforts were conducted in accordance with procedures outlined in relevant sections of the Installation Wide Work Plan (IWWP) (AECOM, 2014); specifically those procedures for conducting direct push technology drilling (DPT), groundwater sample collection, soil sample collection, handling and laboratory analyses, decontamination, handling and disposal of investigation derived waste (IDW), and surveying. The IWWP was reviewed by and concurrence was obtained from the Texas Commission on Environmental Quality (TCEQ) and the U.S. Environmental Protection Agency (EPA). The initial PSI field efforts were conducted in accordance with the *Post-Screening Investigation Work Plan LHAAP-47, Plant Area 3 Longhorn Army Ammunition Plant* (AECOM, 2016). The PSI No. 2 November 2019 field efforts were conducted in accordance with the *Final Post Screening Investigation Addendum No. 2 Work Plan, LHAAP-47 Building 46A, Plant 3 Area, Solid Rocket Motor Fuel Production, Longhorn Army Ammunition Plant Karnack, Texas* (HDR, 2019a). The PSI No. 2 May through July 2020 field efforts were conducted in accordance with the *Final Post Screening Investigation Addendum No. 2 Work Plan Addendum, LHAAP-47 Building 46A, Plant 3 Area, Solid Rocket Motor Fuel Production Longhorn Army Ammunition Plant Karnack, Texas (*HDR, 2020).

1.1 Background

Prior to 2018, the most recent samples collected at LHAAP-47 were collected in 2009 and 2010 to support development of the Feasibility Study (FS) alternatives. Following preparation of the FS, a Proposed Plan (PP) was completed in 2012 (AECOM, 2012), and a Record of Decision (ROD) was completed to the Draft Final Version in 2013 (AECOM, 2013). The ROD completion was delayed until resolution of a dispute between the U.S. Army (Army) and EPA. At that point, the Army determined that due to aging and limited data, additional data were required to support preparation of the Final ROD. The PSI was planned to re-assess and update groundwater contaminant levels for Shallow and Intermediate Zone groundwater.

During the groundwater investigations in 2009 and 2010 that included the collection of groundwater samples around Building 46A, the results showed TCE concentrations of 13,900 micrograms per liter (µg/L) at DPT boring 47DPT14 (completed in the Shallow Zone) and 13,300 µg/L at well 47WW25. TCE was reported in Upper Intermediate Zone replacement well 47WW25R, a replacement well for dry Shallow Zone well 47WW25 (installed during the first

phase of the PSI), at a concentration of 120,000 µg/L (HDR, 2019). Follow up investigations were conducted in 2019 and 2020 to identify the source of TCE and further define the extent of contamination in the vicinity of Building 46A. The results of these follow up investigations are reported in this document. This data will be used to supplement the historical data, as necessary to re-assess TCE in Shallow Zone and Upper Intermediate Zone groundwater, to update the FS to identify additional technologies that may be appropriate to remediate the TCE source area, and to inform the ROD prior to its finalization.

1.1.1 2018 PSI Results

The results of the initial PSI field effort that was conducted in 2018 provided a snapshot of subsurface contamination throughout the site, and sampling of groundwater at multiple borings and monitoring wells. Perchlorate, metals, Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), and explosives are considered Contaminants of Concern (COCs) for the LHAAP-47 site, and groundwater samples were analyzed for these contaminants. From historical data, perchlorate and VOCs are known to be the most prominent contaminants at the site. A summary of the initial PSI results and findings is provided below. the results were reported in the PSI Report and detailed tables, figures and discussion are provided in that document (HDR, 2019)

The extent of contamination was re-evaluated based on the results of the initial phase of the PSI. Although extensive contamination remains at the site, the spatial extent of contamination in the Shallow and Intermediate Zone groundwater has changed. The majority of groundwater contamination now occurs within the Upper Intermediate Zone. **Figure 3** and **Figure 4** show the locations of monitoring wells and the extent of VOC and perchlorate plumes in 2018 in the Shallow and Upper Intermediate Zone groundwater, respectively.

The initial PSI conducted in 2018 indicated that a decline in water levels resulted in a large portion of the Shallow Zone going dry (**Figure 5**). As a result, the VOC extent of contamination in the Shallow Zone was substantially reduced when compared to the 2010 results. The contours indicating the extent of contamination in 2010 were presented in the 2011 FS. This change is evident as shown on **Figure 6**, showing the perchlorate plumes identified during previous investigations no longer exist and the TCE plume is much smaller. Based on the 2018 results, the extent of groundwater contamination in the Shallow Zone now consists of a single, small VOC plume in the vicinity of LHSMW44 and LHSMW45. **Figure 3** shows that the maximum extent of VOC contamination in the Shallow Zone is defined by TCE. Vinyl Chloride (VC) and cis-1.2-dichloroethene (DCE) were also detected in Shallow Zone well LHSMW45.

Due to the lack of groundwater in the Shallow Zone, replacement wells for dry Shallow Zone wells were completed through the sand-laminated clay underlying the Shallow Zone and into the Upper Intermediate groundwater zone (this zone is referenced as C/UI Zone) These replacement wells provided additional data points to define the contaminant plumes. Two separate VOC plumes depicted in 2010 (presented in the 2011 FS) are now shown to be connected as a result of analytical data obtained from replacement well 47WW11R (**Figure 7**). The eastward extent of contamination remains similar to that of 2010. The results of replacement wells 47WW11R and LHSMW43R also define the presence of an additional small perchlorate plume not defined by the 2010 data. **Figure 4** shows the maximum extent of VOC contamination in the Upper Intermediate/Intermediate Zone is defined by TCE, with smaller 1,2-

DCE, VC, cis-1,2-DCE, and tetrachloroethene (PCE) plumes within the maximum extent of the TCE plume.

The groundwater gradient in the Intermediate Zone has been verified to flow to the northeast toward Caddo Lake. The identified contaminant plumes reflect this in their orientation and shape.

1.1.2 2019 PSI Results

Soil Results - Eleven soil borings were completed and 33 soil samples were collected during this PSI field effort. All soil samples were analyzed for VOCs using EPA method SW8260B. Soil samples were collected to identify if a TCE source is present and identify the extent of TCE contamination in soil adjacent to Building 46A. This data will be used to supplement the historical data, as necessary, and to re-assess TCE in Upper Intermediate Zone groundwater to inform the ROD prior to its finalization. Through review of historical data, it was determined that the vadose (unsaturated) zone would be defined uniformly as 23 ft bgs. Based on this definition, all except 2 (the shallowest samples from DPT-006 and DPT-011) of the soil samples were collected deeper than 23 ft bgs and are considered to be within the saturated zone. For samples collected from the unsaturated zone, the results were compared to the TCEQ soil medium-specific concentrations (MSCs) for industrial use based on groundwater protection (GWP-Ind). The results for these borings are further discussed in **Section 3.1**, and tables and figures presenting the data are provided as part of that discussion.

Fourteen VOCs were detected at varying concentrations, of these, 10 compounds were detected at low, estimated concentrations. The remaining four VOCs with detectable concentrations above the method detection limit (MDL) included 1,1-DCE, cis-1,2-dichloroethene (cis-1,2-DCE), TCE, and VC. TCE was the most prevalent compound, and detected concentrations ranged from a high of 15.8 milligrams per kilogram (mg/kg) to a low of 0.0039 mg/kg. Boring locations with the highest detected TCE concentrations included DPT-003 (15.8 mg/kg at 29 – 30 ft bgs), DPT-007 (15.6 mg/kg at 31 – 32 ft bgs), DPT-001 (11.8 mg/kg at 27 – 28 ft bgs), DPT-004 (8.37 mg/kg at 28 – 29 ft bgs), DPT-010 (4.1 mg/kg at 32 – 33 ft bgs), and DPT-011 (3.81 mg/kg at 27 – 28 ft bgs). Based on these results, the depth interval with the highest TCE concentrations is between 27 and 33 ft bgs and centered on borings DPT-001, DPT-003, DPT-004, and DPT-007. Of the 2 unsaturated zone samples, the 22-23 ft bgs sample from DPT-011 exceeded the GWP-Ind MSC of 0.5 mg/kg, with a concentration of 1.1 mg/kg. The sample collected from DPT-006 from 20-21 ft bgs had a detected TCE concentration of 0.0684 mg/kg, less than the GWP-Ind MSC.

A more detailed discussion of the 2019 results is presented in **Section 3.1.**

Groundwater results - Groundwater samples were collected from all eleven DPT borings and wells 47WW25R and 47WW37 for VOC analysis, and from DPT borings DPT-001, DPT-005, and DPT-010, and well 47WW09 for 1,4-dioxane analysis. Samples from DPT-001 through DPT-011 and 47WW25R were collected from a screened interval set in the lower part of the laminated clay/sand unit and extended into the Upper Intermediate Zone sand layer (C/UI). All groundwater samples analyzed for VOCs were tested using EPA method SW8260B, while the

1,4-dioxane samples were analyzed using EPA method SW8270D. Sample results were compared to the TCEQ Texas Risk Reduction Program Protective Concentration Level for residential groundwater use ($^{GW}GW_{ing}$) (TRRP PCL) and Safe Drinking Water Act (SDWA) Maximum Contaminant Levels (MCLs). Groundwater samples were collected to confirm an anomalously high concentration of TCE reported in well 47WW25R and to assess TCE concentrations in the UI Zone around Building 46A. This data will be used to supplement the historical data, as necessary, and to re-assess TCE in Upper Intermediate Zone groundwater to inform the ROD prior to its finalization.

Six VOCs were detected at varying concentrations, of these, two compounds (acetone and toluene) were detected at low estimated concentrations well below their respective TRRP PCL. The remaining four VOCs included cis-1,2-DCE, methylene chloride, TCE, and vinyl chloride (VC). The compound 1,4- dioxane was detected in one of the four samples collected for analysis. The following discussion focuses on these four compounds and the 1,4-dioxane detection. The VOC TCE was the most prevalent compound detected: all 14 samples analyzed had a detectable concentration above the MDL that exceeded the MCL of 5 µg/L. Concentrations ranged from a low estimated (J) value of 29 J µg/L to a high of 140,000 µg/L. Well 47WW25R had the highest concentrations of TCE at 140,000 µg/L, confirming the sample result from this well during the 2018 PSI (HDR, 2019). Well 47WW37 had a detected concentration of 190 µg/L, higher than the 29.4 µg/L detected in 2010. Well 47WW37 is located approximately 40 feet to the south of 47WW25R and is screened in the Intermediate Zone groundwater at 61 ft bgs. Boring locations with the highest detected concentrations included DPT-007 (77,000 µg/L), DPT-008 (36,000 µg/L), DPT-011 (22,000 µg/L), DPT-010 (18,000 µg/L), and DPT-005 (5,400 µg/L). Based on these results, the highest TCE groundwater concentrations appear to be centered on well 47WW25R and borings DPT-005, DPT-007, DPT-008, DPT-010, and DPT-011. When comparing the groundwater to the soil TCE results, only soil samples taken from DPT-007, DPT-010, and DPT- 011 had relatively high TCE concentrations.

The concentrations of TCE in groundwater near Building 46A are sufficiently high to indicate the possible presence of residual dense non-aqueous phase liquid (DNAPL) within the saturated zone. As noted in *An Introduction to Characterizing Sites Contaminated with DNAPLs* (ITRC, 2003), "one indication of the presence of DNAPL in the saturated zone in a monitoring well with a long well screen (at least 10 ft long), is that the concentration of the contaminant is greater than one to ten percent (1-10%) of the compound's effective solubility." Based on this definition, the estimated DNAPL threshold concentration for TCE is 11,000 µg/L. While this "rule of thumb" is not a conclusive indication of DNAPL, the reported concentrations of TCE near Building 46A indicate the potential presence of residual DNAPL. A TCE concentration of 10,000 µg/L was used as a conservative estimate for evaluating the presence of residual DNAPL for the PSI data.

A more detailed discussion of the 2019 results, including tables and figures is presented in **Section 3.2.**

2.0 Field Investigation Activities

This section describes the activities and methods used to perform soil sampling and analyses, groundwater sampling and analyses, surveying, and IDW management and disposal for PSI field activities completed in November 2019 (2019) and between May and July 2020 (2020).

2.1 DPT Advancement: Soil Sampling and Analyses

Soil borings installed in 2019 were advanced using a GeoProbe 7730 DT rig fitted with 5 foot Macro-cores® lined with acetate sleeves and completed at depths between 34 and 44 ft bgs, several feet into the Upper Intermediate Zone sand. Three soil samples were collected from each boring at varying depths and analyzed for VOCs. All soil samples were analyzed by EPA Method SW8260B. Method 8260B is a gas chromatography/mass spectrometry (GC/MS) analytical method used to determine VOCs in a variety of solid waste matrices, and was used by the mobile and stationary labs. Confirmation soil samples (and groundwater) were collected at a rate of 10 percent and sent to a fixed laboratory (MicroBac Laboratories) to correlate the mobile laboratory results. The mobile lab (PACE Analytical) is accredited under the Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP) and TCEQ National Environmental Laboratory Accreditation Program (NELAP) programs. The samples were generally collected at the bottom of the upper sand (i.e. Shallow Zone), the middle of the upper clay, and the contact between the base of the clay and top of the lower sand; depths to these contacts varied between boreholes. Note: the middle of the upper clay and base of the clay are within the C/UI Zone.

After the core barrel was advanced to the target depth, the rods and core barrel were removed from the borehole. The acetate sleeve containing the soil core was then removed from the sample barrel and screened using a calibrated photoionization detector (PID). The VOC soil samples were collected using Terra Core™ kits based on the sample depth criteria listed above. Soil cores were then logged using the Unified Soil Classification System Standard Practice for Classification of Soils. Boring logs are provided in **Attachment 3**. A photo log showing the soil cores is provided as **Attachment 6**.

The DPT sampling equipment was decontaminated after each interval to prevent cross contamination. Decontamination water was containerized and disposed at the groundwater treatment plant (GWTP). Excess soil cuttings not collected for a sample were containerized in Department of Transportation approved 55-gallon open-top drums and left adjacent to the borehole until categorized as either hazardous or non-hazardous. One composite sample was collected and analyzed using the toxicity characteristic leaching procedure (TCLP) for VOCs, SVOCs, herbicides, pesticides, and metals/mercury, as well as ignitability, corrosivity, and reactivity; all results came back negative for hazardous characteristics and the soil was spread adjacent to the pertinent boring in accordance with the IWWP.

The DPT borings completed in 2020 were advanced using a GeoProbe 7822DT Rig to between 31 and 51 ft bgs. Twenty-seven borings were drilled and 4 soil samples were collected with the exception of 1 boring, which had 6 samples, and analyzed for selected VOCs in a field laboratory. Ten samples were selected for fixed laboratory analysis for a full suite of VOCs. The same sample collection and decontamination procedures were followed as for the 2019 samples. The 2020 DPT boring logs are provided in **Attachment 3**.

The DPT boring locations for 2019 and 2020, and historic DPT and soil boring locations are presented in **Figure 8**. Details of the DPT boring depths, groundwater zone, and water table elevations are provided in **Table 1 and Table 2**. The list of analytes, number of samples collected, and methods used for both investigations are provided in **Table 3.**

2.2 Temporary Well Installation and Groundwater Sample Collection

Temporary wells were installed at the DPT locations as specified in the *Final Post Screening Investigation Addendum No. 2 Work Plan, LHAAP-47 Building 46A, Plant 3 Area, Solid Rocket Motor Fuel Production, Longhorn Army Ammunition Plant Karnack, Texas* (HDR, 2019a) and *Final Installation-Wide Work Plan for Longhorn Army Ammunition Plant* (AECOM, 2014).

Temporary 1-inch polyvinyl chloride (PVC) wells with 10-foot screens and 0.01-inch slot size were installed in each 2019 DPT boring.

For the 2019 field effort, the screens were set at a depth that intercepted the clay unit (C/UI Zone) underlying the Shallow Zone sand extending into the Upper Intermediate Zone sand an average of approximately 5 feet. The well was then allowed to equilibrate over 10 to 24 hours.

One discrete grab groundwater sample was collected from each DPT boring using 0.5-foot bailers. One sample collected at well 47WW25R was collected at a depth consistent with the pump intake depth for the 2018 sample from 47WW25R, that is, at the base of the clay unit (35 ft bgs), while the second sample was collected at 38 ft bgs, two-feet above the boring termination depth. All samples collected from the temporary wells were analyzed for VOCs, while samples collected from DPT borings DPT-001, DPT-005, and DPT-010 were also analyzed for 1,4-dioxane. Groundwater samples were collected from wells 47WW25R and 47WW37 for VOCs analyses, and from 47WW25R and 47WW09 for 1,4-dioxane analysis. Samples collected for 1,4-dioxane analyses were to confirm the compound remains a COC based on historical sampling result at 47WW09 in 2015 of 27.4 ug/L and 47WW25R's high TCE concentration, which is an indicator for the potential presence of 1,4-dioxane.

The wells were purged using low flow techniques using a variable speed submersible bladder pump. IDW purge water was collected in 5-gallon buckets and disposed at the GWTP. Prior to purging the monitoring wells, water level measurements were collected and recorded. Purging was considered complete when measurements of temperature, pH, electrical conductivity, turbidity, dissolved oxygen and redox potential stabilized. Stabilization was defined as follows: 1) temperature ±10% degrees Celsius (°C); 2) pH ±0.1 units; 3) electrical conductivity ±3% micro Siemens/centimeter (µS/cm); 4) turbidity ±10% and <50 Nephelometric Turbidity Units (NTUs); 5) dissolved oxygen ±10% milligrams per liter (mg/L); and 6) redox potential ±10 millivolts (mV). With the exception of turbidity, measurements were collected using an inline flow cell and YSI 556 water quality meter. Turbidity was collected separately using a Hanna turbidity meter. Stabilization parameters and purge volumes from each well were recorded and are provided in **Attachment 4**.

For the 2020 DPT borings, shallow temporary wells were installed first to the target depth and samples collected. The DPT rig was then offset several feet and subsequently the Upper Intermediate borings were advanced. The Upper Intermediate Zone temporary wells were installed using a dual tube method to ensure that the Shallow Zone would be isolated from the deeper zone. For the Upper Intermediate Zone temporary wells, the larger diameter set of rods

was driven through the confining clay unit into the Upper Intermediate Zone sand to serve as an outer casing. Temporary 1-inch PVC wells with 10 foot screens and 0.01-inch slot size were then installed inside the inner rod. The inner rod was then pulled back to expose only the length of screen that penetrated into the Upper Intermediate Zone sand layer and at least one foot below the overlying confining clay unit. The exposed screen lengths are indicated in **Table 2**.

Borings with both Shallow and Upper Intermediate Zone temporary wells included DPT-015, DPT-016, DPT-017, DPT-018, DPT-019, DPT-020, DPT-021, DPT-022, DPT-023, DPT-024, DPT-026, DPT-028, DPT-029, DPT-032, DPT-033, and DPT-035. Several temporary wells in the Shallow zone were dry and samples were not collected; these include borings DPT-014, DPT-018, DPT-020, DPT-021, DPT022, DPT-028, DPT-036 and DPT-038. Borings with solely Shallow zone temporary wells include DPT-012, DPT-013, DPT-014, DPT-025, DPT-027, DPT-030, DPT-030, DPT-031, DPT-034, DPT-036, and DPT-037. **Table 2** presents the 2020 temporary well installation details. Groundwater samples were collected from each screened interval and analyzed in a field laboratory for selected VOCs. Four samples were collected and submitted for fixed laboratory analysis for the full suite of VOCs (refer to **Table 3**).

2.3 Monitoring Well Installation

Eight monitoring wells were installed between 23 June and 16 July 2020. Four wells were installed in the Shallow Zone, and 4 in the Upper Intermediate Zone. The Work Plan specified that the Upper Intermediate Zone wells were to be completed so that the top of the open interval was no less than one foot below the sand-laminated clay. Per the Work Plan, one Shallow Zone well was to be installed to replace 47WW25R and completed several feet into the underlying clay no deeper than two feet above the Upper Intermediate Zone sand; five Upper Intermediate Zone wells were to be installed to a maximum depth of 50 ft bgs with the top of the screens a minimum of 2 feet below the clay unit (a minimum of one, but up to two of these Upper Intermediate Zone wells were planned to be installed as Shallow Zone wells depending on data results); one Intermediate Zone well was to be installed to approximately 60 ft bgs; and one deep well was to be installed to 120 ft bgs. Based on discussions during the field investigation, agreement was reached with TCEQ and EPA that 4 Shallow Zone, 4 Upper Intermediate Zone wells would be installed rather than the planned depths identified in the Work Plan.

Shallow Zone wells include 47WW48, 47WW49, 47WW52, and 47WW55, while Upper Intermediate Zone wells include 47WW50, 47WW51, 47WW53, and 47WW54. Monitoring well 47WW25R was abandoned, replaced by 47WW49. The exploratory borings were advanced to identify depth of the underlying clay layer to determine well depths. The new and existing monitoring well locations are shown on **Figure 9**.

Monitoring wells 47WW48 through 47WW53 and associated exploratory borings were drilled using the Geoprobe 3230DT Hollow Stem Auger (HSA) rig. Monitoring wells 47WW54 and 47WW55 were drilled using the Geoprobe 8150LS sonic rig. The monitoring wells were installed in the annulus of the HSA of the 3230DT rig and inside the telescoping drill stem of the sonic rig to limit any drag-down of contamination. Well installation and development was performed following the procedures specified in the IWWP (AECOM, 2014). The well drilling and completion logs and well registration forms are provided in **Attachment 3**.

Each well was constructed with flush-joint threaded, schedule 40 PVC. The PVC well screen was constructed with 0.01 inch slots and were 10 feet in length, for the Shallow Zone wells. Five-foot screens were installed in Upper Intermediate Zone wells 47WW50, 47WW51, 47WW53, and 47WW54. The 5 foot screens were installed to monitor the upper part of the Upper Intermediate Zone and were placed in the sand unit underlying the multi-layered clay/silt layer separating the Shallow and Upper Intermediate Zones. A threaded PVC bottom cap was secured to the bottom of the screen interval. Solid PVC casing was installed from the top of the screen interval to approximately three feet above surface grade. A filter pack consisting of clean silica sand (20 to 40 size) was placed in the auger or drill stem annulus from the well bottom to approximately two feet above the screen interval. A two to three foot thick bentonite seal (pellets or chips) was placed above the sand filter pack and hydrated with portable water. The annular space from the top of the bentonite seal to the surface was filled with a bentonite-cement grout.

For the Intermediate Zone wells, the Shallow Zone groundwater was isolated using a suitable diameter schedule 40 PVC casing. The casing was installed from the surface grade to the top of the clay unit separating the Shallow Zone and Upper Intermediate Zone. The depths to the clay units were between 30 and 37 ft bgs. Upon grouting and setting of the surface casing, drilling proceeded into the intermediate zone.

The drilling equipment was decontaminated prior to the arrival at the site and between wells. Upon completion of drilling activities the drilling equipment was decontaminated prior to demobilizing and leaving the installation. Decontamination water was containerized and disposed at the GWTP. Excess soil cuttings not collected for a sample were containerized in Department of Transportation (DOT) approved 55-gallon open top drums and left adjacent to the borehole until categorized as either hazardous or non-hazardous.

Well surface completions were constructed for each monitoring well installed. Surface completion consists of a protective steel casing, with a hinged, lockable lid set in a concrete pad. Concrete-filled steel bollards were installed at the corners of the concrete pads. The monitoring wells and surface completions were installed in accordance with State of Texas requirements by a drilling subcontractor (Walker-Hill) licensed in the State of Texas. The monitoring wells comply with applicable technical requirements of 30 Texas Administrative Code (TAC) Chapter 76. State of Texas Well Reports were submitted to the Texas Department of Licensing and Regulation for each well installed. **Table 4** presents the monitoring well installation details.

Well development was performed by pumping and gentle surging of the screened interval. A minimum of three well borehole volumes of water was removed. The volume of groundwater removed from each well was calculated from the static water level measurement referenced from the top-of-casing. An electronic interface probe was used to measure the water levels.

Water quality parameters (temperature, pH, electrical conductivity, dissolved oxygen, and turbidity) were monitored during development. Development continued until the water quality parameters stabilized and the water was visually clear. Decontamination water was containerized and disposed at the GWTP.

One groundwater sample was collected from each newly installed well and sent to a fixed laboratory for analysis. The wells were purged using low flow techniques. Prior to purging the

monitoring wells, water level measurements were collected and recorded. Purging was considered complete when measurements of temperature, pH, electrical conductivity, and turbidity stabilized. Stabilization was defined as follows: 1) temperature ±10% °C; 2) pH ±0.1 units; 3) electrical conductivity ±3% µS/cm; and 4) turbidity ±10%. With the exception of turbidity, measurements were collected using an inline flow cell. Turbidity samples were collected separately and measured using a turbidity meter. Purge volume from each well was recorded. Again, purge water was containerized and disposed at the GWTP.

Once the groundwater samples were collected they were sent to the analytical laboratory (Microbac Laboratories, Inc.) for analysis of VOCs utilizing EPA Method SW8260B. Sample collection and handling was conducted in accordance with the IWWP (AECOM, 2014). The low-flow sampling logs are provided in **Attachment 4**.

2.5 Well Abandonment

After sampling, well 47WW25R was plugged and abandoned on June 16, 2020 in accordance with the District Rules, Pineywoods Groundwater Conservation District and pertinent requirements of 30 TAC 76.1004 and 30 TAC 76.1005. The well was open a few feet into the overlying clay confining unit (C/UI), which is believed to contain residual TCE DNAPL. Therefore, concentrations of TCE observed at 47WW25R may not be representative of groundwater in the Upper Intermediate Zone and the potential for cross contamination existed, and abandoning the well was deemed necessary. In general, the well was abandoned in place by grouting from bottom to top with a cement-bentonite grout. When completed, a well abandonment report and notice required by the Texas Water Development Board and Texas Department of Licensing and Regulation was prepared and submitted. The well abandonment documentation is provided in **Attachment 3**.

2.4 Surveying

HDR collected the horizontal coordinates (northing and easting) at each borehole location using a Trimble Global Positioning Unit. The data, based on the North American Datum of 1983, was used to develop geospatially referenced site maps and to update existing cross-sections provided in **Attachment 1**.

A professional land surveyor licensed in the State of Texas surveyed the locations and elevations of the newly installed monitoring wells. The horizontal coordinates (northing and easing) of the wells were surveyed to the nearest foot based on the North American Datum of 1983. The vertical elevations of the top of the wells (top-of-casing) were based on the North American Vertical Datum of 1988 and were surveyed to the nearest 0.01 feet at a reference point (i.e., groove or marking on the north side of the well casing) used to collect water level measurements. The ground surface elevation at each well location was surveyed to the nearest 0.1 foot.

3.0 Investigation Findings

3.1 Soil Sample Results

Eleven DPT borings were completed and soil samples collected during the 2019 field activities. Soil sample locations and collection procedures described in the IWWP (AECOM, 2014) and *Final Post Screening Investigation Addendum No. 2 Work Plan, LHAAP-47 Building 46A, Plant 3 Area, Solid Rocket Motor Fuel Production, Longhorn Army Ammunition Plant Karnack, Texas* (HDR, 2019a). Based on the results, additional borings were determined necessary to delineate the extent of VOC contamination in the vicinity of Building 46A, so an additional 27 DPT borings were completed and soil samples collected during the 2020 field activities as described in the *Final Post Screening Investigation Addendum No. 2 Work Plan Addendum for LHAAP-47, Plant 3 Area* (HDR, 2020). This data will be used to supplement the historical data, as necessary, and to re-assess TCE in Shallow Zone, C/UI, and Upper Intermediate Zone groundwater to inform the ROD prior to its finalization.

Existing data were evaluated to determine the historical depth to groundwater and depth of the unsaturated zone. A uniform depth of 23 ft bgs was determined to represent the depth of the unsaturated zone soil to be used to evaluate the PSI data. Soil samples were collected from both the saturated and unsaturated zone during the PSI No. 2 investigations, however only the results from less than 23 ft bgs are considered to represent unsaturated soil and the results were compared with the GWP-Ind MSC to identify locations with exceedances. Since the samples from depths greater than 23 ft bgs are within the saturated zone, those results are considered to be associated with groundwater contamination. **Figure 8** shows all Addendum 2 DPT locations, and the results are shown on **Figure 10**.

3.1.1 2019 Soil Sample Results

Eleven soil borings were completed and 33 soil samples collected during the 2019 field investigation (**Figure 10**). All soil samples were analyzed for VOCs using EPA method SW8260B. Sample results from depths to 23 ft bgs were compared to the TCEQ MSCs for industrial use, GWP-Ind. Soil samples were collected to identify if a TCE source is present and identify the extent of TCE contamination in soil adjacent to Building 46A.

Fourteen VOCs were detected at various concentrations, of these, 10 compounds were detected at low estimated concentrations. The remaining four VOCs with detectable concentrations above the MDL included 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), TCE, and vinyl chloride. The following discussion focuses on these four compounds.

Trichloroethene was the most prevalent compound detected: 24 out of 33 samples analyzed had a detectable concentration above the MDL, while another 5 samples had estimated values. The remaining 14 detections were from the saturated zone soil samples ranged from a high of 15.8 mg/kg to a low of 0.000894 mg/kg. Boring locations with the highest detected concentrations included DPT-003 (15.8 mg/kg at 29 – 30 ft bgs), DPT-007 (15.6 mg/kg at 31 – 32 ft bgs), DPT-001 (11.8 mg/kg at 27 – 28 ft bgs), DPT-004 (8.37 mg/kg at 28 – 29 ft bgs), DPT-010 (4.1 mg/kg at 32 – 33 ft bgs), and DPT-011 (3.81 mg/kg at 27 – 28 ft bgs). Based on these results, the depth interval with the highest TCE concentrations are within the saturated soil in the clay unit between 27 and 33 ft bgs and centered on borings DPT-001, DPT-003, DPT-

004, and DPT-007. This is the clay with fine sand lamination above the Upper Intermediate Zone. As shown in the boring logs in **Attachment 3**, the lithology for this depth range is predominantly clay, interspersed with thinner lenses of sand and silt.

The VOCs 1,1-DCE, cis-1,2-DCE, and vinyl chloride were all detected at concentrations above their respective MDLs. Cis-1,2-DCE was the second most prevalent VOC detected in soil samples. In the saturated zone samples, cis-1,2-DCE concentrations ranged from a low of 0.00426 mg/kg to a high of 0.285 mg/kg. Vinyl chloride was detected in 11 samples above the MDL, with a range between 0.00456 mg/kg and 0.0103 mg/kg. The VOC 1,1-DCE was reported in 16 samples at concentrations that ranged from a low of 0.00188 mg/kg to a high of 0.00894 mg/kg.

Two of the samples, the shallowest samples from DPT-006 (0.0684 mg/kg) and DPT-011 (1.1 mg/kg) were collected from depths less than 23 ft bgs and are from the unsaturated zone. The DPT-011 sample had TCE concentrations that exceeded the GWP-Ind of 0.5 mg/kg. In addition to TCE, cis-1,2-DCE was detected in the two unsaturated zone samples at concentrations well below the GWP-Ind MSC. No other VOCs were detected in the unsaturated zone samples.

Fixed laboratory analytical results for the soil samples are presented in **Table 5**, while the raw analytical data packages and data validation report are provided in **Attachment 5**. Note: Soils were analyzed without dilution, and reanalyzed at dilution for high concentration analytes. The undiluted soil reporting limits (as Levels of Quantitation (LOQs)) were below the project action limits (PALs), which are the TCEQ GWP-Ind MSC. The laboratory data files provided in **Attachment 5** include additional details for the analyses, including sample-specific dilution factors, detection limits, limits of quantitation and detection, quality control samples and results, and other analytical information such as extraction and analysis dates.

3.1.2 2020 Soil Sample Results

Twenty seven soil borings were completed during the 2020 field effort. Four samples were collected from each boring with the exception of DPT-027 which had 6 samples collected. In total, 110 soil samples were collected and analyzed during the 2020 field effort. All soil samples were analyzed in a field laboratory for 8 selected VOCs using EPA method SW8260B. Ten samples were selected for fixed laboratory analysis by EPA Method SW8260B. Results for samples collected from the unsaturated zone (up to 23 ft bgs) were compared to the TCEQ soil MSCs for industrial use based on groundwater protection, GWP-Ind. The DPT boring locations expanded outward in all directions from the 2019 DPT locations, primarily to the north and east. The initial 2020 boring locations were selected based on the results from samples collected from the 2019 borings, and the subsequent locations were selected based on review of the field analysis results with concurrence of the regulators. The objective of these borings was to further define the extent of TCE contamination and to determine if the unsaturated soil (depths less than 23 ft bgs) overlying the historical high groundwater levels in the Shallow Zone in this area have been impacted. TCE is the target compound and is the primary focus of the discussion of results and represented in figures. The analytical results for the 2020 soil samples are provided in **Table 5** (fixed laboratory results) and **Table 6** (field laboratory results). The TCE results and boring locations are shown on **Figure 10**.

TCE and cis-1,2-DCE were the only analytes detected in the field laboratory results. Cis-1,2-DCE was detected in 6 unsaturated zone samples, with concentrations ranging from 0.034

mg/kg to 0.074 mg/kg, well below the GWP-Ind MSC of 7 mg/kg. TCE was detected in 20 unsaturated zone samples from 9 borings, with concentrations ranging from 0.027 mg/kg to 16 mg/kg. Ten of the reported concentrations from 5 borings exceeded the GWP-Ind MSC of 0.5 mg/kg.

DPT-013 was located within the existing extent of saturated zone TCE contamination determined based on the 2019 DPT results. The sample from 20-21 feet bgs had a TCE concentration of 0.5 mg/kg. This boring was located near DPT-007 that was completed in 2019, and showed one of the highest concentrations reported to date of 15.6 mg/kg at 31-32 ft bgs. DPT-012 and DPT-014 were also located within the previously identified area of contamination near Building 46A and were adjacent to previous saturated zone borings DPT-003 and DPT-011. TCE was not detected in the unsaturated zone samples from either of these borings. The 25-26 ft sample from DPT-014 showed TCE at 0.63 mg/kg, less than the concentrations reported in the DPT-011 samples from this depth range (between 1.1 mg/kg and 3.81 mg/kg). The results for DPT-013 indicated that there are TCE concentrations at the MSC in the unsaturated zone overlying higher TCE concentrations in the saturated zone.

Other borings with unsaturated zone sample exceedances included DPT-030 and DPT-031, both located to the southwest of Building 46A. The exceedances in DPT-030 occurred in samples collected from shallower depths, 16 mg/kg in the 10-11 ft bgs sample, and 7.9 mg/kg in the 15-16 ft bgs sample. TCE was not detected in the two deeper samples from this boring. DPT-031 was located further southwest of DPT-030 and Building 46A and showed increasing concentrations with depth, from .065 mg/kg and .027 mg/kg in the samples from 3-4 ft bgs and 12-13 ft bgs. The sample from 16-17 ft bgs showed TCE at 0.560 mg/kg, and the deepest sample from 21-22 ft bgs showed TCE at 2.0 mg/kg. These results extend the area of TCE contamination to approximately 100 ft to the south/southwest of Building 46A.

The remaining 2 borings that had unsaturated zone samples with TCE concentrations exceeding 0.5 mg/kg included DPT-028, and DPT-033, located east and northeast of Building 46A. The exceedances in these borings indicate that the extent of TCE contamination exceeding the GWP-Ind MSC extends approximately 200 ft further to the east/northeast of the previously defined extent. DPT-028 and DPT-033 had TCE concentrations greater than 0.5 mg/kg in one or two of the deepest samples from each boring, DPT-028 had TCE detected in all 4 samples, but only the two deepest samples from 16-17 ft bgs and 21-22 ft bgs samples had concentrations that exceeded 0.5 mg/kg (1.3 mg/kg and 3.3 mg/kg, respectively). DPT-033 had TCE reported at 0.52 mg/kg in the 19-20 ft bgs sample and 1.7 mg/kg in the 22-23 ft bgs sample.

The remaining outlying DPT borings in all directions from Building 46A did not have TCE detected or the reported concentrations in the unsaturated zone were less than 0.5 mg/kg, and the extent of TCE concentrations exceeding the GWP-Ind MSC of 0.5 mg/kg has been defined. The highest TCE concentrations reported in the unsaturated soil are orders of magnitude less than the EPA guidance that concentrations of chemicals in soil greater than 1% by mass or 10,000 mg/kg may indicate the presence of DNAPL (EPA, 1994). This indicates that there is not a point source of residual TCE DNAPL in the unsaturated zone, or that it is a small, localized area not located by the DPT borings.

Saturated zone samples were collected from 7 borings, and TCE was reported in 6 of these samples, the deepest samples from each boring, at concentrations ranging from 0.069 mg/kg to 15 mg/kg. The highest concentration of 15 mg/kg was reported in the 32-33 ft bgs sample from DPT-018. The unsaturated zone samples in this boring all had TCE detected at much lower concentrations (0.058 mg/kg to 0.47 mg/kg). Cis-1-2-DCE was also detected in 5 of these saturated zone samples, with concentrations ranging from 0.032 to 0.480 mg/kg. The TCE detected in these borings was the only sample where TCE was detected or was the highest concentration reported in each boring.

The unsaturated zone soil sample TCE results and contour showing the extent of GWP-Ind MSC exceedances are shown on **Figure 11** and the saturated zone TCE results are shown on **Figure 12**. The posted results on **Figure 11** and **Figure 12** are the highest reported field laboratory concentrations for each boring in the unsaturated and saturated zones, respectively. As shown on **Figure 11**, the extent of GWP-Ind MSC exceedances indicates an elongated area of contamination approximately 500 ft long extending from southwest of Building 46A to the northeast of the building. Most of the concentrations only slightly exceed the MSC, with a few isolated locations of higher concentrations (greater than 10 mg/kg). These isolated locations may represent source areas from spills, sumps, or dumping. An additional consideration is that the shape of the exceedance area follows the general direction of groundwater flow and indicates that the soil contamination may represent a smear zone of soil contamination that remained as groundwater levels dropped. The results for the outlying samples (e.g. DPT-030 and DPT-031) may also indicate there are additional sources of TCE southwest of Building 46A that had not been previously identified.

3.2 Groundwater Sample Results

During the 2019 and 2020 field activities, groundwater samples were collected from temporary wells and monitoring wells to confirm an anomalously high concentration of TCE reported in well 47WW25R, to define the extent of residual DNAPL, and to assess the extent of TCE concentrations around Building 46A. This data will be used to supplement the historical data, as necessary, and to re-assess TCE in Upper Intermediate Zone groundwater to inform the ROD prior to its finalization.

The groundwater results presented in this section have been compared to SDWA MCLs, where they exist. Where an MCL has not been promulgated, the TRRP Tier 1 Groundwater PCL (TRRP PCL) comparison levels were used.

3.2.1 Groundwater Elevations and Cross Sections

Geologic cross sections were prepared to represent the lithology of the Shallow and Intermediate Zones, contacts between lithologic units, depths where soil and groundwater samples were collected, and groundwater elevations for both zones. Cross sections were prepared for the long axis (A – A') of the plumes, traversing from the southwest to the northeast and smaller perpendicular cross sections traversing from the northwest to the southeast. The cross sections are shown in **Figure 13** through **Figure 16**. The cross sections show undulating discontinuous silty sand layers across the site, with clay and clay mixed with fine sand, silt, and sandy/silty mixtures, which is the dominant unit in the Shallow Zone. The undulant nature of the sand and clay units is especially evident between the contact between the Shallow Zone bottom clay and the underlying Upper Intermediate sand where the contact depth varies greatly. The

presence of groundwater in the Shallow Zone appears related to sandy units. Several shallow DPT borings and wells completed in the Shallow Zone were either dry or contained a minimal amount of water (i.e., less than one foot). These borings and/or wells were typically screened in, or mostly in, clay units. One example where the shallow zone was dry is DPT-023, where the shallow DPT boring was set across the very shallow sand and into the clay laminated sand, this boring was a very poor producer of groundwater and was left open overnight. It is believed that the groundwater came from the clay laminated sand zone and not the overlying silty sand, sand clay mixture, resulting in a lower water table. It is possible that there are confining conditions and that there is a vertical gradient as a result. This would explain the differences in measured water elevations. All Upper Intermediate Zone DPT borings and wells contained groundwater ranging in depth below ground surface between 26 and 29 ft bgs. Higher groundwater elevations in the Upper Intermediate Zone were associated with borings/wells where the Upper Intermediate Zone sand was encountered closer to the ground surface. The direction of groundwater flow is to the northeast in both the Shallow and Upper Intermediate Zones; generally in agreement with previous findings (**Figure 17** and **Figure 18**).

3.2.2 2019 Groundwater Sampling and Results

Groundwater samples were collected from all eleven DPT borings and wells 47WW25R and 47WW37 for VOC analysis, and from DPT borings DPT-001, DPT-005, and DPT-010, and well 47WW09 for 1,4-dioxane analysis. All groundwater samples analyzed for VOCs were tested using EPA method SW8260B, while the 1,4-dioxane samples were analyzed using EPA method SW8270D. All eleven DPT borings were screened across the sand-laminated clay underlying the Shallow Zone and into the Upper Intermediate Zone (C/UI) sand unit, confounding evaluation of the results and limiting the ability to determine whether contamination is present through the entire open interval or is from a more limited zone within the interval. Well 47WW25R was also screened across this sand-clay interval into the Upper Intermediate Zone causing the same limitations determining the source of the VOC contamination. Well 47WW37 is screened in the Intermediate Zone, solely, and does not present the same limitations when evaluating the sample results. Six VOCs were detected at varying concentrations, of these, 2 compounds (acetone and toluene) were detected at low estimated concentrations well below their respective TRRP PCL. The remaining four VOCs included cis-1,2-DCE, methylene chloride, TCE, and vinyl chloride. The compound 1,4-dioxane was detected in one of the four samples collected for analysis. The following discussion focuses on these four compounds and the 1,4-dioxane detection.

The VOC TCE was the most prevalent compound detected: all 14 samples analyzed had a detectable concentration above the MDL that exceeded the MCL of 5 µg/L. Concentrations ranged from a low estimated (J) value of 29 J µg/L to a high of 140,000 µg/L.

Well 47WW25R had the highest concentrations of TCE at 140,000 µg/L, confirming the sample result from this well during the 2018 PSI (HDR, 2019b). Well 47WW37 had a detected concentration of 190 µg/L, higher than the 29.4 µg/L detected in 2010. Well 47WW37 is located approximately 40 feet to the south of 47WW25R and is screened in the Intermediate Zone groundwater at 61 ft bgs. Boring locations with the highest detected concentrations included DPT-007 (77,000 µg/L), DPT-008 (36,000 µg/L), DPT-011 (22,000 µg/L), DPT-010 (18,000 µg/L), and DPT-005 (5,400 µg/L). Based on these results, the highest TCE groundwater concentrations appear to be centered on well 47WW25R and borings DPT-005, DPT-007, DPT-

008, DPT-010, and DPT-011. When comparing the groundwater to the soil TCE results, only soil samples taken from DPT-007, DPT-010, and DPT-011 had relatively high TCE concentrations (up to 15.5 mg/kg). However, even the highest concentrations of TCE in soil were much lower than the 10,000 mg/kg suggested threshold for the presence of DNAPL.

The VOC cis-1,2-DCE was detected in 12 samples, seven with concentrations that exceeded the MCL of 70.0 µg/L. Concentrations ranged from a low estimated value of 0.99 J µg/L to a high of 2,600 µg/L.

Well 47WW25R had the highest concentrations of cis-1,2-DCE at 2,600 µg/L, while well 47WW37 had a relatively low value of 13 µg/L. Boring locations with the highest detected concentrations included DPT-011 (1,500 µg/L), DPT-010 (13,000 µg/L), DPT-007 (840 J µg/L), and DPT-008 (820 µg/L). Based on these results, the highest cis-1,2-DCE groundwater concentrations appear to be centered on well 47WW25R and borings DPT-007, DPT-008, DPT-010, and DPT-011, similar to the TCE results. When comparing the groundwater to the soil cis-1,2-DCE results, soil samples taken from DPT-007, DPT-008, DPT-010, and DPT-011 all had relatively high cis-1,2-DCE concentrations. The detection of cis-1,2-DCE, and to a lesser extent vinyl chloride, suggest natural attenuation of TCE.

Methylene chloride was detected in seven samples at estimated concentrations, all of which had concentrations that exceeded the MCL of 5 µg/L. Concentrations ranged from a low estimated value of 6.1 J µg/L to a high of 210 µg/L.

Methylene chloride went undetected in well 47WW25R, while well 47WW37 had a detection of 6.1 J µg/L. Boring locations with the highest detected concentrations included DPT-008 (210 J µg/L), DPT-010 (200 J µg/L), DPT-005 (94 J µg/L), DPT-004 (24 J µg/L), and DPT-003 (23 J µg/L). Based on these results, the highest methylene chloride groundwater concentrations appear to be centered on borings DPT-003, DPT-004, DPT-005, DPT-008, and DPT-010, which has a farther areal extent than the cis-1,2-DCE and TCE plume. When comparing the groundwater to the soil methylene chloride results, only one soil sample taken from DPT-008 had a soil detection.

Vinyl chloride was only detected in the sample collected from boring DPT-010 at an estimated concentration of 97 J µg/L. This concentration exceeded the MCL of 2.0 µg/L. The compound 1,4-dioxane was only detected in well 47WW09 at a concentration of 37 µg/L, which exceeded the TRRP PCL of 9.1 µg/L. Samples collected from borings DPT-001, DPT-005, and DPT-010 did not have detectable concentrations above the MDL.

Fixed laboratory analytical results for TCE and its primary degradation products for the 2019 groundwater samples are presented in **Table 7**, while the raw analytical data package and data validation report are provided in **Attachment 5**. Note: For groundwater samples that were analyzed undiluted, the LOQs were below the PALs, MCL, and TRRP Groundwater PCL except for 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, and 1,2-dibromoethane, as was noted in the data validation report.

Some of the groundwater samples were analyzed at dilutions, which resulted in LOQs for a number of analytes that were above the PALs. However, for all the samples analyzed at dilution, all had TCE results above the PALs, and some of the samples also had methylene chloride, cis-1,2-DCE, and/or vinyl chloride results above the PALs. The samples that were run at dilutions

had been previously analyzed at other dilutions and were reanalyzed at the reported dilutions because the TCE results were within the instrument's calibration curve.

3.2.3 2020 Groundwater Sampling and Results

Groundwater samples were collected from the temporary wells installed in the DPT borings, as well as from existing and newly installed monitoring wells during the 2020 field effort. As described in **Sections 2.2** and **2.3**, temporary wells were installed in all of the DPT borings except for DPT-038. Eight new monitoring wells were installed and sampled, and 6 existing monitoring wells were sampled. The samples collected from all of the temporary and existing monitoring wells were analyzed by EPA Method SW826B for a selected suite of 8 VOCs in the field laboratory. Samples from the newly installed monitoring wells and 4 selected temporary well samples were analyzed for VOCs by EPA Method SW826B in a fixed laboratory. The field laboratory groundwater sample results are presented in **Table 8** and the fixed laboratory results for TCE and its primary degradation products are presented in **Table 7**. **Figure 19** presents the TCE results for the Shallow Zone temporary well and monitoring well samples.

For the Shallow Zone samples, field laboratory results showed TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, PCE, and vinyl chloride were detected in one or more samples. PCE and trans-1,2-DCE were detected in 1 and 4 samples, respectively, and the reported concentrations did not exceed their MCLs. Methylene chloride was detected in one sample at 0.99 µg/L in 47WW48. Methlyene chloride was not detected in any other Shallow Zone monitoring well or temporary well samples. TCE and cis-1,2-DCE were detected most frequently. Thirteen of the temporary well samples and 3 of the existing monitoring well samples had TCE concentrations greater than the MCL of 5 µg/L. The detected TCE concentrations ranged from 6.6 µg/L to 120,000 µg/L. Four of the new monitoring wells are screened in the Shallow Zone (47WW48, 47WW49, 47WW52, and 47WW55) and the samples were analyzed at the fixed laboratory. The TCE concentrations reported in each of these wells also exceeded the MCL, ranging from 2,410 µg/L to 54,100 µg/L.

The highest reported TCE (120,000 µg/L) and cis-1,2-DCE (2,500 µg/L) were reported in 47WW25R, and are consistent with the previously reported concentrations. The other borings located in the immediate vicinity of 47WW25R also had TCE concentrations greater than 10,000 µg/L (DPT-014, 30 feet to the southeast, was dry and could not be sampled). DPT-013, located approximately 20 feet to the northwest had a TCE concentration of 57,000 µg/L, and new monitoring well 47WW49 located adjacent to DPT-013 had a TCE concentration of 10,200 µg/L. The other 2 borings near Building 46A and 47WW25R included DPT-026 (14,000 µg/L) and DPT-012 (21,000 µg/L). DPT-026 is located approximately 60 feet south of 47WW25R and DPT-012 is located approximately 100 feet west/southwest, on the other side of Building 46A.

The remaining DPT borings were placed farther away from Building 46A to define the extent of the TCE plume, and indicated additional possible hot spots or source areas distant from the initially identified hot spot. These include DPT-031 southwest of Building 46A that had a TCE concentration of 41,000 µg/L and DPT-029 to the northeast where TCE was reported at 22,000 µg/L. Monitoring well 47WW48 located adjacent to DPT-031 also had a high TCE concentration of 54,100, similar to the concentration reported in DPT-031. Other borings with TCE concentrations greater than 1,000 µg/L included DPT-027 (3,500 µg/L), DPT-023 (2,500 µg/L), DPT-033 (5,700 µg/L), and DPT-017 (3,000 µg/L). Shallow Zone monitoring well 47WW52, located approximately 50 feet northeast of DPT-023 had a similar TCE concentration of 5,990

µg/L. Monitoring well 47WW55, located adjacent to 47WW54 (Upper Intermediate Zone) and approximately 40 feet north of 47WW52 had a TCE concentration of 2,410 µg/L, indicating decreasing TCE concentrations farther north of the plume center around DPT-029, however concentrations still significantly exceed the MCL.

The overall results for the Shallow Zone temporary wells and monitoring wells show 3 distinct plumes with TCE concentrations greater than the MCL of 5 µg/L, separated by dry zones, as shown on **Figure 19.** The largest plume is centered on Building 46A, with two smaller plumes, one to the east and one north of Building 46A. In addition to indicating the extent of TCE concentrations greater than the MCL, the extent of the areas with TCE concentrations greater than 10,000 µg/L is shown on **Figure 19**. These areas may indicate the presence of residual DNAPL. As noted in *An Introduction to Characterizing Sites Contaminated with DNAPLs* (ITRC, 2003), "one indication of the presence of DNAPL in the saturated zone in a monitoring well with a long well screen (at least 10 ft long), is that the concentration of the contaminant is greater than one to ten percent (1-10%) of the compound's effective solubility." Based on this definition, the estimated DNAPL threshold concentration for TCE is 11,000 µg/L. While this "rule of thumb" is not a conclusive indication of DNAPL, recent concentrations of TCE indicate the potential presence of residual DNAPL. A concentration of 10,000 µg/L is being used as a conservative indicator of the possible presence of residual DNAPL. Based on this definition, there are also 3 separate areas of residual DNAPL in the Shallow Zone. The largest is centered on Building 46A, and the other two are each defined by a single location, DPT-031 to the southwest and DPT-029 to the northeast (**Figure 19**).

The Upper Intermediate Zone temporary wells installed during the 2020 field effort were all constructed as described in **Section 2.2** and are all considered to be isolated from the Shallow Zone and that the sample results to represent the Upper Intermediate Zone (not the C/UI). Although some of the well screens were placed within the C/UI, the exposed screen depths were in the sand unit below the confining clay to ensure that the samples would represent the Upper Intermediate Zone. For the Upper Intermediate Zone groundwater samples, results for the temporary wells and monitoring wells showed that TCE and cis-1,2-DCE were detected most frequently. PCE, 1,2-DCA, and methylene chloride were not detected in any of the field laboratory samples, including 47WW37 that had methylene chloride detected in 2019. Vinyl chloride was detected in one sample (DPT-017 at 7.80 µg/L), and trans-1,2-DCE was detected in 2 samples at concentrations less than the MCL. Some of the groundwater samples were analyzed at dilutions, which resulted in LOQs for a number of analytes that were above the MCLs. However, for all the samples analyzed at dilution, all had TCE results that exceeded the MCL.

The fixed laboratory results also showed TCE and cis-1,2-DCE were most frequently detected. 1,1-DCE was detected in 7 samples, with 1 sample exceeding the MCL of 7 µg/L (47WW48 – 25.4 µg/L). Vinyl chloride was detected in 5 samples, with one result exceeding the MCL of 2 µg/L (47WW48 – 5.93 µg/L). Additional VOCs were detected in the fixed laboratory samples, however most of the detections were in a single sample and none exceeded their respective MCLs or TRRP PCL. **Figure 20** presents the TCE results for the Upper Intermediate Zone temporary wells and monitoring wells.

Three of the highest TCE and cis-1,2-DCE concentrations in Upper Intermediate temporary or monitoring wells were reported in the same or nearby temporary wells that had high Shallow

Zone concentrations. TCE concentrations greater than 10,000 µg/L were reported in DPT-026 (40,000 µg/L) and DPT-029 (11,000 µg/L). Comparison of the Shallow and Upper Intermediate Zone concentrations indicate increasing concentrations with depth at DPT-029. The Upper Intermediate Zone concentrations were less than the corresponding Shallow zone concentrations in the other wells, however, all of these locations indicate the presence of residual TCE DNAPL in both the Shallow and Upper Intermediate Zones.

Three additional Upper Intermediate Zone temporary wells that were dry in the shallow zone had TCE reported greater than 10,000 µg/L, including DPT-018 (41,000 µg/L), DPT-022 (66,000 µg/L) and DPT-028 (11,000 µg/L). It is possible that since some of the shallow zone temporary wells were screened in tight clay soils that they may be been within the saturated zone, but that no water accumulated by the time sampling was attempted. The cis-1.2-DCE concentrations in all of these wells also exceeded the MCL. Collectively these results indicate a residual DNAPL plume that extends from the southeastern corner of Building 46A approximately 300 feet to the north/northeast. **Figure 20** shows the iso-concentration contour indicating the extent of residual TCE DNAPL in the Upper Intermediate Zone.

Six Upper Intermediate Zone temporary wells and 3 monitoring wells had TCE reported at concentrations between 1,000 µg/L and 10,000 µg/L. Three of these locations had no corresponding shallow temporary well samples because the Shallow Zone well was dry (DPT-020, DPT-021, and DPT-028). The remaining Upper Intermediate Zone locations had corresponding Shallow Zone samples. Two of these wells had higher TCE concentrations in the Upper Intermediate Zone than in the corresponding Shallow Zone samples (DPT-023, DPT-035). Concentrations decreased with depth at DPT-033.

Based on the results for the Upper Intermediate Zone temporary wells and monitoring wells, a TCE residual DNAPL plume can be defined except in the north and a small part of the boundary to the east, and the full extent of TCE concentrations that exceed the MCL of 5 µg/L is not bounded by locations where TCE was not detected or was less than 5 µg/L. SB01 and SB02 were borings completed during the initial PSI and these locations were used to bound the extent to the southwest and southeast. The samples from the two Upper Intermediate Zone monitoring wells north of DPT-023 had higher TCE concentrations reported, 5,540 µg/L in 47WW53 and 4,860 µg/L in 47WW54. These wells are located approximately 50 and 100 ft north of DPT-023, which had an Upper Intermediate Zone TCE concentration of 4,400 µg/L, indicating that the extent of TCE is unbounded to the north. **Figure 20** shows iso-concentration contours for TCE in the Upper Intermediate Zone.

There were limited data available for the Intermediate Zone. One existing well, 47WW37 was sampled to provide data for the Intermediate Zone. The TCE concentration was greater than the MCL, 180 µg/L in 47WW37. Monitoring well 47WW37 is located adjacent to 47WW25R, near Building 46A and near the presumed source of TCE. The TCE concentration was 180 µg/L, greater than the MCL but several hundred orders of magnitude less than the concentration reported in the C/UI Zone (120,000 µg/L in the 47WW25R sample). 47WW37 is screened between 56-66 ft bgs, approximately 20 feet deeper than the Upper Intermediate Zone wells. The detected TCE at this depth indicates that the TCE contamination has migrated to depth. Due to the much greater depth than the Upper Intermediate Zone wells, the TCE concentration for this well was not considered representative of the Upper Intermediate Zone and was not used to develop the TCE isoconcentration contours shown on **Figure 20**.

3.2.4 Field/Fixed Laboratory Data Comparison

Ten soil samples were analyzed by both the field and fixed laboratories. TCE was reported in 7 of the 10 samples, and 2 of the field laboratory samples, with the results for DPT-028 (5.88 mg/kg in the 16-17 ft bgs sample) and DPT-030 (59.6 mg/kg in the 10-11 ft bgs sample) exceeding the GWP-Ind MSC of 0.5 mg/kg. These results generally correlate with the field laboratory results for these borings, in that the field laboratory results for these samples also exceeded 0.5 mg/kg, however the field laboratory concentrations were both less than those reported by the fixed laboratory (1.3 mg/kg for DPT-028 and 16.0 mg/kg for DPT-030). The other detected TCE concentrations in the fixed laboratory samples were reported from DPT-029, DPT-021, DPT-020, and DPT-017 at concentrations ranging from 0.005 mg/kg to 0.324 mg/kg. TCE was not detected in any of the corresponding field laboratory samples for these samples. The differences in sample dilution between the fixed and field laboratory results influence the individual sample LOQs and is likely the cause for the difference in detected vs. undetected results. Cis-1,2-DCE was detected at concentrations ranging from 0.001 mg/kg to 0.467 mg/kg in 4 samples, from DPT-017, DPT-021, DPT-028, and DPT-030. All of these samples also had TCE detected, and all concentrations were well below the GWP-Ind MSC of 7.0 mg/kg. Two other VOCs, toluene and bromoform, were detected in one sample each, and the reported concentrations were well below the respective GWP-Ind MSCs.

The relative percent difference (RPD) was calculated for samples that had the analytes detected in both the fixed and field laboratory samples. The RPDs higher than 50% also reflect differences in dilution. **Table 9** presents a comparison of the paired field and fixed laboratory soil sample results.

Four temporary well groundwater samples were analyzed in both the field and fixed laboratory. **Table 10** presents the paired results for groundwater samples analyzed in both the field laboratory and fixed laboratory. TCE and cis-1,2-DCE were both detected in all of the sample pairs. Three of the field/fixed laboratory pairs had similar TCE concentrations, with RPDs less than 10%, while the fixed laboratory result was significantly higher in the samples from DPT-025 (1,510 µg/L vs. 660 µg/L). The cis-1,2-DCE results also showed generally good agreement. Vinyl chloride and methylene chloride were detected at concentrations less than 1 µg/L in the fixed laboratory sample from DPT-025 but were not detected in the field laboratory sample. In general, there was very good correlation between the field and fixed laboratory analytical results. There were several sample pairs where the correlation was lower, but can be attributed to the fixed laboratory analyzing additional diluted samples.

4.0 Investigation Summary

The results of the PSI No. 2 field results are summarized in the following discussion.

4.1 Shallow Zone Groundwater

The Shallow Zone groundwater table in the vicinity of Building 46A occurs at depths between approximately 25 ft bgs and 32 ft bgs. Temporary wells screened at depths shallower than 20 ft bgs were all dry, as were several of the wells screened at depths greater than 23 ft bgs (**Table 1**), the depth determined to represent the historical depth of the unsaturated/saturated zone interface. As shown on **Figure 19**, the dry temporary well locations separate the Shallow Zone TCE plume into 3 distinct plumes, separated by dry zones. Review of the boring logs for the dry wells shows that nearly all of these wells had screens set in the sand-laminated clay. DPT-018, DPT-022 and DPT-036 were the only locations that had screens set nearly exclusively in clay or silty clay, while the other dry locations had sand lenses logged at varying thicknesses. The largest Shallow Zone groundwater plume is centered on Building 46A, with two smaller plumes, one to the east and one to the northeast of Building 46A.

The extent of TCE contamination exceeding the MCL of 5 µg/L in the plume centered on Building 46A is fully defined. The plume is bounded by dry wells or locations with reported TCE concentrations less than the MCL or where TCE went undetected. Results for monitoring wells or soil borings sampled during the initial PSI in 2018 were used to help define the extent of this plume. The extent of the smaller plume to the east, encompassing DPT-033, DPT-017, and DPT-032 is defined except to the northeast. This plume may extend toward 47WW13, however LHSMW50 had a TCE concentration of 0.6 ug/L in 2018, indicating that the reported TCE in 47WW13 may be from a different source. The extent of the northern Shallow Zone plume is defined by dry temporary wells to the south, and 47WW24 to the north, but the extent of the plume in the other directions is not defined. The dry wells separating this plume (DPT-018, DPT-019, DPT-022, DPT-028, and DPT-036) from the other plumes were screened in the sand-laminated clay or in clay and silty clay. The clay-dominated soil conditions may explain the lack of water at these locations and it is possible that water would have been present if the wells had been open for a longer period before attempting to collect samples.

There are 3 areas of residual TCE DNAPL within the Shallow Zone, defined as TCE concentrations greater than 10,000 µg/L. The largest area is near Building 46A, with concentrations reported at 57,000 µg/L in temporary well DPT-013. A smaller area of residual DNAPL is defined within the larger TCE plume and southwest of Building 46A, centered on DPT-031 (41,000 µg/L) and 47WW48 (54,100 µg/L). The third, and smallest area of residual DNAPL is centered on DPT-029 (22,000 µg/L) within the northern Shallow Zone plume. The extent of these three residual DNAPL plumes are defined within the extent of the larger plumes exceeding the MCL. The TCE samples with concentrations indicative of residual DNAPL were taken from intervals with predominantly clay soils, with some interspersed sand lenses within the screened intervals.

4.2 Upper Intermediate Zone Groundwater

The Upper Intermediate Zone groundwater results indicate a single TCE plume defined by TCE concentrations exceeding 5 µg/L that extends from the southeastern corner of Building 46A

toward the north and east (**Figure 20**). The extent of the plume with concentrations exceeding the MCL is defined to the south and southwest, and is partially defined along the estimated northeastern boundary, but is not defined to the southeast, north, and northwest.

The results for 47WW25R and DPT-001 through DPT-011 may represent contamination at least partially contributed by a shallower source in the clay-dominated layer overlying the Upper Intermediate zone and are therefore considered separately from the results for the other Upper Intermediate Zone temporary and monitoring wells. All of these locations are within the larger TCE plume defined by other temporary wells and monitoring wells screened in the Upper Intermediate Zone. Concentrations in samples from 47WW25R and DPT-005, -007, -008, -010 and -011 all exceeded 5,000 µg/L; all except DPT-005 had sample concentrations exceeding 10,000 µg/L.

A single residual DNAPL plume is defined within the larger plume, and extends from DPT-026 in the south to DPT-028 and DPT-029 to the northeast and north. TCE concentrations in samples collected from these wells screened solely in the Upper Intermediate Zone ranged from 11,000 µg/L in DPT-028 and DPT-029 to 66,000 µg/L in DPT-022. Unlike the Shallow Zone residual DNAPL plumes, these results were reported in samples taken from the sand unit underlying the clay-dominated unit separating the Shallow and Upper Intermediate Zones. The estimated southern extent of the residual DNAPL is defined by DPT-026 with a TCE concentration of 40,000 µg/L.

One confounding result is for 47WW50, located near 47WW25R. This well is screened from 45 ft bgs to 50 ft bgs that had a TCE concentration of 471 µg/L, and is screened deeper than any of the C/UI wells (DPT-005, screen interval 24-34 ft bgs, and DPT-007, screen interval 26-36 ft bgs) in the vicinity. This result suggests that the dissolved phase concentrations from the residual DNAPL decrease with depth. This is supported by comparison with the concentration of 10,200 µg/L that was reported in nearby Shallow Zone well 47WW49 (screen interval 19-29 ft bgs).

The highest concentration of TCE that has been reported was from 47WW25R and several of the other highest concentrations were reported in samples from the nearby C/UI temporary wells as noted above. These combined results indicate the primary TCE source is centered in this area and has migrated to the northeast, consistent with the groundwater flow direction, however there is uncertainty about the depth of the source since the high concentrations in the Upper Intermediate Zone wells may reflect cross-contamination from the C/UI wells or long-term migration from the overlying clay unit.

4.3 Soil

The unsaturated zone soil results indicate an area of contamination with TCE concentrations exceeding the GWP-Ind MSC of 0.5 mg/kg (**Figure 11**) that generally overlies the extent of the Shallow Zone groundwater plume centered on Building 46A and the smaller plume to the northeast, trending from southwest of Building 46A to the northeast. The field laboratory sample results are shown on **Figure 11**, and represent the highest concentration reported in the unsaturated zone for each boring. The field laboratory results are shown since all samples were analyzed and provide a complete data set while the fixed laboratory analysis was performed for only a subset of samples. The extent of unsaturated soil contamination is defined by locations

where TCE was not detected or was less than 0.5 mg/kg. TCE concentrations for the soil exceedances ranged from 0.5 mg/kg to 16 mg/kg. Except for the high concentration of 16 mg/kg reported in DPT-030, all other exceedances ranged from 0.5 to 3.3 mg/kg. The shallow zone well at DPT-30 was dry, and no Upper Intermediate Zone well was installed, so no conclusion can be drawn about whether the high concentration in the unsaturated soil may have impacted groundwater.

The highest TCE concentrations reported in soil are orders of magnitude less than the EPA guidance that concentrations of chemicals in soil greater than 1% by mass or 10,000 mg/kg may indicate the presence of DNAPL (EPA, 1994). The reported TCE concentrations in both unsaturated and saturated soil do not identify a potential DNAPL source, indicating that the TCE source may be a small, localized point source not identified by DPT boring locations.

The unsaturated soil results indicate that TCE concentrations exceed the GWP-Ind MSC overlying a portion of the residual DNAPL plumes, but unsaturated soil TCE concentrations in the DPT borings with Shallow Zone groundwater concentrations indicative of residual DNAPL were not detected or were less than the MSC in DPT-012 and DPT-026, and 0.5 mg.kg in the DPT-013 sample. These three DPT borings define the extent of the Shallow Zone groundwater residual DNAPL plume near Building 46A. The unsaturated soil sample results were not detected for all depths sampled in DPT-029, the residual DNAPL location in the northern plume. The third area of residual DNAPL in groundwater is defined near DPT-031.The unsaturated soil concentrations in DPT-031 increased with depth to a maximum of 2 mg/kg in the 21-22 ft bgs sample. These results may indicate a potential source area that has impacted groundwater, however the soil concentration is still much lower than what would be expected to represent DNAPL in soil. The results for DPT-030 and DPT-031 may also indicate an additional source southwest of Building 46A that was not previously identified.

Since the overall extent of the unsaturated soil TCE contamination overlies a portion of the maximum extent of the Shallow Zone groundwater plumes, the area may be generally considered to reflect a dispersed source area, but the relatively low concentrations throughout the area do not indicate a significant point source that is impacting groundwater, and most exceedances are limited to depths just above the historical saturated depth or are isolated in lateral extent where exceedances are present at shallower depths.

Most of the highest (greater than 10 mg/kg) TCE concentrations reported in the saturated soils coincide with the Shallow Zone residual DNAPL plume extent around Building 46A (saturated soil results are shown on **Figure 12,** residual DNAPL plumes are shown on **Figure 19**). The field laboratory sample results are shown on **Figure 12**, and represent the highest concentration reported in the saturated zone for each boring. The field laboratory results are shown since all samples were analyzed and provide a complete data set while the fixed laboratory analysis was performed for only a subset of samples. Locations outside of this plume with higher saturated soil concentrations include DPT-001 at the northern end of Building 46A, just outside of the Shallow Zone residual DNAPL plume. The other saturated zone soil sample with the highest reported TCE concentrations was from DPT-018 to the northeast of Building 46A and overlies the Upper Intermediate Zone residual DNAPL plume. These isolated soil hot spot areas may be targeted for further investigation and possible remediation as part of the Remedial Design process.

5.0 References

AECOM, 2012. AECOM Technology Inc. (AECOM), 2012. Final Proposed Plan for LHAAP-47, Plant 3 Area, Longhorn Army Ammunition Plant, Texas, December.

AECOM, 2013. Draft Final Record of Decision, LHAAP-47, Longhorn Army Ammunition Plant, Karnack, Texas. July

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IRTC, 2003 An Introduction to Characterizing Sites Contaminated with DNAPLs. September.

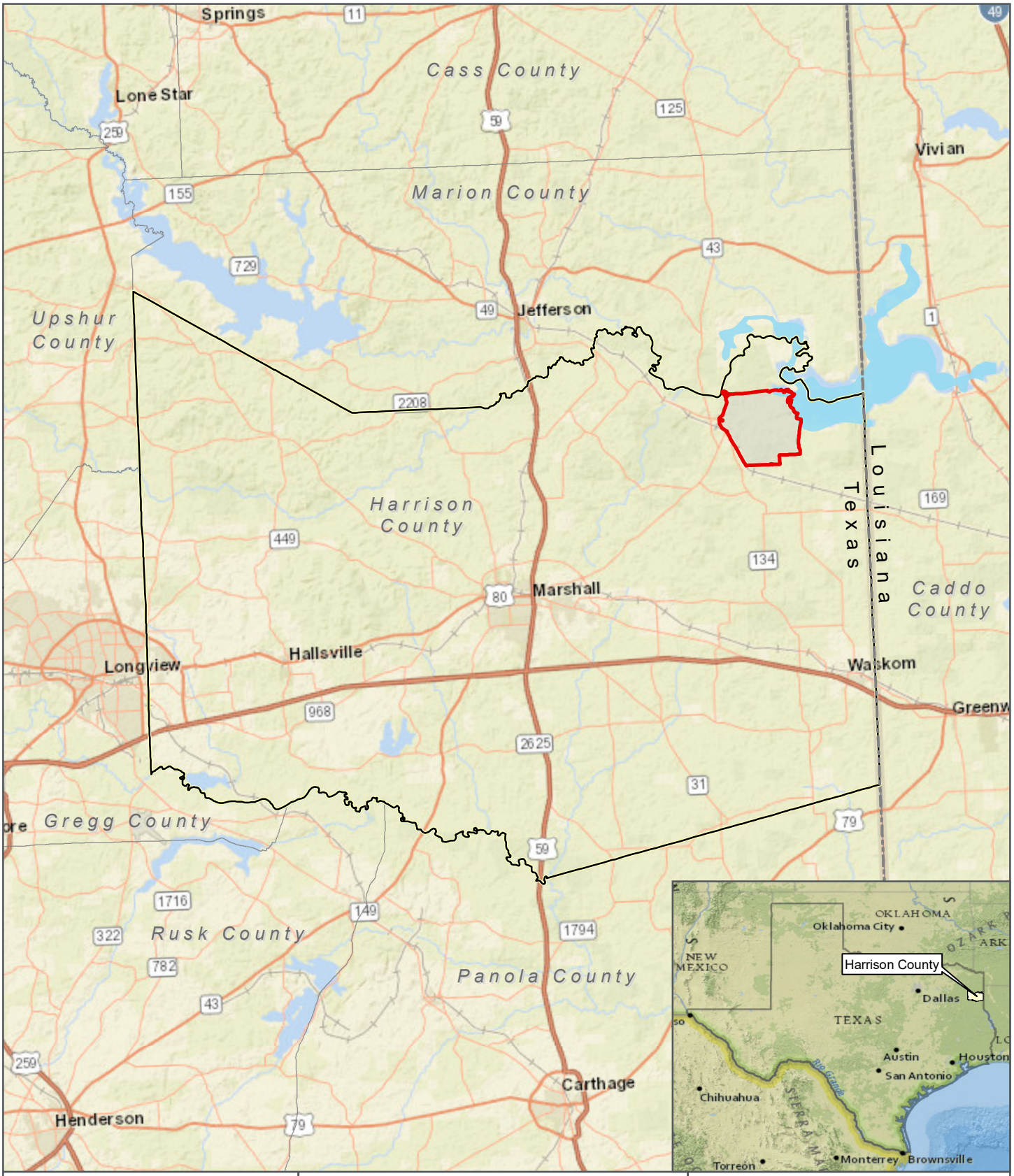
Shaw, 2011. Final Feasibility Study LHAAP-47, Plant 3 Area, Group 4, Longhorn Army Ammunition Plant, Karnack, Texas. July 2011.

U.S. Environmental Protection Agency (EPA), 1994. DNAPL Site Characterization. OSWER Publication 9355.4-16FS.

Attachment 1

Figures

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SITE LOCATION

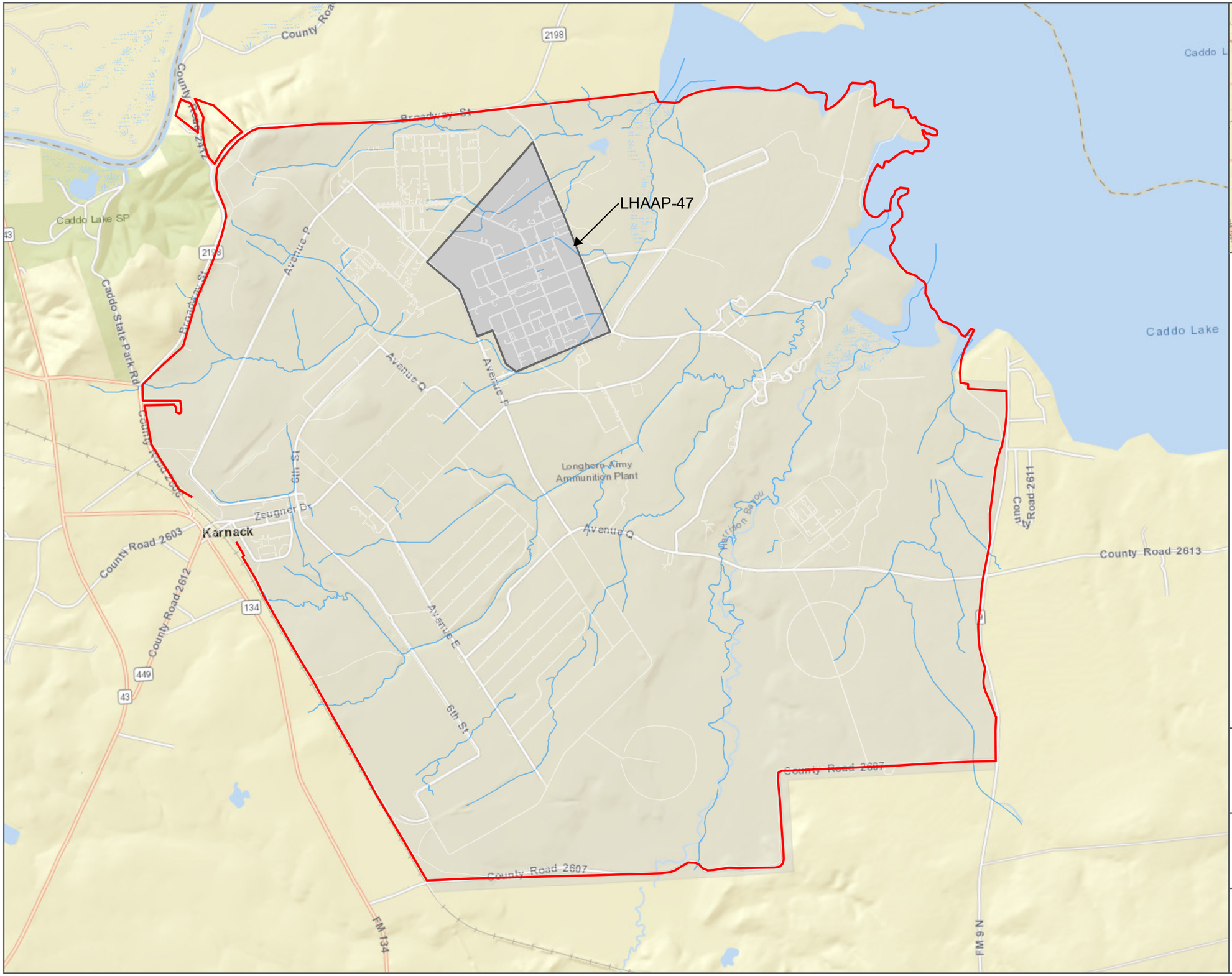
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

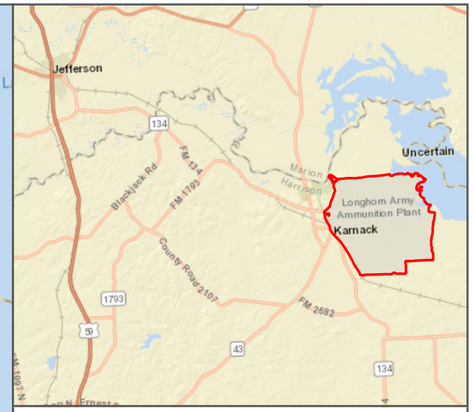
DATA SOURCES: USACE 2011, LHAAP-16 Record of Decision

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

FIGURE 1

PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47\PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_LHAAP_SITE_LOCATION_FIG1.MXD - USER: KLOFGREN - DATE: 12/16/2020





LEGEND

- LHAAP Installation Boundary
- Site
- Road
- Stream

DATA SOURCES: ESRI

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

LHAAP-47 SITE MAP

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

N

0 0.5 1
MILES

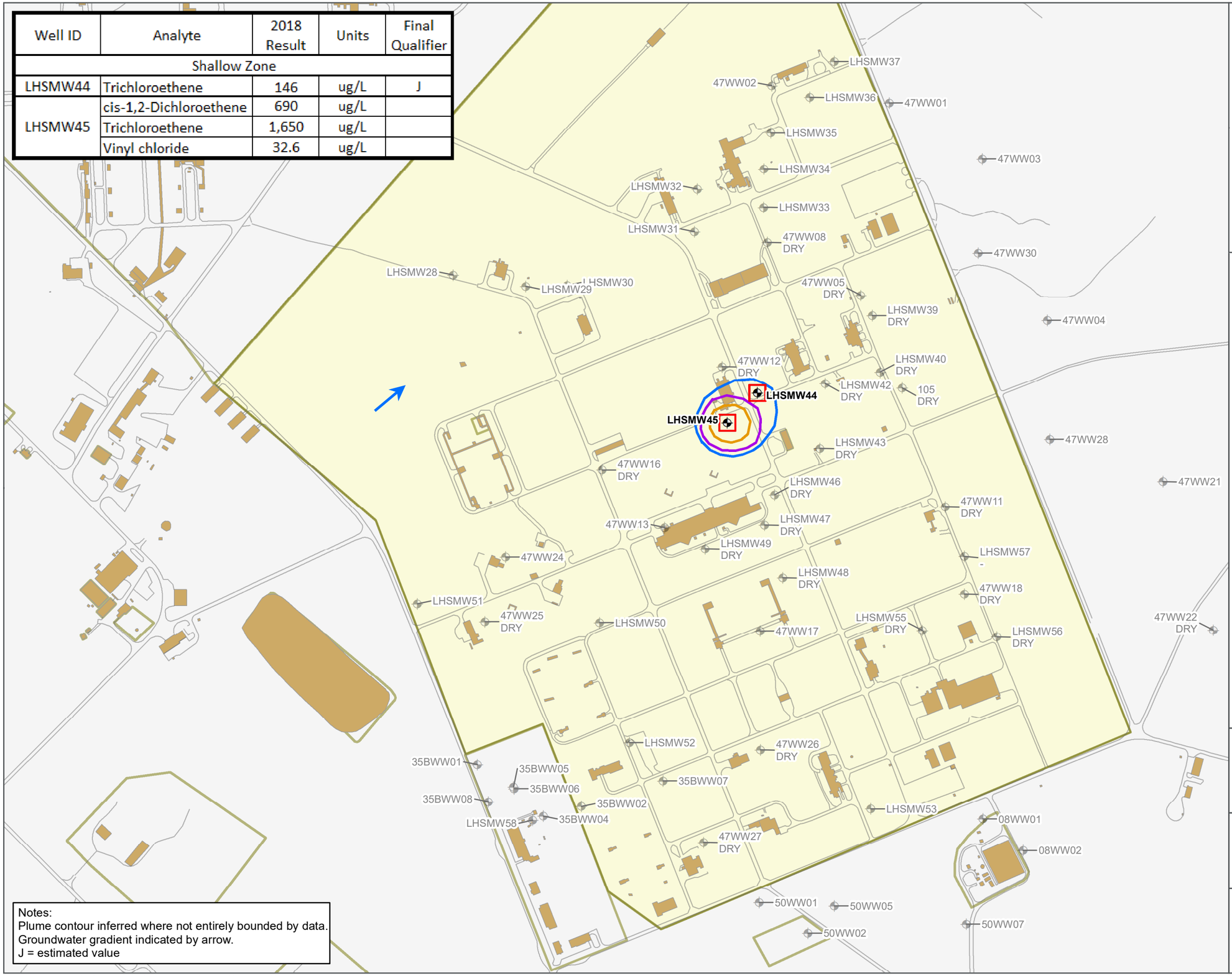
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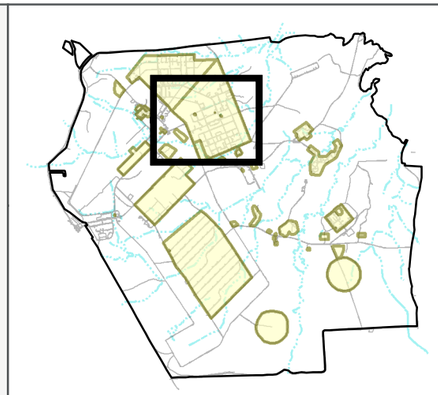
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FIGURE 2

PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47\PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_SITE_VICINITY_FIG2.MXD - USER: KLOFGREN - DATE: 12/16/2020

Well ID	Analyte	2018 Result	Units	Final Qualifier
Shallow Zone				
LHSMW44	Trichloroethene	146	ug/L	J
LHSMW45	cis-1,2-Dichloroethene	690	ug/L	
	Trichloroethene	1,650	ug/L	
	Vinyl chloride	32.6	ug/L	





LEGEND

- Monitoring Well With Contaminant That Exceeds Cleanup Criteria
- Shallow Monitoring Well (Not Sampled)
- Sampled Shallow Monitoring Well
- Vinyl Chloride Exceeding Shallow Zone USEPA MCL (2µg/L)
- cis-1,2-Dichloroethene Exceeding Shallow Zone USEPA MCL (70µg/L)
- Trichloroethene Exceeding Shallow Zone USEPA MCL (5µg/L)
- Road
- Building
- LHAAP-47
- LHAAP Site

Notes:
Plume contour inferred where not entirely bounded by data.
Groundwater gradient indicated by arrow.
J = estimated value

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

SAMPLE RESULTS FOR SHALLOW GROUNDWATER JULY 2018

LHAAP-47
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

N

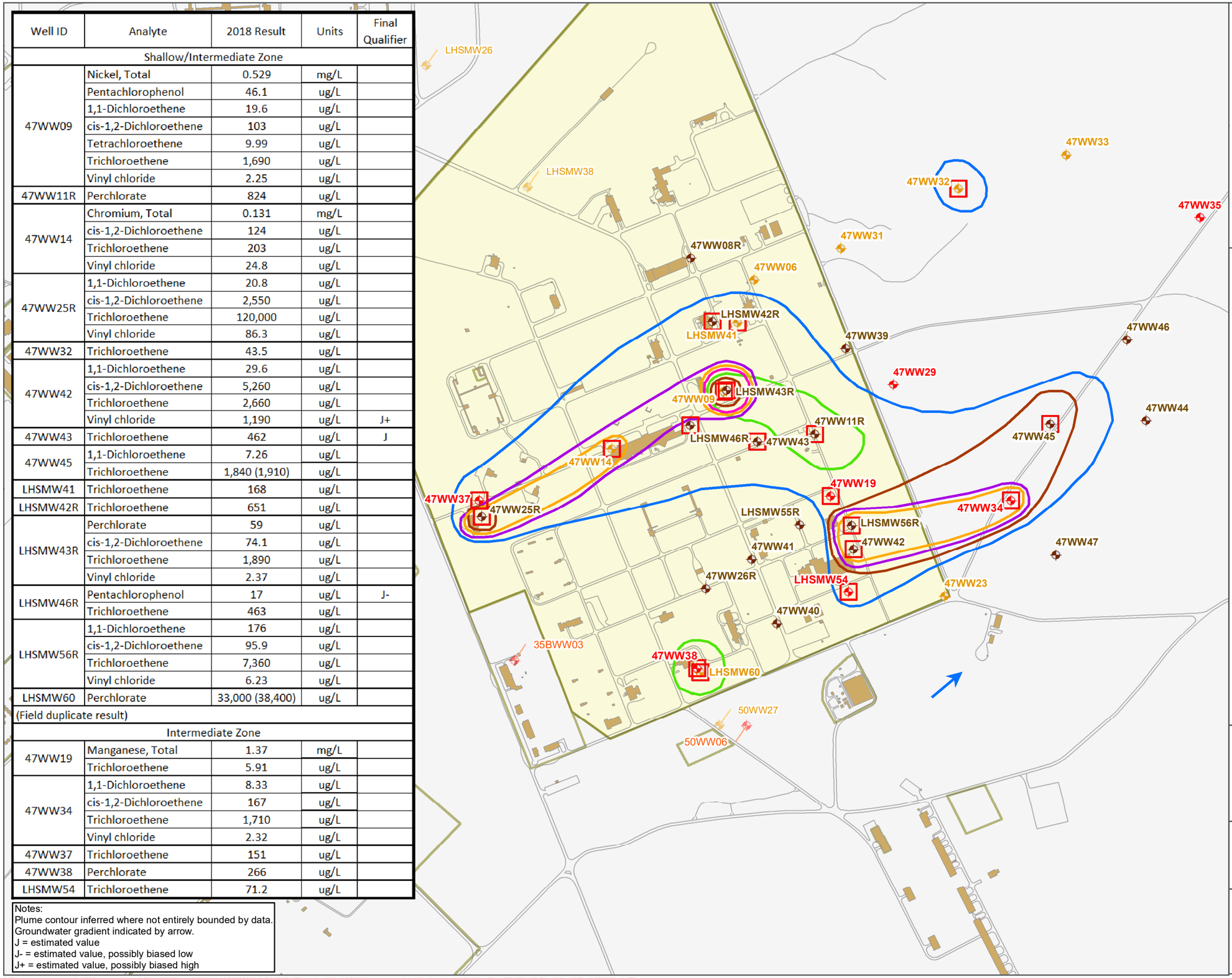
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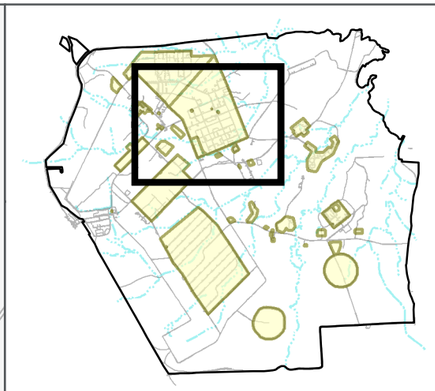
FIGURE 3

PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47\PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_ALL_CONTAMINANTS_SHALLOW_FIG3.MXD - USER: KLOFGREN - DATE: 12/16/2020

Well ID	Analyte	2018 Result	Units	Final Qualifier
Shallow/Intermediate Zone				
47WW09	Nickel, Total	0.529	mg/L	
	Pentachlorophenol	46.1	ug/L	
	1,1-Dichloroethene	19.6	ug/L	
	cis-1,2-Dichloroethene	103	ug/L	
	Tetrachloroethene	9.99	ug/L	
	Trichloroethene	1,690	ug/L	
	Vinyl chloride	2.25	ug/L	
47WW11R	Perchlorate	824	ug/L	
47WW14	Chromium, Total	0.131	mg/L	
	cis-1,2-Dichloroethene	124	ug/L	
	Trichloroethene	203	ug/L	
	Vinyl chloride	24.8	ug/L	
47WW25R	1,1-Dichloroethene	20.8	ug/L	
	cis-1,2-Dichloroethene	2,550	ug/L	
	Trichloroethene	120,000	ug/L	
	Vinyl chloride	86.3	ug/L	
47WW32	Trichloroethene	43.5	ug/L	
47WW42	1,1-Dichloroethene	29.6	ug/L	
	cis-1,2-Dichloroethene	5,260	ug/L	
	Trichloroethene	2,660	ug/L	
	Vinyl chloride	1,190	ug/L	J+
47WW43	Trichloroethene	462	ug/L	J
47WW45	1,1-Dichloroethene	7.26	ug/L	
	Trichloroethene	1,840 (1,910)	ug/L	
LHSMW41	Trichloroethene	168	ug/L	
LHSMW42R	Trichloroethene	651	ug/L	
LHSMW43R	Perchlorate	59	ug/L	
	cis-1,2-Dichloroethene	74.1	ug/L	
	Trichloroethene	1,890	ug/L	
	Vinyl chloride	2.37	ug/L	
LHSMW46R	Pentachlorophenol	17	ug/L	J-
	Trichloroethene	463	ug/L	
LHSMW56R	1,1-Dichloroethene	176	ug/L	
	cis-1,2-Dichloroethene	95.9	ug/L	
	Trichloroethene	7,360	ug/L	
	Vinyl chloride	6.23	ug/L	
LHSMW60	Perchlorate	33,000 (38,400)	ug/L	
(Field duplicate result)				
Intermediate Zone				
47WW19	Manganese, Total	1.37	mg/L	
	Trichloroethene	5.91	ug/L	
47WW34	1,1-Dichloroethene	8.33	ug/L	
	cis-1,2-Dichloroethene	167	ug/L	
	Trichloroethene	1,710	ug/L	
	Vinyl chloride	2.32	ug/L	
47WW37	Trichloroethene	151	ug/L	
47WW38	Perchlorate	266	ug/L	
LHSMW54	Trichloroethene	71.2	ug/L	

Notes:
Plume contour inferred where not entirely bounded by data.
Groundwater gradient indicated by arrow.
J = estimated value
J- = estimated value, possibly biased low
J+ = estimated value, possibly biased high





LEGEND

- Monitoring Well With Contaminant That Exceeds Cleanup Criteria
- Sampled Shallow/Intermediate Monitoring Well
- Shallow/Intermediate Monitoring Well (Not Sampled)
- Intermediate Monitoring Well (Not Sampled)
- Sampled Intermediate Monitoring Well
- Sampled Intermediate (Upper) Monitoring Well
- 1,1-Dichloroethene Exceeding Shallow Zone USEPA MCL (7µg/L)
- Vinyl Chloride Exceeding Shallow Zone USEPA MCL (2µg/L)
- cis-1,2-Dichloroethene Exceeding Shallow Zone USEPA MCL (70µg/L)
- Trichloroethene Exceeding Shallow Zone USEPA MCL (5µg/L)
- Perchlorate Exceeding Shallow Zone TRRP PCL (17µg/L)
- Tetrachloroethene Exceeding Shallow Zone USEPA MCL (5µg/L)
- Road
- Building
- LHAAP-47
- LHAAP Site

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

SAMPLE RESULTS FOR INTERMEDIATE GROUNDWATER JULY AND SEPTEMBER 2018

LHAAP-47
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

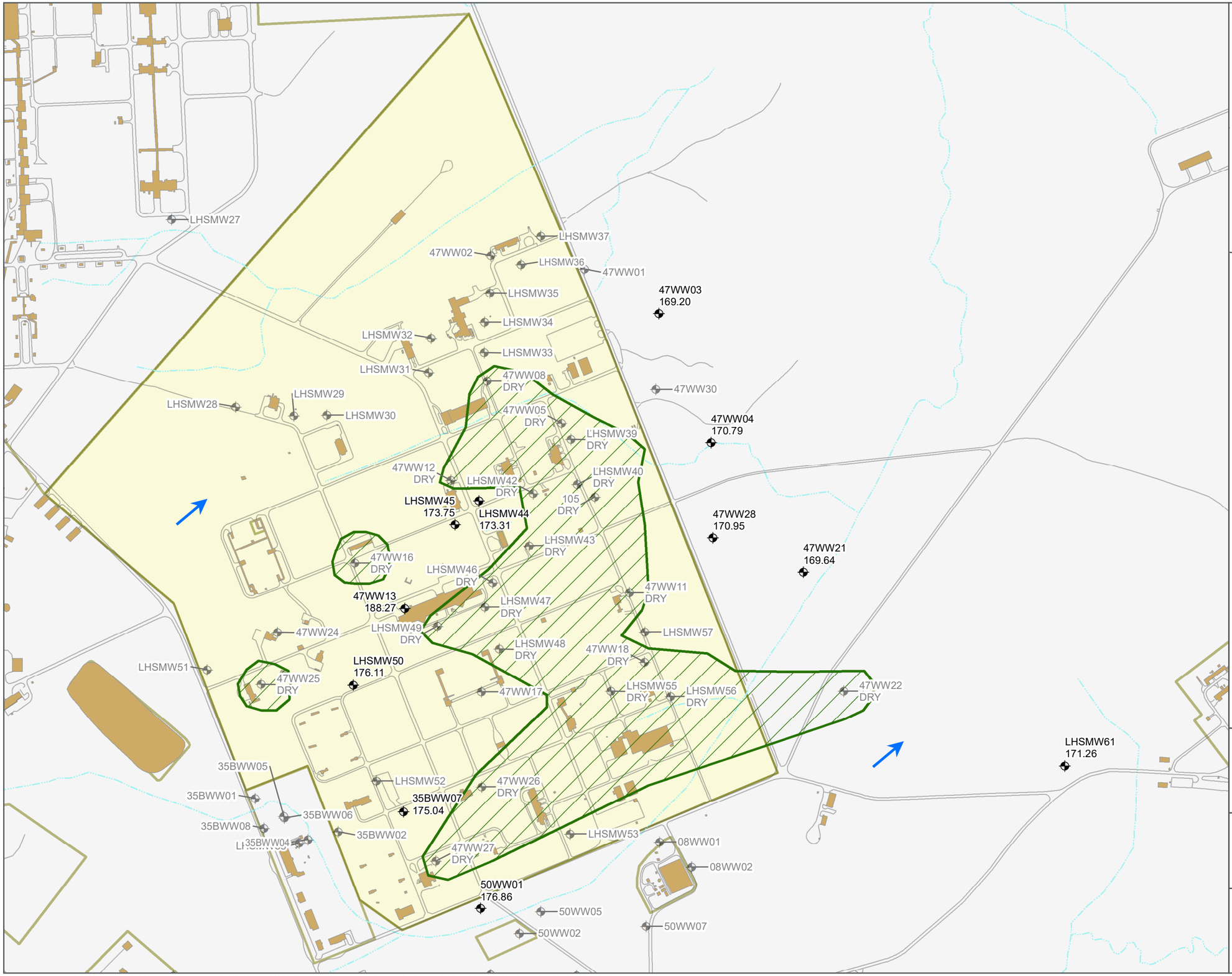
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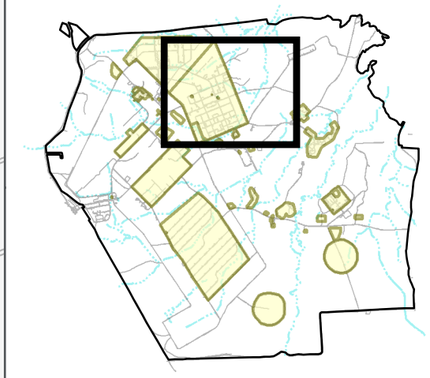
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FIGURE 4

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LEGEND

- Shallow Monitoring Well (Not Measured)
- Shallow Monitoring Well (with Groundwater Elevation)
- Dry Zone
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

NOTES:
Due to a majority of shallow wells being dry, no groundwater elevation contours were created
Groundwater gradient indicated by arrow.

DISCLAIMER: Map information was compiled from the best available sources.
No warranty is made for its accuracy or completeness.

GROUNDWATER ELEVATION MAP
SHALLOW ZONE SEPTEMBER 2018

LHAAP-47
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

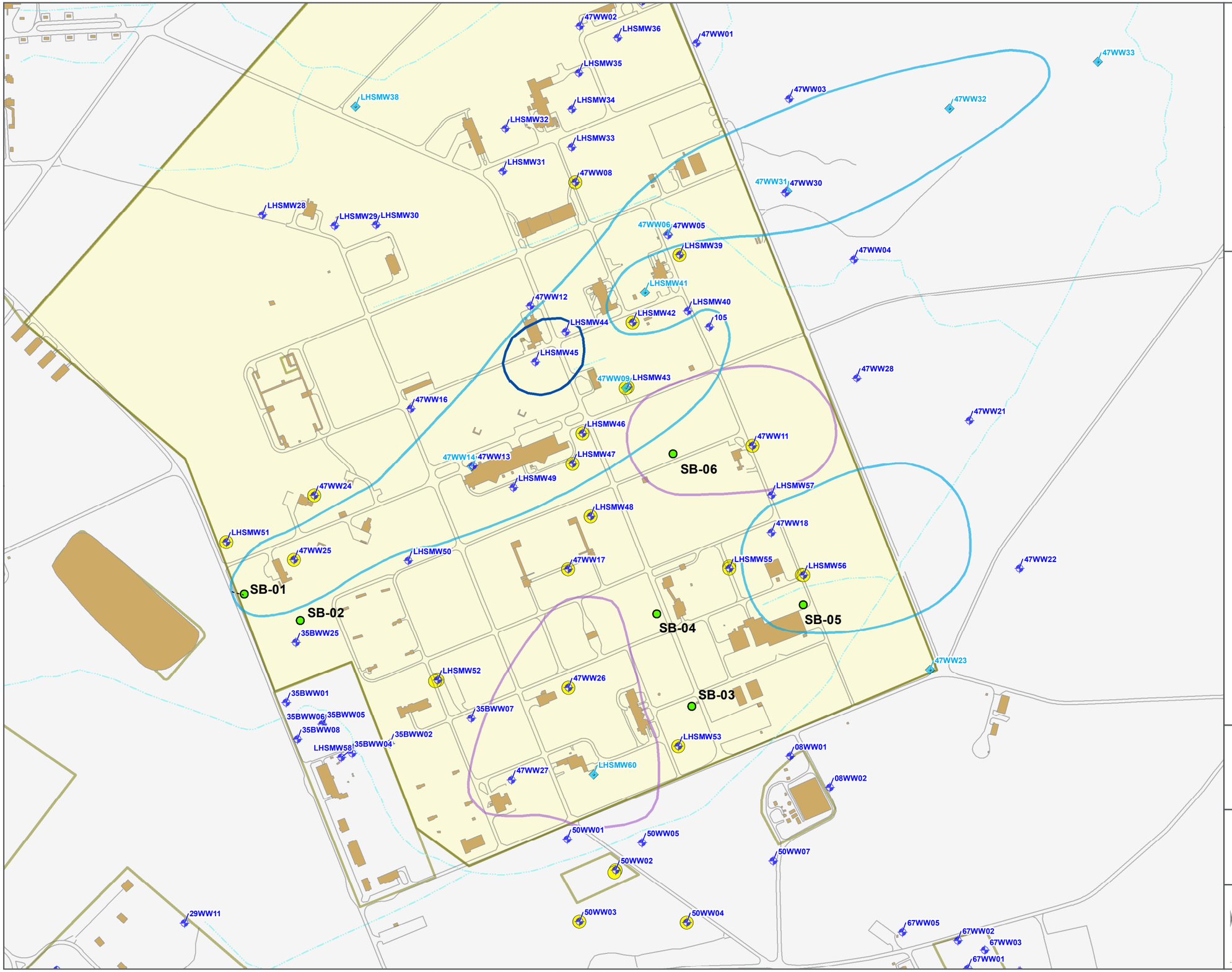
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FIGURE 5

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LEGEND

- Soil Boring Location, Sampled 2018
- Shallow Monitoring Well
- Shallow/Intermediate Monitoring Well
- Well Dry in 2010
- Trichloroethene Exceeding Shallow Zone USEPA MCL (5µg/L), July 2018
- Perchlorate Exceeding Shallow Zone TRRP PCL (17 µg/L), 2010 and prior
- Trichloroethene Exceeding Shallow Zone MCL (5 µg/L), 2010 and prior
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

NOTE: Soil boring data blocks apply to groundwater grab samples. Map data and plume boundries apply to previous sampling results through 2010 .

2010 AND 2018 SHALLOW ZONE TCE AND PERCHLORATE PLUMES

LHAAP-47
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

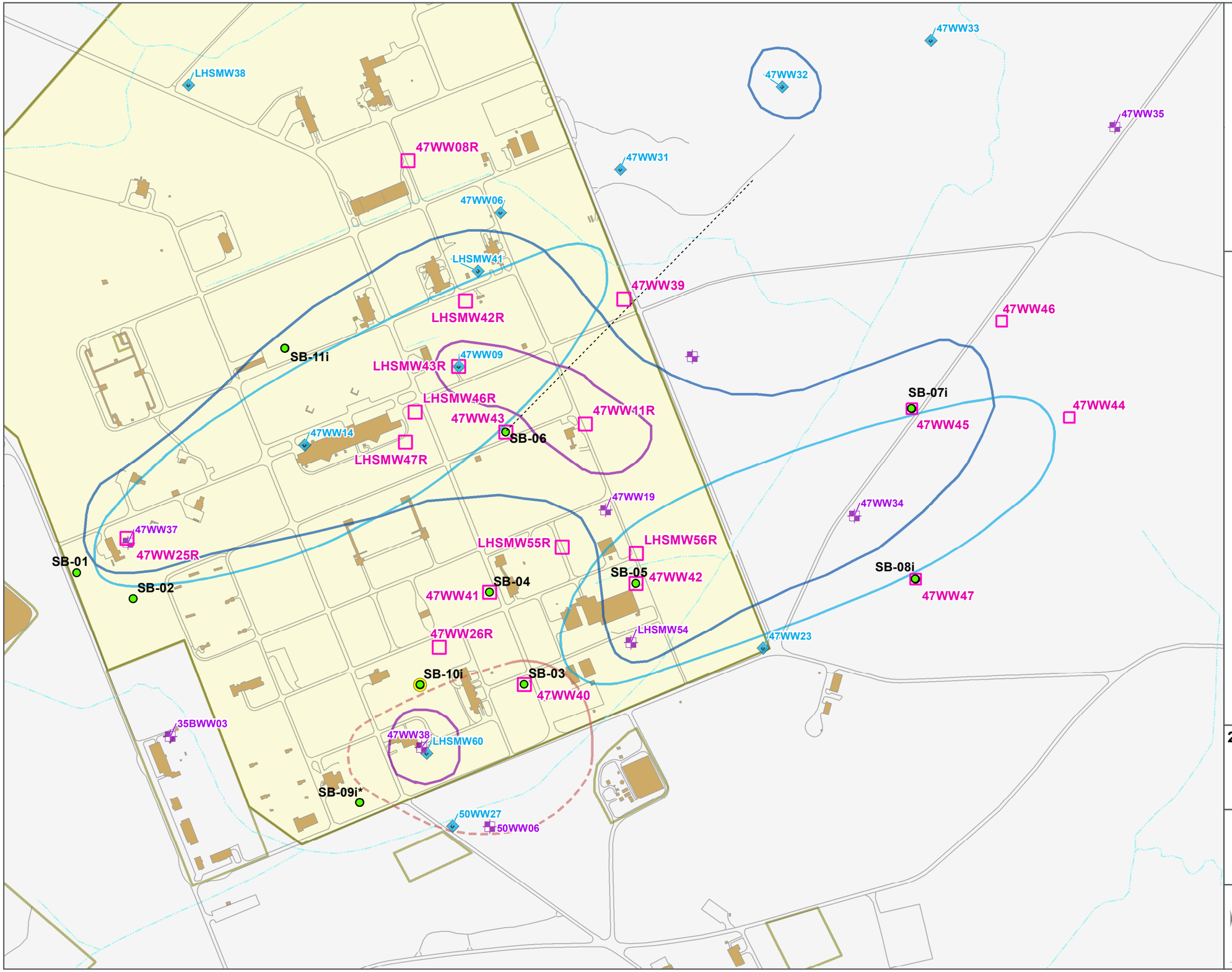
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FIGURE 6

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LEGEND

- Soil Boring Location, Sampled 2018
- Intermediate (Upper) Monitoring Well Location, Installed 2018
- Shallow/Intermediate Monitoring Well
- Intermediate Monitoring Well
- Soil Boring Dry in 2018
- Perchlorate Exceeding Shallow Zone TRRP PCL (17µg/L), July 2018
- Perchlorate Exceeding Intermediate Zone TRRP PCL (17 µg/L) (Dashed Where Inferred), 2010 and prior
- Trichloroethene Exceeding Shallow Zone USEPA MCL (5µg/L), July 2018
- Trichloroethene Exceeding Intermediate Zone MCL (5 µg/L), 2010 and prior
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

NOTES: SB-09i VOCs were reported as soil because lab could not get enough water to decant so ran as solid.
Soil boring data blocks apply to groundwater grab samples. Map data and plume boundaries apply to previous sampling results through 2010.

2010 AND 2018 INTERMEDIATE ZONE TCE AND PERCHLORATE PLUMES

LHAAP-47
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

N

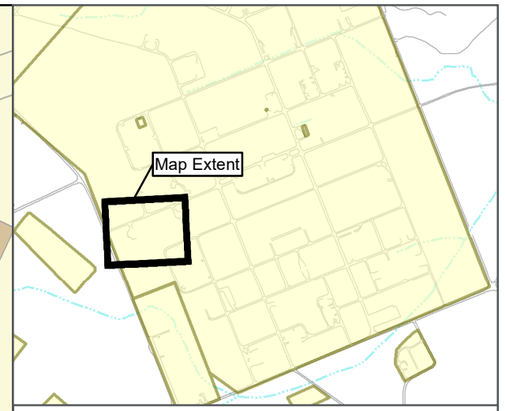
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HDR

FIGURE 7

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DPT-035
DPT-023
47-B
DPT-029
DPT-036
DPT-019
DPT-032
46-B
DPT-028
DPT-018
DPT-022
DPT-033
DPT-024
47DPT14
DPT 009
DPT 008
DPT 006
DPT 002
DPT-027
DPT 005
DPT 001
LHS-3-14
DPT 010
DPT-020
DPT-017
DPT-038
SUMP068
DPT 007
DPT-013
47WW49
LH-S68-01
47WW50
47WW25
LH-S68-02
DPT-012
DPT-014
47WW25R
DPT-037
DPT 003
DPT 004
DPT 011
DPT-021
46-A
DPT-026
DPT-025
DPT-016
DPT-030
DPT-015
DPT-031
41-B-1
41-B
DPT-034
A-9

LEGEND

- HDR November 2019 DPT Boring Locations (up to 40bgs)
- HDR 2020 Shallow DPT Boring Locations
- HDR 2020 Deep and Shallow DPT Boring Locations
- Inter./Upper Inter. MW
- Shallow/Inter. MW
- Shallow MW
- DPT (DPT Boring Shaw, 2011)
- SB (Soil Boring Shaw, 2011)
- SUMP
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

NOTES:
All units are in milligrams per kilogram (mg/kg)
TCE = ND indicates TCE was not detected at all depths
ft bgs = feet below ground surface NS = not sampled

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

PSI NO. 2 DPT LOCATIONS
BUILDING 46A AREA

LHAAP-47 LONGHORN ARMY AMMUNITION PLANT

N

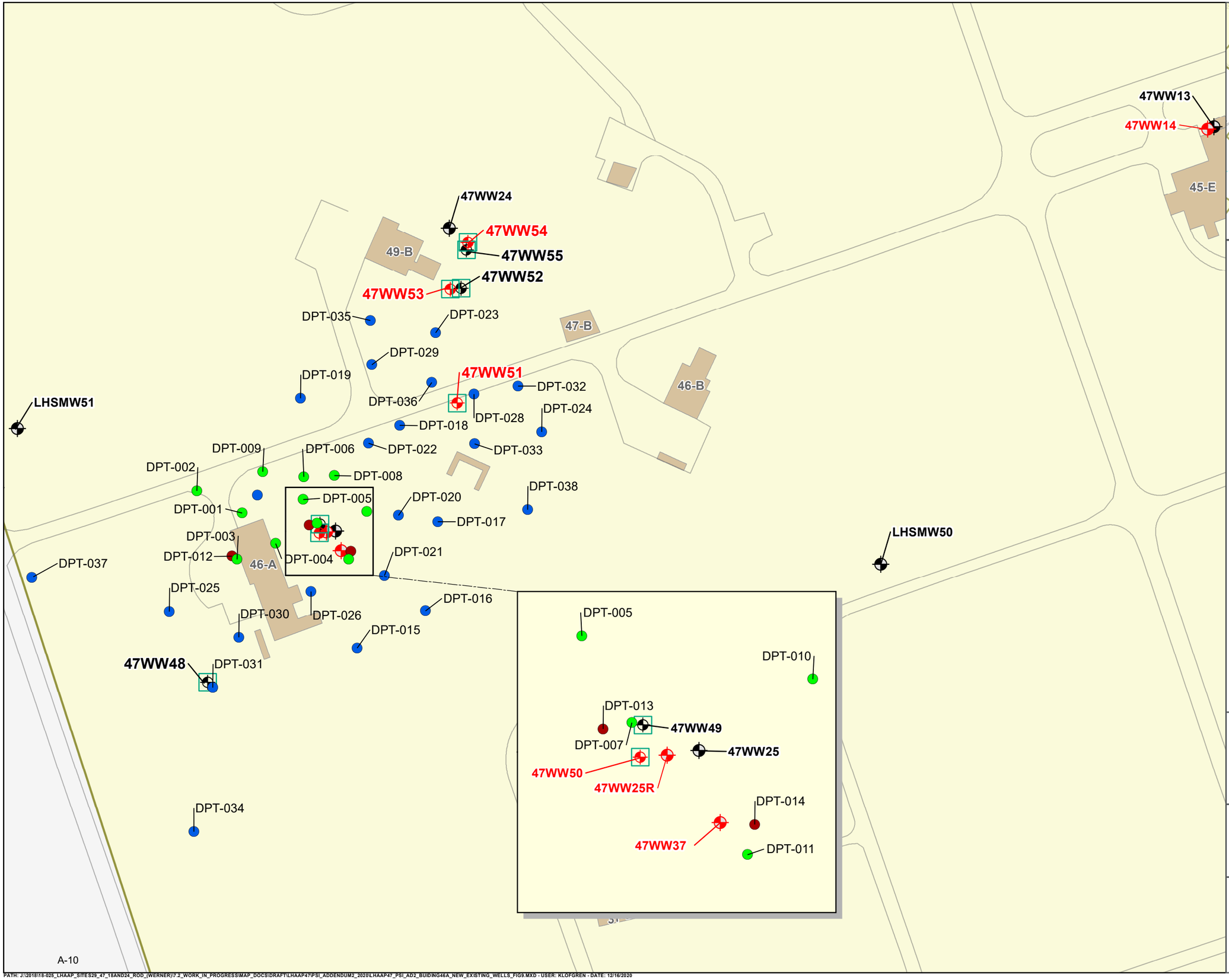
0 50 100
FEET

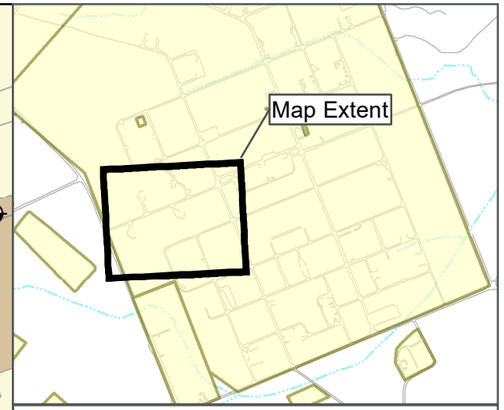
ON THE LINE

HDR

FIGURE 8

PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47\PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_BUIDING46A_20019_2020_DPT_LOCATIONS_FIG8.MXD - USER: KLOFGREN - DATE: 12/16/2020





LEGEND

- New Well Location
- HDR November 2019 DPT Boring
- HDR 2020 Shallow DPT Boring Locations
- HDR 2020 Deep and Shallow DPT Boring Locations
- Existing Inter./Upper Inter. MW
- Existing Shallow MW
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

UI = Upper Intermediate

NOTES: 47WW25R was abandoned and replaced by 47WW50.

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

NEW AND EXISTING WELL LOCATIONS LHAAP-47 BUILDING 46A AREA

LHAAP-47 LONGHORN ARMY AMMUNITION PLANT

N

0 100 200
FEET

ON THE LINE

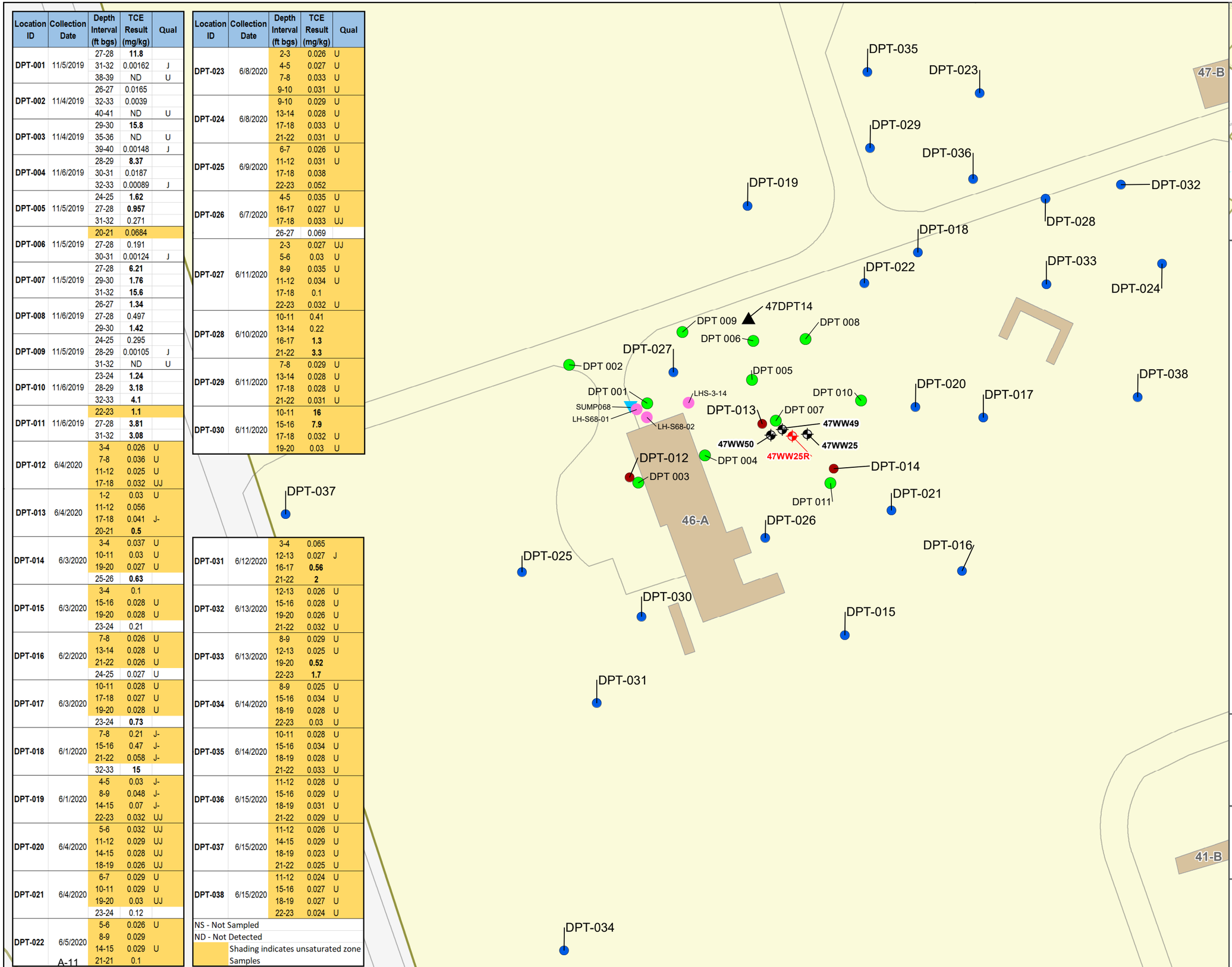
FIGURE 9

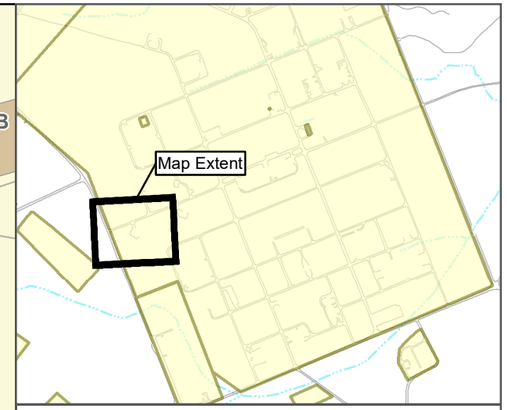
PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_BUIDING46A_NEW_EXISTING_WELLS_FIG9.MXD - USER: KLOFGREN - DATE: 12/16/2020

Location ID	Collection Date	Depth Interval (ft bgs)	TCE Result (mg/kg)	Qual
DPT-001	11/5/2019	27-28	**11.8**	
		31-32	0.00162	J
		38-39	ND	U
DPT-002	11/4/2019	26-27	0.0165	
		32-33	0.0039	
		40-41	ND	U
DPT-003	11/4/2019	29-30	**15.8**	
		35-36	ND	U
		39-40	0.00148	J
DPT-004	11/6/2019	28-29	**8.37**	
		30-31	0.0187	
		32-33	0.00089	J
DPT-005	11/5/2019	24-25	**1.62**	
		27-28	**0.957**	
		31-32	0.271	
DPT-006	11/5/2019	20-21	0.0684	
		27-28	0.191	
		30-31	0.00124	J
DPT-007	11/5/2019	27-28	**6.21**	
		29-30	**1.76**	
		31-32	**15.6**	
DPT-008	11/6/2019	26-27	**1.34**	
		27-28	0.497	
		29-30	**1.42**	
DPT-009	11/5/2019	24-25	0.295	
		28-29	0.00105	J
		31-32	ND	U
DPT-010	11/6/2019	23-24	**1.24**	
		28-29	**3.18**	
		32-33	**4.1**	
DPT-011	11/6/2019	22-23	**1.1**	
		27-28	**3.81**	
		31-32	**3.08**	
DPT-012	6/4/2020	3-4	0.026	U
		7-8	0.036	U
		11-12	0.025	U
		17-18	0.032	UJ
DPT-013	6/4/2020	1-2	0.03	U
		11-12	0.056	
		17-18	0.041	J-
		20-21	**0.5**	
DPT-014	6/3/2020	3-4	0.037	U
		10-11	0.03	U
		19-20	0.027	U
		25-26	**0.63**	
DPT-015	6/3/2020	3-4	0.1	
		15-16	0.028	U
		19-20	0.028	U
		23-24	0.21	
DPT-016	6/2/2020	7-8	0.026	U
		13-14	0.028	U
		21-22	0.026	U
		24-25	0.027	U
DPT-017	6/3/2020	10-11	0.028	U
		17-18	0.027	U
		19-20	0.028	U
		23-24	**0.73**	
DPT-018	6/1/2020	7-8	0.21	J-
		15-16	0.47	J-
		21-22	0.058	J-
		32-33	**15**	
DPT-019	6/1/2020	4-5	0.03	J-
		8-9	0.048	J-
		14-15	0.07	J-
		22-23	0.032	UJ
DPT-020	6/4/2020	5-6	0.032	UJ
		11-12	0.029	UJ
		14-15	0.028	UJ
		18-19	0.026	UJ
DPT-021	6/4/2020	6-7	0.029	U
		10-11	0.029	U
		19-20	0.03	UJ
		23-24	0.12	
DPT-022	6/5/2020	5-6	0.026	U
		8-9	0.029	
		14-15	0.029	U
		21-21	0.1	

Location ID	Collection Date	Depth Interval (ft bgs)	TCE Result (mg/kg)	Qual
DPT-023	6/8/2020	2-3	0.026	U
		4-5	0.027	U
		7-8	0.033	U
		9-10	0.031	U
DPT-024	6/8/2020	9-10	0.029	U
		13-14	0.028	U
		17-18	0.033	U
		21-22	0.031	U
DPT-025	6/9/2020	6-7	0.026	U
		11-12	0.031	U
		17-18	0.038	
		22-23	0.052	
DPT-026	6/7/2020	4-5	0.035	U
		16-17	0.027	U
		17-18	0.033	UJ
		26-27	0.069	
DPT-027	6/11/2020	2-3	0.027	UJ
		5-6	0.03	U
		8-9	0.035	U
		11-12	0.034	U
		17-18	0.1	
		22-23	0.032	U
DPT-028	6/10/2020	10-11	0.41	
		13-14	0.22	
		16-17	**1.3**	
		21-22	**3.3**	
DPT-029	6/11/2020	7-8	0.029	U
		13-14	0.028	U
		17-18	0.028	U
		21-22	0.031	U
DPT-030	6/11/2020	10-11	**16**	
		15-16	**7.9**	
		17-18	0.032	U
		19-20	0.03	U
DPT-031	6/12/2020	3-4	0.065	
		12-13	0.027	J
		16-17	**0.56**	
		21-22	**2**	
DPT-032	6/13/2020	12-13	0.026	U
		15-16	0.028	U
		19-20	0.026	U
		21-22	0.032	U
DPT-033	6/13/2020	8-9	0.029	U
		12-13	0.025	U
		19-20	**0.52**	
		22-23	**1.7**	
DPT-034	6/14/2020	8-9	0.025	U
		15-16	0.034	U
		18-19	0.028	U
		22-23	0.03	U
DPT-035	6/14/2020	10-11	0.028	U
		15-16	0.034	U
		18-19	0.028	U
		21-22	0.033	U
DPT-036	6/15/2020	11-12	0.028	U
		15-16	0.029	U
		18-19	0.031	U
		21-22	0.029	U
DPT-037	6/15/2020	11-12	0.026	U
		14-15	0.029	U
		18-19	0.023	U
		21-22	0.025	U
DPT-038	6/15/2020	11-12	0.024	U
		15-16	0.027	U
		18-19	0.027	U
		22-23	0.024	U

NS - Not Sampled
ND - Not Detected
Shading indicates unsaturated zone Samples





LEGEND

- HDR November 2019 DPT Boring Locations (up to 40bgs)
- HDR 2020 Shallow DPT Boring Locations
- HDR 2020 Deep and Shallow DPT Boring Locations
- Inter./Upper Inter. MW
- Shallow MW
- DPT (DPT Boring Shaw, 2011)
- SB (Soil Boring Shaw, 2011)
- SUMP
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

Uniform depth of 23 ft below ground surface based on historical data is used to define the depth of the Unsaturated Zone.

NOTES:
Bold Results indicate concentration greater than GWP-Ind MSC of 0.5 mg/kg.
All units are in milligrams per kilogram (mg/kg)
TCE = ND indicates TCE was not detected at all depths
ft bgs = feet below ground surface NS = not sampled

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

PSI NO. 2 DPT SOIL RESULTS BUILDING 46A AREA

LHAAP-47 LONGHORN ARMY AMMUNITION PLANT

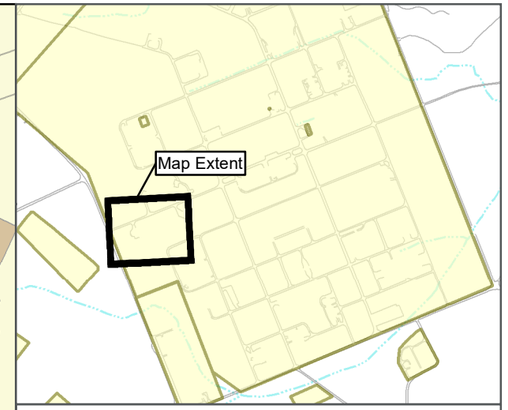
N
0 50 100
FEET

ON THE LINE

FIGURE 10

PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47\PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_BUIDING46A_DPT_TCE_SOIL_RESULTS_FIG10.MXD - USER: KLOFGREN - DATE: 12/16/2020

DPT-035
TCE = ND
DPT-023
TCE = ND
47-B
DPT-029
TCE = ND
DPT-036
TCE = ND
TCE = 3.3 mg/kg
21 - 22 ft bgs
DPT-028
DPT-032
TCE = ND
46-B
DPT-019
TCE = 0.07 mg/kg
14 - 15 ft bgs
DPT-018
TCE = 0.47 mg/kg
15 - 16 ft bgs
TCE = ND
DPT-024
DPT-022
TCE = 0.1 mg/kg
21 - 21 ft bgs
DPT-033
TCE = 1.7 mg/kg
22 - 23 ft bgs
TCE = .1 mg/kg
17 - 18 ft bgs
TCE = NS
47DPT14
DPT 009
DPT 008
TCE = NS
DPT 002
TCE = NS
DPT 006
TCE = NS
DPT-027
TCE = NS
DPT 005
TCE = NS
TCE = 1.24 mg/kg
23 - 24 ft bgs
DPT-038
TCE = ND
LHS-3-14
DPT 001
DPT 010
TCE = NS
DPT-013
DPT 007
47WW49
SUMP068
LH-S68-01
LH-S68-02
TCE = .5 mg/kg
20 - 21 ft bgs
47WW25
47WW25R
DPT-017
TCE = ND
DPT-020
TCE = ND
46-A
DPT 004
47WW50
TCE = NS
DPT-012
TCE = ND
DPT-014
TCE = ND
DPT-037
TCE = ND
DPT 003
TCE = NS
DPT 011
TCE = 1.1 mg/kg
22 - 23 ft bgs
DPT-021
TCE = ND
DPT-026
TCE = ND
DPT-025
TCE = 0.052 mg/kg
22 - 23 ft bgs
DPT-016
TCE = ND
DPT-030
TCE = 16 mg/kg
10 - 11 ft bgs
DPT-015
TCE = .21 mg/kg
23 - 24 ft bgs
DPT-031
TCE = 2 mg/kg
21 - 22 ft bgs
41-B-1
41-B
DPT-034
TCE = ND
A-12



LEGEND

- HDR November 2019 DPT Boring Locations (up to 40bgs)
- HDR 2020 Shallow DPT Boring Locations
- HDR 2020 Deep and Shallow DPT Boring Locations
- Inter./Upper Inter. MW
- Shallow MW
- DPT (DPT Boring Shaw, 2011)
- SB (Soil Boring Shaw, 2011)
- SUMP

Contaminant Level

- TCE > 0.5 mg/kg GWP-Ind-MSC
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

The posted results represent the maximum field laboratory concentration for each boring.

Unsaturated zone is defined as depths less than 23 ft below ground surface.

NOTES:
All units are in milligrams per kilogram (mg/kg)
TCE = ND indicates TCE was not detected at all depths
ft bgs = feet below ground surface NS = not sampled

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

PSI NO. 2 UNSATURATED ZONE DPT TCE SOIL CONTOUR BUILDING 46A AREA

LHAAP-47 LONGHORN ARMY AMMUNITION PLANT

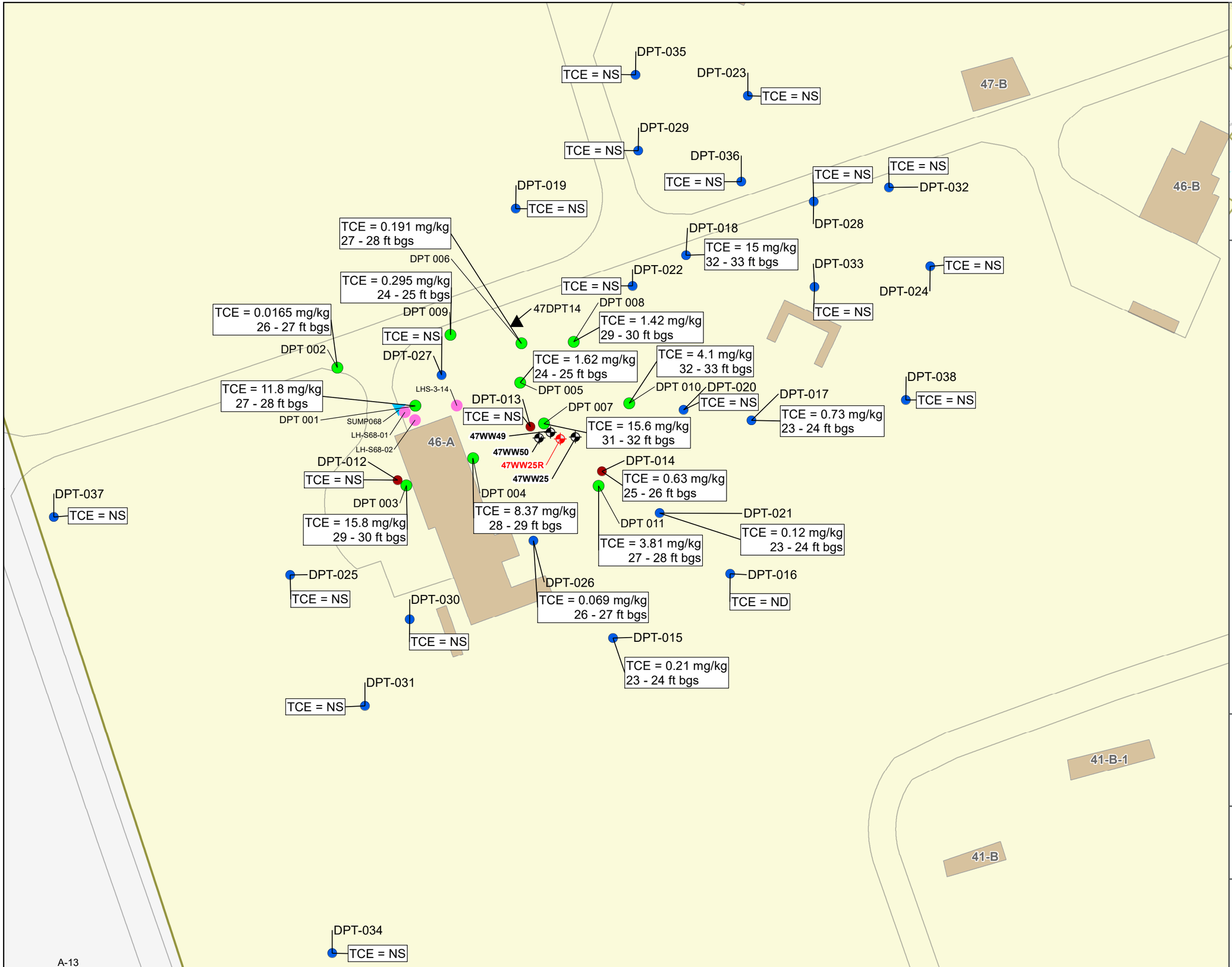
N

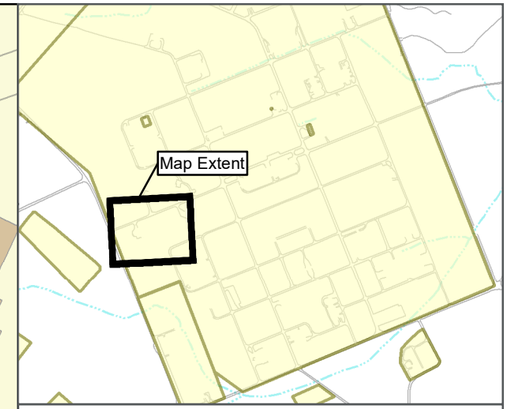
0 50 100
FEET

ON THE LINE

FIGURE 11

PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_BUIDING46A_2019_2020_DPT_TCE_ISO_CONCENTRATION_UNSATURATED_FIG11.MXD - USER: KLOFGREN - DATE: 2/11/2021





LEGEND

- HDR November 2019 DPT Boring Locations (up to 40bgs)
- HDR 2020 Shallow DPT Boring Locations
- HDR 2020 Deep and Shallow DPT Boring Locations
- Inter./Upper Inter. MW
- Shallow MW
- DPT (DPT Boring Shaw, 2011)
- SB (Soil Boring Shaw, 2011)
- SUMP
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

The posted results represent the maximum field laboratory concentration for each boring.

Maximum reported concentrations shown. Saturated Zone defined as depths greater than 23 ft below ground surface.

NOTES:
All units are in milligrams per kilogram (mg/kg)
NS = Not Sampled ND = Not Detected
ft bgs = feet below ground surface

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

PSI NO. 2 SATURATED ZONE DPT TCE SOIL RESULTS AND DEPTHS BUILDING 46A AREA

LHAAP-47 LONGHORN ARMY AMMUNITION PLANT

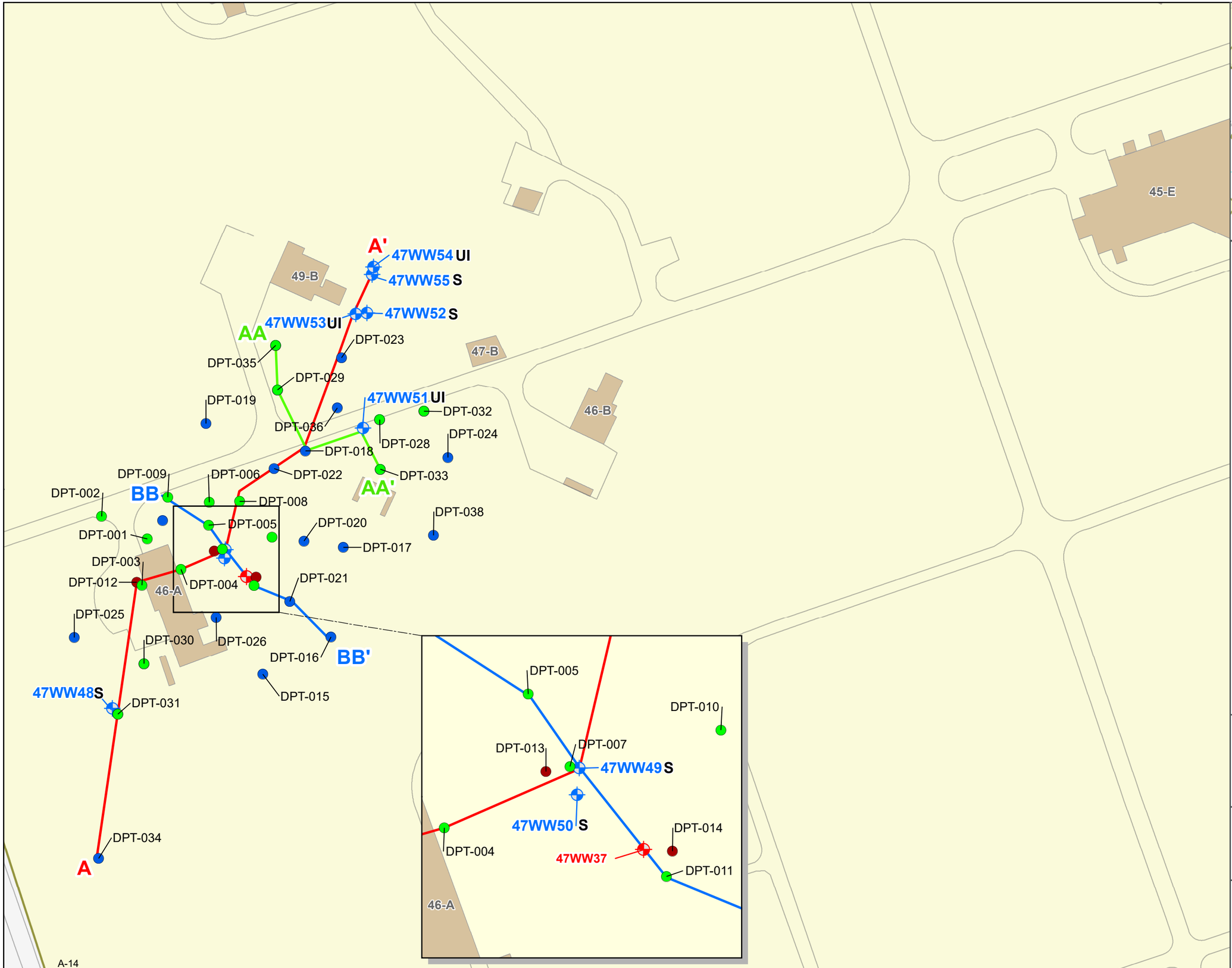
N

0 50 100
FEET

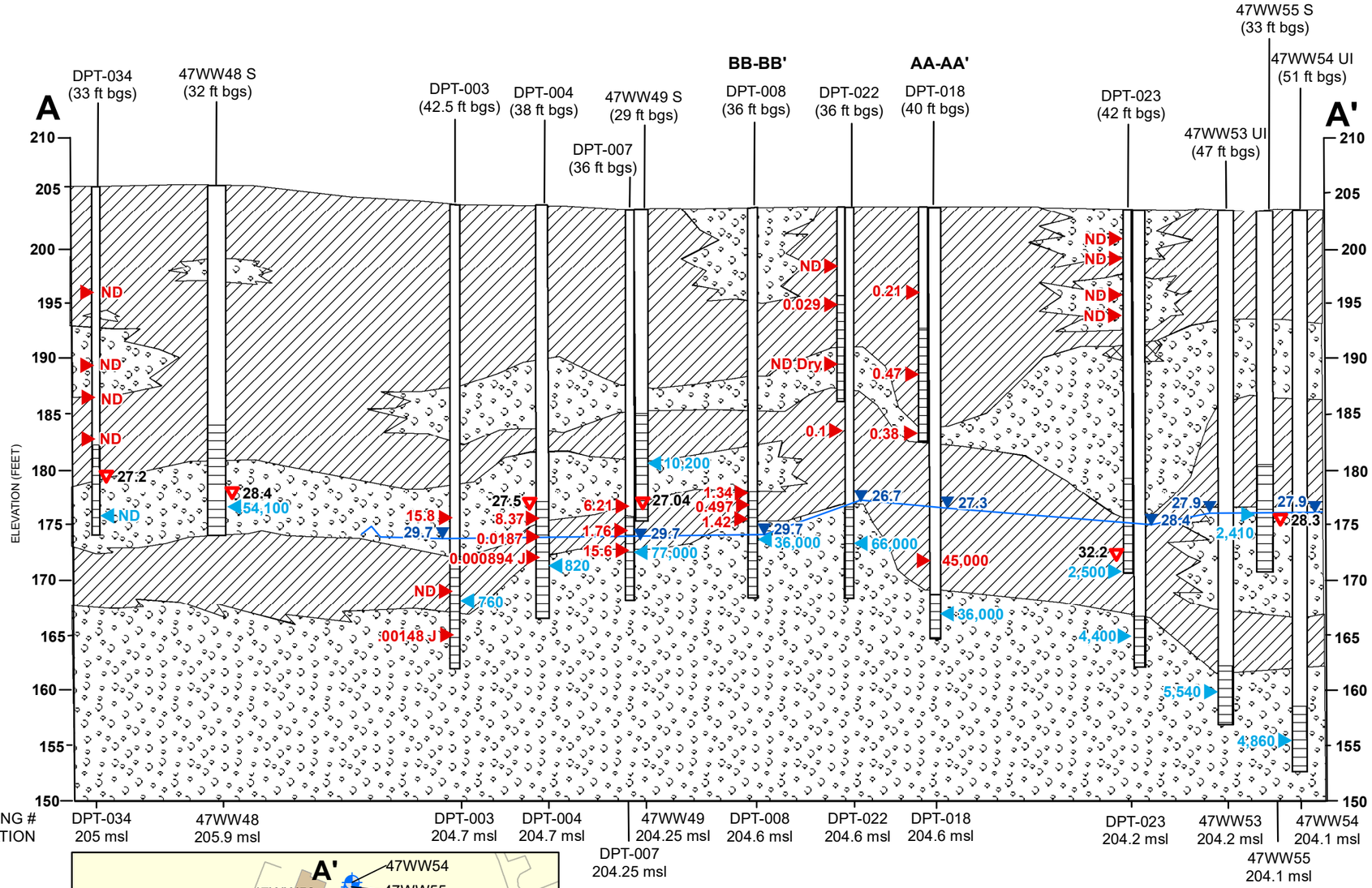
ON THE LINE

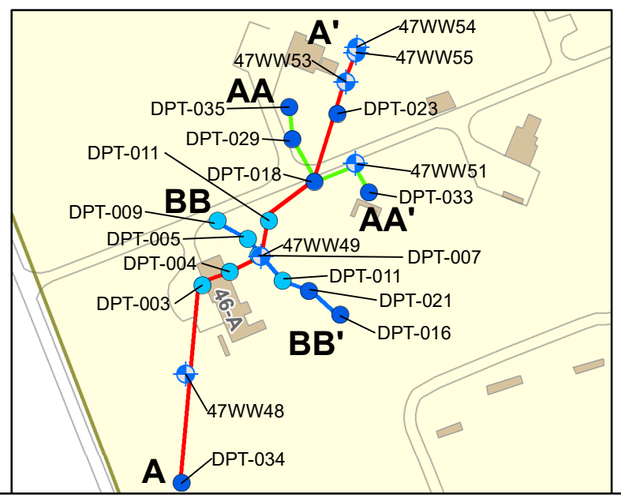
FIGURE 12

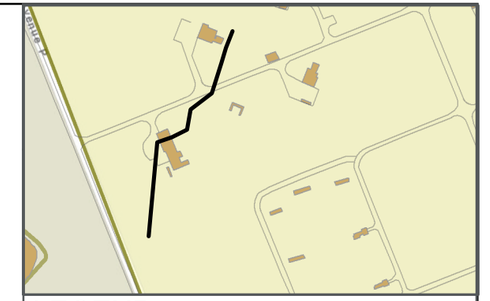
PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47\PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_BUIDING46A_2019_2020_DPT_TCE_ISO_CONCENTRATION_SATURATED_FIG12.MXD - USER: KLOFGREN - DATE: 2/11/2021



PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47\PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_BUIDING46A_NEW_EXISTING_WELLS_UPDATED.MXD - USER: EBOWLIN - DATE: 12/14/2020







LEGEND

- Clay, Clay with Fine Sand, Silt and Sand/Silty Lenses
- Silty Sands, Sand Silt Mixtures
- Well
- Screen
- No Recovery
- UI Groundwater Elevation (ft bgs)
- Shallow Groundwater Elevation (ft bgs)
- Groundwater TCE Sample Interval and Results
- Soil TCE Sample Interval and Results
- 2019 DPT Boring
- 2020 Deep and Shallow DPT Boring
- 2020 Newly Installed Wells
- Groundwater Table Line

Cross Sections

- A-A'
- AA-AA'
- BB-BB'

NOTES: Groundwater results reported in micrograms per liter
Soil results reported in milligrams per kilogram
ND- Nondetect
J- Estimated
S- Shallow monitoring well
UI- Upper Intermediate monitoring well

DATA SOURCES: HDR

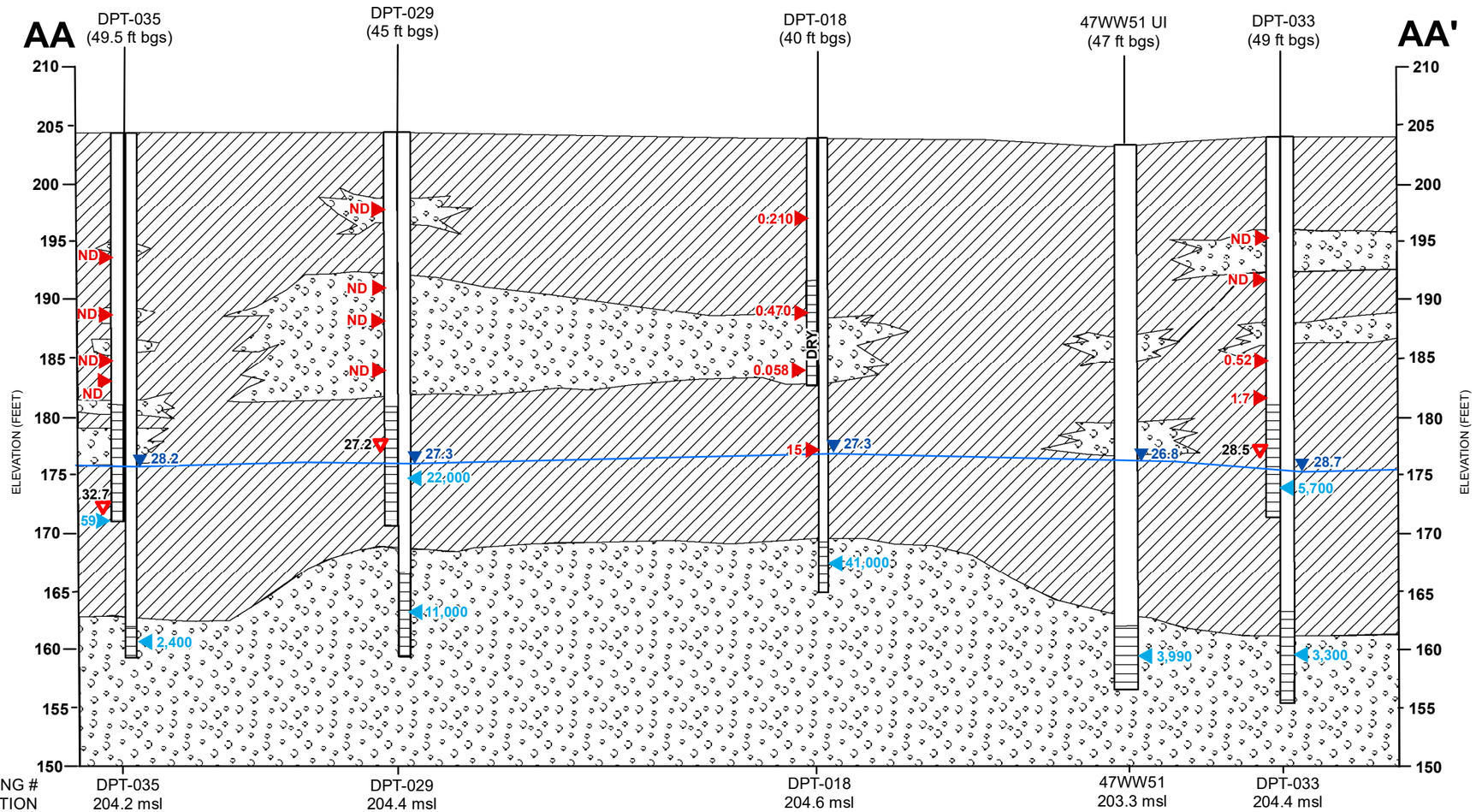
DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

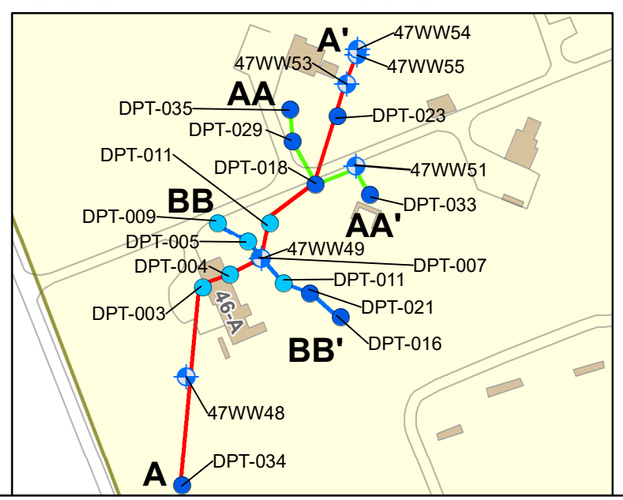
SCALE: HORIZONTAL 1 cm = 27'
VERTICAL AS SHOWN

GEOLOGIC CROSS SECTION A-A'

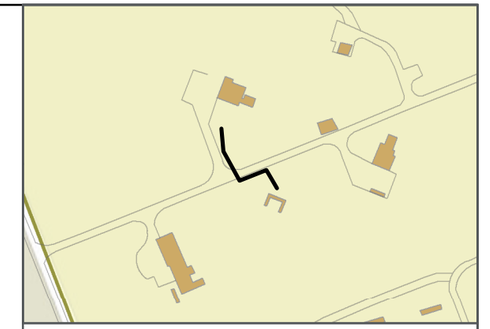
LHAAP-47 POST SCREENING INVESTIGATION ADDENDUM 2 REPORT

FIGURE 14





SCALE: HORIZONTAL 1 cm = 10'
VERTICAL AS SHOWN



LEGEND

- Clay, Clay with Fine Sand, Silt and Sand/Silty Lenses
- Silty Sands, Sand Silt Mixtures
- Well
- Screen
- UI Groundwater Elevation (ft bgs)
- Shallow Groundwater Elevation (ft bgs)
- Groundwater TCE Sample Interval and Results
- Soil TCE Sample Interval and Results
- 2019 DPT Boring
- 2020 Deep and Shallow DPT Boring
- 2020 Newly Installed Wells
- Groundwater Table Line

Cross Sections

- A-A'
- AA-AA'
- BB-BB'

NOTES: Groundwater results reported in micrograms per liter
Soil results reported in milligrams per kilogram
ND- Nondetect
J- Estimated
UI- Upper Intermediate monitoring well

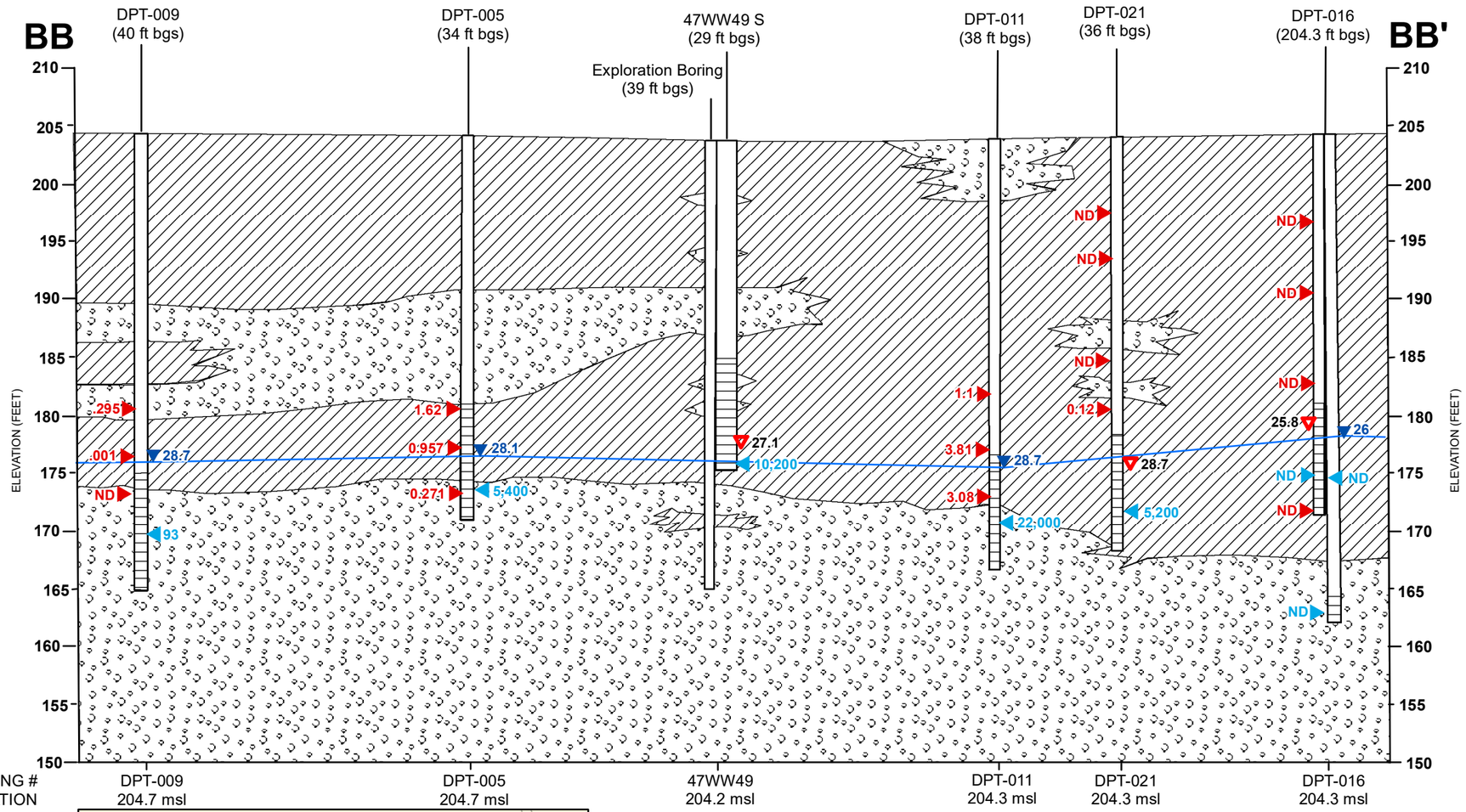
DATA SOURCES: HDR

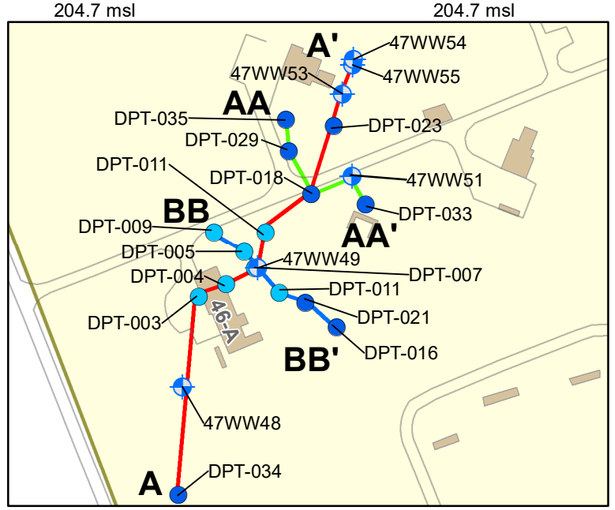
DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

GEOLOGIC CROSS SECTION AA-AA'

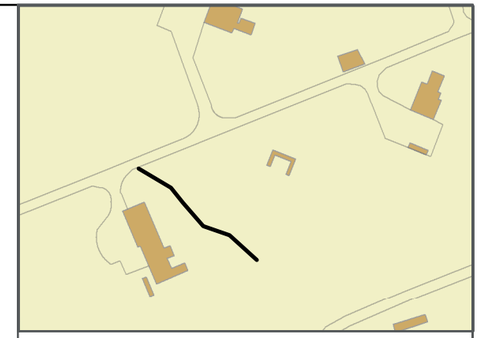
LHAAP-47 POST SCREENING
INVESTIGATION ADDENDUM 2 REPORT

FIGURE 15





SCALE: HORIZONTAL 1 cm = 10'
VERTICAL AS SHOWN



LEGEND

- Clay, Clay with Fine Sand, Silt and Sand/Silty Lenses
- Silty Sands, Sand Silt Mixtures
- Well
- Screen
- UI Groundwater Elevation (ft bgs)
- Shallow Groundwater Elevation (ft bgs)
- Groundwater TCE Sample Interval and Results
- Soil TCE Sample Interval and Results
- 2019 DPT Boring
- 2020 Deep and Shallow DPT Boring
- 2020 Newly Installed Wells
- Groundwater Table Line

Cross Sections

- A-A'
- AA-AA'
- BB-BB'

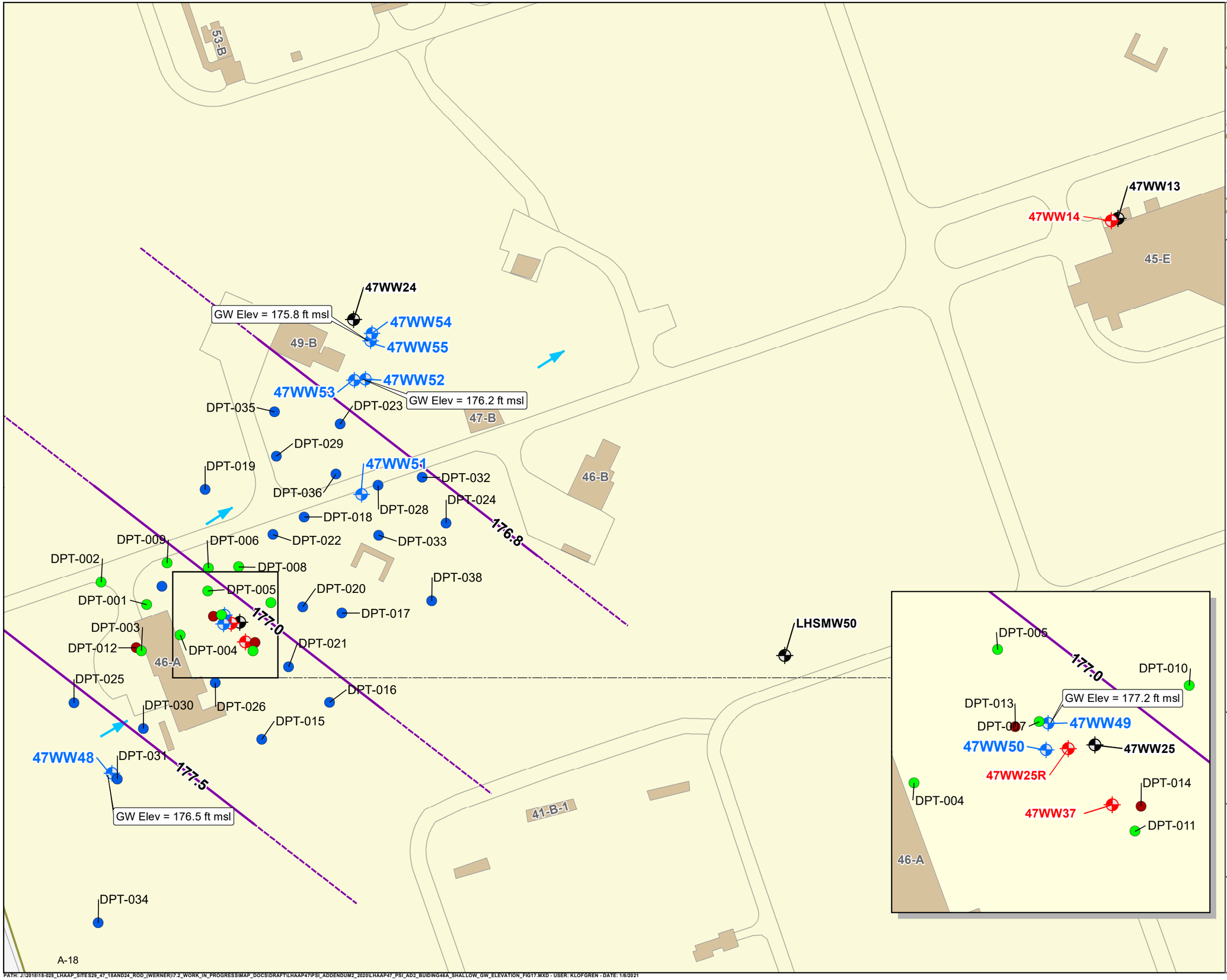
NOTES: Groundwater results reported in micrograms per liter
Soil results reported in milligrams per kilogram
ND- Nondetect
J- Estimated
S- Shallow monitoring well

DATA SOURCES: HDR
DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

GEOLOGIC CROSS SECTION BB-BB'

LHAAP-47 POST SCREENING
INVESTIGATION ADDENDUM 2 REPORT

FIGURE 16



DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

SHALLOW GROUNDWATER ELEVATION LHAAP-47 BUILDING 46A AREA

LHAAP-47 LONGHORN ARMY AMMUNITION PLANT

N

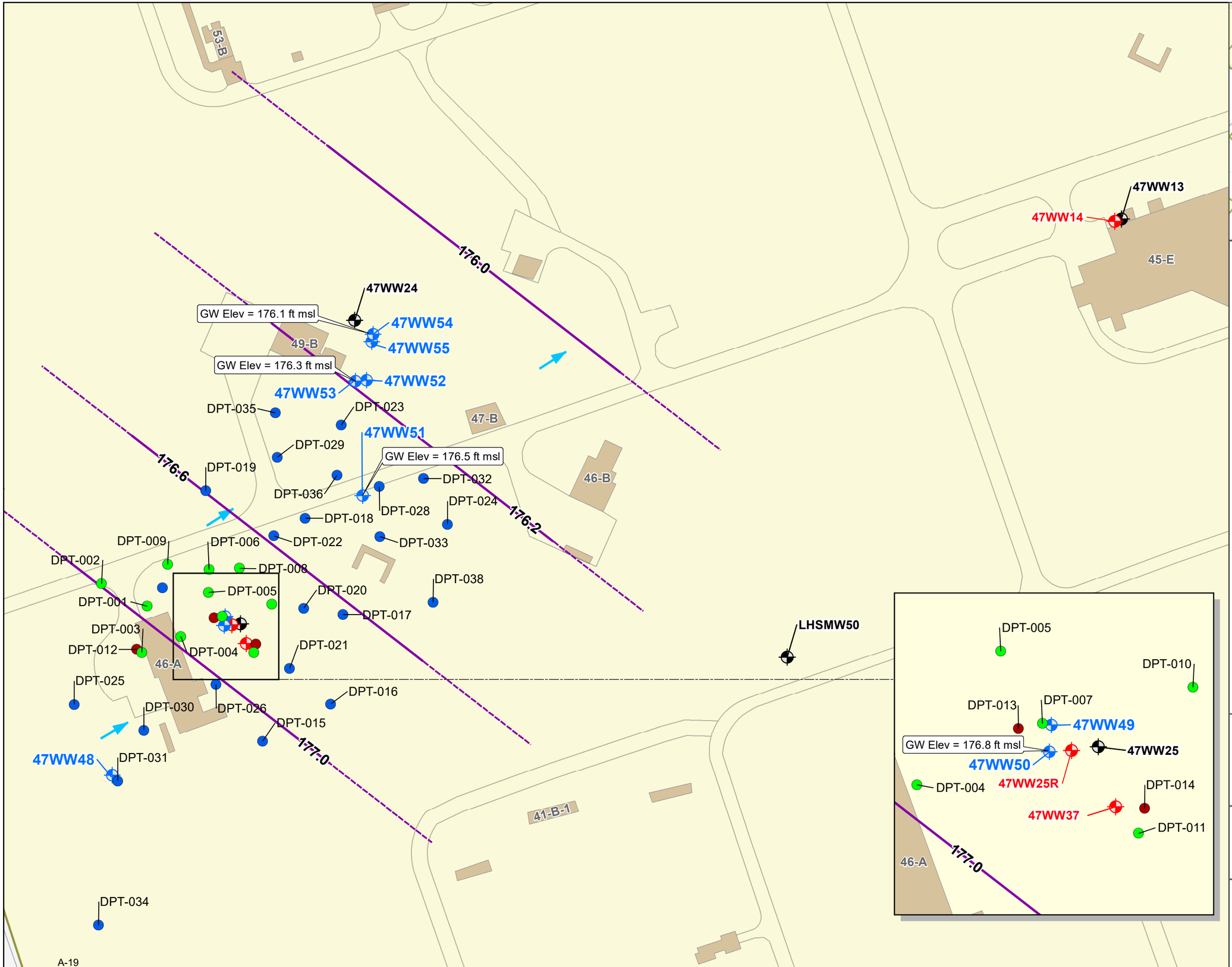
0 100 200
FEET

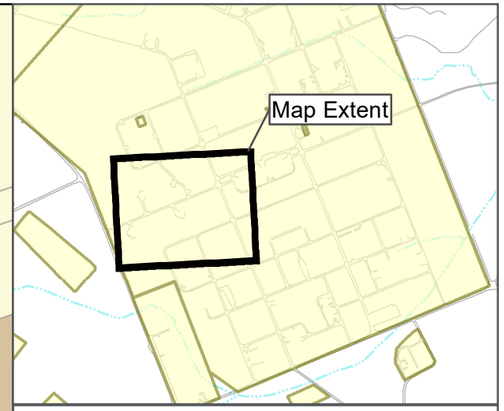
ON THE LINE

HDR

FIGURE 17

PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_BUIDING46A_SHALLOW_GW_ELEVATION_FIG17.MXD - USER: KLOFGREN - DATE: 1/8/2021





LEGEND

- New Well Location
- HDR November 2019 DPT Boring
- HDR 2020 Shallow DPT Boring Locations
- HDR 2020 Deep and Shallow DPT Boring Locations
- Inter./Upper Inter. MW
- Shallow MW
- Groundwater Flow Direction
- Groundwater Elevation Contours (ft, MSL)
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

UPPER INTERMEDIATE GROUNDWATER ELEVATION LHAAP-47 BUILDING 46A AREA

LHAAP-47 LONGHORN ARMY AMMUNITION PLANT

N

0 100 200
FEET

ON THE LINE

FIGURE 18

PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_BUIDING46A_UPPERINTER_GW_ELEVATION_FIG18.MXD - USER: KLOFGREN - DATE: 1/8/2021

TCE Sh = 4.3 µg/L
47WW24
47WW54
TCE Sh = 2,410 µg/L
47WW55
TCE Sh = 5,900 µg/L
47WW52
47WW53
TCE Sh = 59 µg/L
DPT-035
DPT-023
TCE Sh = 2,500 µg/L
TCE Sh = 22,000 µg/L
DPT-029
TCE Sh = NA Dry
DPT-036
TCE Sh = 7 µg/L
DPT-032
DPT-019
47WW51
DPT-028
TCE Sh = NA Dry
TCE Sh = NA Dry
DPT-018
LHSMW51
TCE Sh = NA Dry
DPT-022
TCE Sh = NA Dry
DPT-033
TCE Sh = ND
TCE Sh = ND
DPT-024
47DPT14
DPT 009
DPT 008
DPT 006
TCE Sh = 3,500 µg/L
DPT-027
DPT 002
DPT 005
DPT 010
DPT 001
LHS-3-14
DPT 007
SUMP068
LH-S68-01
DPT-013
47WW49
LH-S68-02
47WW25
TCE Sh = 57,000 µg/L
47WW50
47WW25R
DPT-012
DPT 004
47WW37
DPT-014
TCE Sh = 10,200 µg/L
DPT-037
TCE Sh = 21,000 µg/L
DPT 003
DPT 011
DPT-021
46-A
DPT-026
DPT-025
TCE Sh = ND
DPT-016
TCE Sh = NA Dry
TCE Sh = 660 µg/L
DPT-030
DPT-015
TCE Sh = ND
SB-01
DPT-031
TCE Sh = ND
TCE Sh = NA Dry
47WW48
TCE Sh = 14,000 µg/L
TCE Sh = 240 µg/L
TCE Sh = NA Dry
TCE Sh = 54,100 µg/L
TCE Sh = 41,000 µg/L
TCE Sh = ND
DPT-034
TCE Sh = ND
SB-02
DPT-020
DPT-017
DPT-038
No Well Set, Soil Only
TCE Sh = 5,700 µg/L
TCE Sh = 3,000 µg/L
TCE Sh = NA Dry
49-B
47WW14
45-E
47WW13
TCE Sh = 120 µg/L
LHSMW50
TCE Sh = 0.6 µg/L
35BWW25
TCE Sh = 13, 5/2020
42-B
41-B-1
41-B
A-20

Map Extent

LEGEND

- HDR November 2019 DPT Boring Locations (up to 40bgs)
- HDR 2020 Shallow DPT Boring Location
- HDR 2020 Deep and Shallow DPT Boring Location
- Inter./Upper Inter. MW
- Shallow MW

Contaminant Levels

- TCE > 5 µg/L
- TCE > 5,000 µg/L
- TCE > 10,000 µg/L
- TCE > 20,000 µg/L

- DPT (DPT Boring Shaw, 2011)
- SB (Soil Boring Shaw, 2011)
- SUMP
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

NOTES: All units are in microgram per liter (ug/L)
J = Estimated Value NA = not analyzed
Sh = Shallow Zone NA Dry = not analyzed, dry well
ND = not detected

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

2020 SHALLOW GROUNDWATER TCE ISO-CONCENTRATION CONTOURS BUILDING 46A AREA

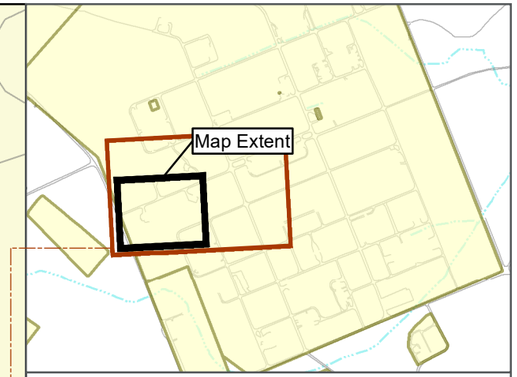
LHAAP-47 LONGHORN ARMY AMMUNITION PLANT

N
0 50 100
FEET

ON THE LINE

FIGURE 19

PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_BUIDING46A_SHALLOW_GW_ISO_CONCENTRATION_CONTOURS_FIG19.MXD - USER: KLOFGREN - DATE: 2/11/2021



LEGEND

- HDR November 2019 DPT Boring Locations (up to 40bgs)
- HDR 2020 Shallow DPT Boring Location
- HDR 2020 Deep and Shallow DPT Boring Location
- Inter./Upper Inter. MW
- Shallow MW

Contaminant Levels

- TCE > 5 µg/L
- TCE > 5,000 µg/L
- TCE > 10,000 µg/L
- TCE > 20,000 µg/L
- DPT (DPT Boring Shaw, 2011)
- SB (Soil Boring Shaw, 2011)
- SUMP
- Road
- Stream
- Building
- LHAAP-47
- LHAAP Site

**The TCE concentration for 47WW37 is not reflected in the isoconcentration contour since this Intermediate Zone well is screened 20 feet deeper than surrounding UI Zone wells.*
**DPT-001 through DPT-011 and 47WW25R are screened in the Sand-laminated Clay/Upper Intermediate Zone.*

NOTES: All units are in microgram per liter (ug/L)
J = Estimated Value
UI = Upper Intermediate Zone
ND = not detected
NA = not analyzed

DISCLAIMER: Map information was compiled from the best available sources. No warranty is made for its accuracy or completeness.

2020 UPPER INTERMEDIATE GROUNDWATER TCE ISO-CONCENTRATION CONTOURS BUILDING 46A AREA

LHAAP-47 LONGHORN ARMY AMMUNITION PLANT

N

0 50 100
FEET

ON THE LINE

FIGURE 20

A-21

PATH: J:\2018\18-025_LHAAP_SITES29_47_18AND24_ROD_(WERNER)\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\LHAAP47PSI_ADDENDUM2_2020\LHAAP47_PSI_AD2_BUIDING46A_UPPERINTER_GW_ISO_CONCENTRATION_CONTOURS_FIG20.MXD - USER: KLOFGREN - DATE: 2/11/2021

Attachment 2

Tables

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Table 1. 2019 DPT Boring Summary Data

Boring ID	Total Boring Depth (ft bgs)	Interpreted Upper Clay Contact Depth (ft bgs)	Interpreted Upper Intermediate Contact Depth (ft bgs)	Screen Completion Zone	Screen Interval (ft bgs)	Length of Screen Set Into Upper Intermediate Sand (ft)	Temp Casing Stickup (ft ags)	Water Level (ft btoc)	Water Level (ft bgs)
DPT-001	40	29.5	33.5	C/UI	30-40	6.5	0.3	28.94	28.64
DPT-002	44	27	40	C/UI	34-44	4	1.15	31.02	29.87
DPT-003	42.5	32.5	37.5	C/UI	30-40	2.5	2.9	31.29	28.39
DPT-004	38	29	32.5	C/UI	28-38	5.5	2.02	30.43	28.41
DPT-005	34	24	31	C/UI	24-34	3	1.06	29.07	28.01
DPT-006	35	24	30	C/UI	25-35	5	0.35	27.48	27.13
DPT-007	36	27.5	31.5	C/UI	26-36	4.5	4.1	32.21	28.11
DPT-008	36	26	29	C/UI	26-36	7	3.97	33.41	29.44
DPT-009	40	25	31.5	C/UI	30-40	8.5	0.4	29.08	28.68
DPT-010	36	23.5	33	C/UI	26-36	3	4.1	32.98	28.88
DPT-011	38	23	32	C/UI	28-38	6	1.85	30.58	28.73

ft ags = feet above ground surface
ft bgs = feet below ground surface
btoc = below top of casing
C/UI = Clay/Upper Intermediate Zone

Table 2. Temporary Well Summary Data

Boring ID	Total Boring Depth (ft bgs)	Shallow Temp Well Screen Depth (ft bgs)	Shallow Well Exposed Screen Length (ft)	Shallow Temp Well Water Level (ft bgs)	Upper Intermediate Temp Well Screen Depth (ft bgs)	Upper Intermediate Well Exposed Screen Length (ft)	Upper Intermediate Temp Well Water Level (ft bgs)
DPT-012	33	23-33	23-33 (10)	27.67	None	None	None
DPT-013	33	23-33	23-33 (10)	27.24	None	None	None
DPT-014	34	16-26	16-26 (10)	Dry	None	None	None
DPT-015	50	21-31	21-31 (10)	26.02	40-50	47-50 (3)	26.31
DPT-016	42	23-33	23-33 (10)	25.81	32-42	40-42 (2)	26
DPT-017	42	22-32	22-32 (10)	27.47	32-42	38-42 (4)	27.4
DPT-018	40	12-22	12-22 (10)	Dry	30-40	36-40 (4)	27.29
DPT-019	36.5	16-26	16-26 (10)	Dry	26.5-36.5	34.5-36.5 (2)	28.43
DPT-020	44	15-25	15-25 (10)	Dry	34-44	39-44 (5)	26.72
DPT-021	36	14-24	14-24 (10)	Dry	26-36	26-36 (10)	NA
DPT-022	36	08-18	8-18 (10)	Dry	26-36	28-36 (8)	26.67
DPT-023	42	23-33	23-33 (10)	32.23	32-42	36-42 (6)	28.35
DPT-024	44	23-33	23-33 (10)	28.03	34-44	38-44 (6)	27.85
DPT-025	36	26-36	26-36 (10)	27.86	None	None	None
DPT-026	45	26-36	26-36 (10)	28.14	35-45	38-45 (7)	27.8
DPT-027	33	23-33	23-33 (10)	30.45	None	None	NA
DPT-028	45	23-33	23-33 (10)	Dry	35-45	41-45 (4)	27.44
DPT-029	45	24-34	24-34 (10)	27.21	35-45	38-45 (7)	27.3
DPT-030	28.25	18.25-28.25	18.25-28.25 (10)	27.17	None	None	None
DPT-031	33	23-33	23-33 (10)	27.37	None	None	None
DPT-032	49.5	25-35	25-35 (10)	26.6	39.5-49.5	39.5-49.5 (10)	26.43
DPT-033	49	23-33	23-33 (10)	28.68	39-49	41-49 (8)	27.55
DPT-034	33	23-33	23-33 (10)	27.21	None	None	None
DPT-035	49.5	23-33	23-33 (10)	32.69	39.5-49.5	42-49.5	28.2
DPT-036	33	23-33	23-33 (10)	Dry	None	None	None
DPT-037	33	23-33	23-33 (10)	Dry	None	None	None
DPT-038	23	None	None	None	None	None	None

ft bgs = feet below ground surface

Table 3. PSI No. 2 Sample Collection Summary

Parameter/Method	Matrix	Field Samples	No. of Dups	No. of MS	No. of MSD	Equipment Blanks	Trip Blanks	Total No. of Samples
2019								
VOCs SW 8260B	Soil	33	3	2	2	2	2	44
VOCs SW 8260B	Water	13	1	1	1	1	1	18
1,4-Dioxane SW 8270D	Water	5	1	1	1	1	1	10
TCLP VOCs 1311/8260B	Soil	1	0	0	0	0	0	1
TCLP SVOCs 1311/8270C	Soil	1	0	0	0	0	0	1
TCLP Metals/Mercury 1311/6010C/7470A	Soil	1	0	0	0	0	0	1
TCLP Herbicides 1311/8151	Soil	1	0	0	0	0	0	1
TCLP Pesticides 1311/8081A/B	Soil	1	0	0	0	0	0	1
Ignitability (flash point)	Soil	1	0	0	0	0	0	1
Corrosivity	Soil	1	0	0	0	0	0	1
Reactivity	Soil	1	0	0	0	0	0	1
2020								
Field Laboratory: SW8260B (8 selected VOCs)	Soil	110	10	0	0	0	0	120
Field Laboratory: SW8260B (8 selected VOCs)	Water	38	4	0	0	4	0	46
Fixed laboratory: SW8260B (full analyte list	Soil	10	1	1	1	0	0	13
Fixed laboratory: SW8260B (full analyte list	Water	12	1	2	2	1	3	21

Dup = Duplicate
MS = matrix spike
MSD = matrix spike duplicate

Table 4. Monitoring Well Installation Summary

Well ID	Coordinates	Installation Date	Development Date	Zone	Well Completion Details						
					Total Depth (ft)	Screen Interval (ft)	Filter Pack (ft)	Screen Diameter (in)	Borehole Diameter (in)	GW Elevation (ft amsl)	Top of Casing (ft amsl)
47WW48	32.68228, -94.14591	6/23/2020	7/21/2020	Shallow	36.25	22-32	32-20	4	12	177.5	208.02
47WW49	32.68275, -94.1455	6/24/2020	7/13/2020	Shallow	31.7	29-19	29-17	4	12	177.1	207.306
47WW50	32.68274, -94.14552	7/7/2020	7/13/2020	UI	53.3	50-45	50-45	4	12	176.8	207.05
47WW51	32.68314, -94.14501	7/7/2020	7/20/2020	UI	50.4	47-42	47-42	4	12	176.5	206.149
47WW52	32.68349, -94.14500	7/2/2020	7/20/2020	Shallow	36.55	33-23	33-21	4	12	176.1	207.167
47WW53	32.68348, -94.14504	7/8/2020	7/20/2020	UI	50.64	47-42	47-42	4	12	176.3	207.306
47WW54	32.68363, -94.14498	7/16/2020	7/21/2020	Intermediate	51	51-46	51-44	2	8.75	176.1	206.834
47WW55	32.68361, -94.14498	7/15/2020	7/20/2020	Shallow	36	33-23	33-21	4	8.75	175.816	206.796

ft amsl – feet above mean sea level
GW – Groundwater
ft bgs – feet below ground surface
ft – feet
in – inches
UI – Upper Intermediate

Table 5. PSI No. 2 Fixed Laboratory Soil Sample Analytical Results

Chemical Abstracts Service Number	Chemical Name	Sample ID Collection Date Depth Interval (ft bgs)	DPT-001 11/5/2019 27-28	 31-32	 38-39	DPT-002 11/4/2019 26-27	 32-33	 40-41	DPT-003 11/4/2019 29-30	 35-36	 39-40	DPT-004 11/6/2019 28-29	 30-31	 32-33
All results mg/kg		Comparison Level [1]	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
75-35-4	1,1-Dichloroethene	0.7	0.00493	<.002 U	<.0021 U	<.0022 U	<.0021 U	<.0025 U	0.00894	<.0019 U	<.0021 U	0.00264	<.0025 U	<.0016 U
156-59-2	cis-1,2-Dichloroethene	7	0.0738	<.002 U	<.0021 U	0.000561 J	0.00164 J	<.0025 U	0.0315	<0019 U	<.0021 U	0.0322	0.00211 J	<0016 U
156-60-5	trans-1,2-Dichloroethene	10	<.0022 U	<.002 U	<.0021 U	<.0022 U	<.0021 U	<.0025 U	<.0023 U	<.0019 U	<.0021 U	<.0021 U	<.0025 U	<.0016 U
79-01-6	Trichloroethene	0.5	**11.8**	0.00162 J	<.0021 U	0.0165	0.0039	<.0025 U	**15.8**	<.0019 U	0.00148 J	**8.37**	0.0187	0.000894 J
75-01-4	Vinyl Chloride	0.2	0.000985 J	<.002 U	<.0021 U	<.0022 U	<.0021 U	<.0025 U	0.000581 J	<.0019 U	<.0021 U	0.000633 J	<.0025 U	<.0016 U

Chemical Abstracts Service Number	Chemical Name	Sample ID Collection Date Depth Interval (ft bgs)	DPT-005 11/5/2019 24-25	 27-28	 31-32	DPT-006 11/5/2019 20-21	 27-28	 30-31	DPT-007 11/5/2019 27-28	 29-30	 31-32	DPT-008 11/6/2019 26-27	 27-28	 29-30
All results mg/kg		Comparison Level [1]	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
75-35-4	1,1-Dichloroethene	0.7	0.000799 J+	0.000622 J+	<.002 U	<.0025 U	<.0022 U	<.0035 U	0.00297	0.000647 J	0.00046 J	0.00103 J	0.000524 J	0.00150 J
156-59-2	cis-1,2-Dichloroethene	7	0.0342	0.0487	0.00426	0.00199 J	0.0056	<.0035 U	0.0840 J	0.0541	0.0513	0.0826	0.0404	0.0746 J
156-60-5	trans-1,2-Dichloroethene	10	<.0018 U	<.0021 U	<.002 U	<.0025 U	<.0022 U	<.0035 U	<.0021 U	<.0022 U	<.0023 U	<.0021 U	<.0017 U	<.002 U
79-01-6	Trichloroethene	0.5	**1.62**	**0.957**	0.271	0.0684	0.191	0.00124 J	**6.21**	**1.76**	**15.6**	1.34	0.497	**1.42**
75-01-4	Vinyl Chloride	0.2	<.0018 U	<.0021 U	<.002 U	<.0025 U	<.0022 U	<.0035 U	0.00456	0.00129 J	0.00103 J	0.000825 J	<.0017 U	0.00160 J

Table 5. PSI No. 2 Fixed Laboratory Soil Sample Analytical Results (cont'd)

Chemical Abstracts Service Number	Chemical Name	Sample ID Collection Date Depth Interval (ft bgs)	DPT-009 11/5/2019 24-25		DPT-009 11/5/2019 28-29	DPT-009 11/5/2019 31-32	DPT-10 11/6/2019 23-24	DPT-10 11/6/2019 28-29	DPT-10 11/6/2019 32-33	DPT-11 11/6/2019 22-23	DPT-11 11/6/2019 27-28	DPT-11 11/6/2019 31-32	DPT-016 6/2/2020 24-25	
All results mg/kg		Comparison Level [1]	Result		Result	Result	Result	Result	Result	Result	Result	Result	Result	Qual
75-35-4	1,1-Dichloroethene	0.7	0.000613 J		<.0021 U	<.0017 U	<.0018 U	0.00199	0.00293	<.0015 U	0.000601 J	0.00188	<0.000965	U
156-59-2	cis-1,2-Dichloroethene	7	0.0445		<.0021 U	<.0017 U	0.028	0.205	0.285	0.0501	0.105	0.229	<0.000965	U
156-60-5	trans-1,2-Dichloroethene	10	<.0025 U		<.0021 U	<.0017 U	<.0018 U	0.000474 J	0.000756 J	<.0015 U	0.000430 J	0.000736 J	<0.000965	U
79-01-6	Trichloroethene	0.5	0.295		0.00105 J	ND	**1.24**	**3.18**	**4.1**	**1.1**	**3.81**	**3.08**	<0.000965	U
75-01-4	Vinyl Chloride	0.2	<.0025 U		<.0021 U	<.0017 U	<.0018 U	<.0019 U	0.0298 J	5 U	0.00103 J	0.0103	<0.00193	UJ

Chemical Abstracts Service Number	**Chemical Name**	**Sample ID Collection Date Depth Interval (ft bgs)**	**DPT-017 6/3/2020 19-20**		**DPT-020 6/4/2020 14-15**		**DPT-021 6/4/2020 10-11**		**DPT-024 6/8/2020 9-10**		**DPT-024 6/8/2020 21-22**		**DPT-028 6/10/2020 16-17**	
All results mg/kg		**Comparison Level [1]**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
75-35-4	1,1-Dichloroethene	0.7	<0.000782	U	<0.048.5	U	<0.000941	U	<0.000981	UJ	<0.000723	U	<0.114	UJ
156-59-2	cis-1,2-Dichloroethene	7	0.00107	J	<0.048.5	U	0.00284		<0.000981	UJ	<0.000723	U	0.0636	J
156-60-5	trans-1,2-Dichloroethene	10	<0.000782	U	<0.048.5	U	<0.000941	U	<0.000981	UJ	<0.000723	U	<0.114	UJ
79-01-6	Trichloroethene	0.5	0.0156		0.324		0.0276		<0.000981	UJ	<0.000723	U	**5.80**	J
75-01-4	Vinyl Chloride	0.2	<0.00156	UJ	<0.0971	UJ	<0.00188	UJ	<0.00196	UJ	<0.00145	UJ	<0.227	UJ

Table 5. PSI No. 2 Fixed Laboratory Soil Sample Analytical Results (cont'd)

Chemical Abstracts Service Number	Chemical Name	Sample ID Collection Date Depth Interval (ft bgs)	DPT-029 6/11/2020 7-8		DPT-029 6/11/2020 21-22		DPT-030 6/11/2020 10-11	
All results mg/kg		Comparison Level [1]	Result	Qual	Result	Qual	Result	Qual
75-35-4	1,1-Dichloroethene	0.7	<0.00110	U	<0.000986	U	<0.576	U
156-59-2	cis-1,2-Dichloroethene	7	<0.00110	U	<0.000986	U	0.467	J
156-60-5	trans-1,2-Dichloroethene	10	<0.00110	U	<0.000986	U	<0.576	U
79-01-6	Trichloroethene	0.5	0.0107		0.00521		59.6	
75-01-4	Vinyl Chloride	0.2	<0.00220	UJ	<0.00197	UJ	<1.150	U

U = not detected
[1] = GWP-Ind MSCs
Bolded result indicates exceedance of comparison level
mg/kg = milligrams per kilogram
J = estimated value
J+ = estimated value, possibly biased high
Refer to Attachment 5 for sample dilution factors
ft bgs = feet below ground surface

Table 6. PSI No. 2 Field Laboratory Soil Sample Results

CAS Number	Chemical Name	Location ID	DPT-012								DPT-013							
		Collection Date	6/4/2020		6/4/2020		6/4/2020		6/4/2020		6/4/2020		6/4/2020		6/4/2020		6/4/2020	
		Depth Interval (ft bgs)	3-4		7-8		11-12		17-18		1-2		11-12		17-18		20-21	
		PID (PPM)	7.1		1.0		31.4		0.0		2.9		5.1		10.1		16.0	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.026	U	.036	U	.025	U	.032	UJ	.030	U	.023	U	.030	UJ	.029	U
156-59-2	cis-1,2-Dichloroethene	7	.026	U	.036	U	.025	U	.032	UJ	.030	U	.023	U	.030	UJ	.062	
156-60-5	trans-1,2-Dichloroethene	10	.026	U	.036	U	.025	U	.032	UJ	.030	U	.023	U	.030	UJ	.029	U
75-01-4	Vinyl chloride	.2	.026	U	.036	U	.025	U	.032	UJ	.030	U	.023	U	.030	UJ	.029	U
75-09-2	Methylene chloride	.5	.110	U	.140	U	.100	U	.130	UJ	.120	U	.093	U	.120	UJ	.120	U
75-34-3	1,1-Dichloroethane	1,000	.026	U	.036	U	.025	U	.032	UJ	.030	U	.023	U	.030	UJ	.029	U
75-35-4	1,1-Dichloroethene	.7	.026	U	.036	U	.025	U	.032	UJ	.030	U	.023	U	.030	UJ	.029	U
79-01-6	Trichloroethene	.5	.026	U	.036	U	.025	U	.032	UJ	.030	U	.056		.041	J-	**.500**	

CAS Number	Chemical Name	Location ID	DPT-014								DPT-015							
		Collection Date	6/3/2020		6/3/2020		6/3/2020		6/3/2020		6/3/2020		6/3/2020		6/3/2020		6/3/2020	
		Depth Interval (ft bgs)	3-4		10-11		19-20		25-26		3-4		15-16		19-20		23-24	
		PID (PPM)	27.8		9.5		15.2		19.9		5.8		13.7		18.0		0.0	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.037	U	.030	U	.027	U	.030	U	.029	U	.028	U	.028	U	.030	U
156-59-2	cis-1,2-Dichloroethene	7	.037	U	.030	U	.027	U	.041		.029	U	.028	U	.028	U	.030	U
156-60-5	trans-1,2-Dichloroethene	10.	.037	U	.030	U	.027	U	.030	U	.029	U	.028	U	.028	U	.030	U
75-01-4	Vinyl chloride	.2	.037	U	.030	U	.027	U	.030	U	.029	U	.028	U	.028	U	.030	U
75-09-2	Methylene chloride	.5	.150	U	.120	U	.110	U	.120	U	.120	U	.110	U	.110	U	.120	U
75-34-3	1,1-Dichloroethane	1,000	.037	U	.030	U	.027	U	.030	U	.029	U	.028	U	.028	U	.030	U
75-35-4	1,1-Dichloroethene	.7	.037	U	.030	U	.027	U	.030	U	.029	U	.028	U	.028	U	.030	U
79-01-6	Trichloroethene	.5	.037	U	.030	U	.027	U	**.630**		.100		.028	U	.028	U	.210	

Table 6. PSI No. 2 Field Laboratory Soil Sample Results (cont'd)

CAS Number	Chemical Name	Location ID	DPT-016								DPT-017							
		Collection Date	6/2/2020		6/2/2020		6/2/2020		6/2/2020		6/3/2020		6/3/2020		6/3/2020		6/3/2020	
		Depth Interval (ft bgs)	7-8		13-14		21-22		24-25		10-11		17-18		19-20		23-24	
		PID (PPM)	0.0		0.0		0.0		0.0		8.3		21.8		15.9		3.5	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.026	U	.028	U	.026	U	.027	U	.028	U	.027	U	.028	U	.027	U
156-59-2	cis-1,2-Dichloroethene	7	.026	U	.028	U	.026	U	.027	U	.028	U	.027	U	.028	U	.032	
156-60-5	trans-1,2-Dichloroethene	10.	.026	U	.028	U	.026	U	.027	U	.028	U	.027	U	.028	U	.027	U
75-01-4	Vinyl chloride	.2	.026	U	.028	U	.026	U	.027	U	.028	U	.027	U	.028	U	.027	U
75-09-2	Methylene chloride	.5	.100	U	.110	U	.110	U	.110	U	.110	U	.110	U	.110	U	.110	U
75-34-3	1,1-Dichloroethane	1,000	.026	U	.028	U	.026	U	.027	U	.028	U	.027	U	.028	U	.027	U
75-35-4	1,1-Dichloroethene	.7	.026	U	.028	U	.026	U	.027	U	.028	U	.027	U	.028	U	.027	U
79-01-6	Trichloroethene	.5	.026	U	.028	U	.026	U	.027	U	.028	U	.027	U	.028	U	.730	

CAS Number	Chemical Name	Location ID	DPT-018								DPT-019							
		Collection Date	6/1/2020		6/1/2020		6/1/2020		6/1/2020		6/1/2020		6/1/2020		6/1/2020		6/1/2020	
		Depth Interval (ft bgs)	7-8		15-16		21-22		32-33		4-5		8-9		14-15		22-23	
		PID (PPM)	0.6		5.7		1.4		42.7		6.7		1.0		0.4		3.0	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.024	UJ	.030	UJ	.031	UJ	.027	UJ	.029	UJ	.024	UJ	.026	UJ	.032	UJ
156-59-2	cis-1,2-Dichloroethene	7	.024	UJ	.030	UJ	.031	UJ	.480	J-	.029	UJ	.024	UJ	.026	UJ	.032	UJ
156-60-5	trans-1,2-Dichloroethene	10.	.024	UJ	.030	UJ	.031	UJ	.027	UJ	.029	UJ	.024	UJ	.026	UJ	.032	UJ
75-01-4	Vinyl chloride	.2	.024	UJ	.030	UJ	.031	UJ	.027	UJ	.029	UJ	.024	UJ	.026	UJ	.032	UJ
75-09-2	Methylene chloride	.5	.096	UJ	.120	UJ	.120	UJ	.110	UJ	.120	UJ	.097	UJ	.100	UJ	.130	UJ
75-34-3	1,1-Dichloroethane	1,000	.024	UJ	.030	UJ	.031	UJ	.027	UJ	.029	UJ	.024	UJ	.026	UJ	.032	UJ
75-35-4	1,1-Dichloroethene	.7	.024	UJ	.030	UJ	.031	UJ	.027	UJ	.029	UJ	.024	UJ	.026	UJ	.032	UJ
79-01-6	Trichloroethene	.5	.210	J-	.470	J-	.058	J-	**15**		.030	J-	.048	J-	.070	J-	.032	UJ

Table 6. PSI No. 2 Field Laboratory Soil Sample Results (cont'd)

CAS Number	Chemical Name	Location ID	DPT-020								DPT-021							
		Collection Date	6/4/2020		6/4/2020		6/4/2020		6/4/2020		6/4/2020		6/4/2020		6/4/2020		6/4/2020	
		Depth Interval (ft bgs)	5-6		11-12		14-15		18-19		6-7		10-11		19-20		23-24	
		PID (PPM)	0.0		4.7		6.0		17.1		0.0		0.0		0.5		5.1	
	SW8260B-VOCs mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.032	UJ	.029	UJ	.028	UJ	.026	UJ	.029	U	.029	U	.030	UJ	.031	U
156-59-2	cis-1,2-Dichloroethene	7	.032	UJ	.029	UJ	.028	UJ	.026	UJ	.029	U	.029	U	.030	UJ	.037	
156-60-5	trans-1,2-Dichloroethene	10	.032	UJ	.029	UJ	.028	UJ	.026	UJ	.029	U	.029	U	.030	UJ	.031	U
75-01-4	Vinyl chloride	.2	.032	UJ	.029	UJ	.028	UJ	.026	UJ	.029	U	.029	U	.030	UJ	.031	U
75-09-2	Methylene chloride	.5	.130	UJ	.120	UJ	.110	UJ	.100	UJ	.110	U	.110	U	.120	UJ	.120	U
75-34-3	1,1-Dichloroethane	1,000	.032	UJ	.029	UJ	.028	UJ	.026	UJ	.029	U	.029	U	.030	UJ	.031	U
75-35-4	1,1-Dichloroethene	.7	.032	UJ	.029	UJ	.028	UJ	.026	UJ	.029	U	.029	U	.030	UJ	.031	U
79-01-6	Trichloroethene	.5	.032	UJ	.029	UJ	.028	UJ	.026	UJ	.029	U	.029	U	.030	UJ	.120	

CAS Number	Chemical Name	Location ID	DPT-022								DPT-023							
		Collection Date	6/5/2020		6/5/2020		6/5/2020		6/5/2020		6/8/2020		6/8/2020		6/8/2020		6/8/2020	
		Depth Interval (ft bgs)	5-6		8-9		14-15		21-21		2-3		4-5		7-8		9-10	
		PID (PPM)	0.0		0.0		4.4		3.2		3.8		0.0		0.0		0.0	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.026	U	.028	U	.029	U	.025	U	.026	U	.027	U	.033	U	.031	U
156-59-2	cis-1,2-Dichloroethene	7	.026	U	.028	U	.029	U	.025	U	.026	U	.027	U	.033	U	.031	U
156-60-5	trans-1,2-Dichloroethene	10	.026	U	.028	U	.029	U	.025	U	.026	U	.027	U	.033	U	.031	U
75-01-4	Vinyl chloride	.2	.026	U	.028	U	.029	U	.025	U	.026	U	.027	U	.033	U	.031	U
75-09-2	Methylene chloride	.5	.100	U	.110	U	.110	U	.099	U	.100	U	.110	U	.130	U	.130	U
75-34-3	1,1-Dichloroethane	1,000	.026	U	.028	U	.029	U	.025	U	.026	U	.027	U	.033	U	.031	U
75-35-4	1,1-Dichloroethene	.7	.026	U	.028	U	.029	U	.025	U	.026	U	.027	U	.033	U	.031	U
79-01-6	Trichloroethene	.5	.026	U	.029		.029	U	.100		.026	U	.027	U	.033	U	.031	U

Table 6. PSI No. 2 Field Laboratory Soil Sample Results (cont'd)

CAS Number	Chemical Name	Location ID	DPT-024								DPT-025							
		Collection Date	6/8/2020		6/8/2020		6/8/2020		6/8/2020		6/9/2020		6/9/2020		6/9/2020		6/9/2020	
		Depth Interval (ft bgs)	9-10		13-14		17-18		21-22		6-7		11-12		17-18		22-23	
		PID (PPM)	0.1		0.0		0.0		0.0		0.0		0.0		21.2		1.8	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.029	U	.028	U	.033	U	.031	U	.026	U	.031	U	.031	U	.026	U
156-59-2	cis-1,2-Dichloroethene	7	.029	U	.028	U	.033	U	.031	U	.026	U	.031	U	.031	U	.026	U
156-60-5	trans-1,2-Dichloroethene	10	.029	U	.028	U	.033	U	.031	U	.026	U	.031	U	.031	U	.026	U
75-01-4	Vinyl chloride	.2	.029	U	.028	U	.033	U	.031	U	.026	U	.031	U	.031	U	.026	U
75-09-2	Methylene chloride	.5	.110	U	.110	U	.130	U	.120	U	.110	U	.120	U	.120	U	.110	U
75-34-3	1,1-Dichloroethane	1,000	.029	U	.028	U	.033	U	.031	U	.026	U	.031	U	.031	U	.026	U
75-35-4	1,1-Dichloroethene	.7	.029	U	.028	U	.033	U	.031	U	.026	U	.031	U	.031	U	.026	U
79-01-6	Trichloroethene	.5	.029	U	.028	U	.033	U	.031	U	.026	U	.031	U	.038		.052	

CAS Number	Chemical Name	Location ID	DPT-026								DPT-027											
		Collection Date	6/7/2020		6/7/2020		6/7/2020		6/7/2020		6/11/2020		6/11/2020		6/11/2020		6/11/2020		6/11/2020		6/11/2020	
		Depth Interval (ft bgs)	4-5		16-17		17-18		26-27		2-3		5-6		8-9		11-12		17-18		22-23	
		PID (PPM)	0.0		2.1		2.4		2.8		0.0		0.0		0.0		0.0					
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.035	U	.027	U	.033	UJ	.030	U	.027	UJ	.030	U	.035	U	.034	U	.030	U	.032	U
156-59-2	cis-1,2-Dichloroethene	7	.035	U	.027	U	.033	UJ	.037		.027	UJ	.030	U	.035	U	.034	U	.030	U	.032	U
156-60-5	trans-1,2-Dichloroethene	10	.035	U	.027	U	.033	UJ	.030	U	.027	UJ	.030	U	.035	U	.034	U	.030	U	.032	U
75-01-4	Vinyl chloride	.2	.035	U	.027	U	.033	UJ	.030	U	.027	UJ	.030	U	.035	U	.034	U	.030	U	.032	U
75-09-2	Methylene chloride	.5	.140	U	.110	U	.130	UJ	.120	U	.110	UJ	.120	U	.140	U	.140	U	.120	U	.130	U
75-34-3	1,1-Dichloroethane	1,000	.035	U	.027	U	.033	UJ	.030	U	.027	UJ	.030	U	.035	U	.034	U	.030	U	.032	U
75-35-4	1,1-Dichloroethene	.7	.035	U	.027	U	.033	UJ	.030	U	.027	UJ	.030	U	.035	U	.034	U	.030	U	.032	U
79-01-6	Trichloroethene	.5	.035	U	.027	U	.033	UJ	.069		.027	UJ	.030	U	.035	U	.034	U	.100		.032	U

Table 6. PSI No. 2 Field Laboratory Soil Sample Results (cont'd)

CAS Number	Chemical Name	Location ID	DPT-028								DPT-029							
		Collection Date	6/10/2020		6/10/2020		6/10/2020		6/10/2020		6/11/2020		6/11/2020		6/11/2020		6/11/2020	
		Depth Interval (ft bgs)	10-11		13-14		16-17		21-22		7-8		13-14		17-18		21-22	
		PID (PPM)	15.0		28.8		16.2		40.2		9.3		1.1		1.1		8.5	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.023	U	.029	U	.032	U	.028	U	.029	U	.028	U	.028	U	.031	U
156-59-2	cis-1,2-Dichloroethene	7	.023	U	.029	U	.032	U	.038		.029	U	.028	U	.028	U	.031	U
156-60-5	trans-1,2-Dichloroethene	10	.023	U	.029	U	.032	U	.028	U	.029	U	.028	U	.028	U	.031	U
75-01-4	Vinyl chloride	.2	.023	U	.029	U	.032	U	.028	U	.029	U	.028	U	.028	U	.031	U
75-09-2	Methylene chloride	.5	.092	U	.120	U	.130	U	.110	U	.110	U	.110	U	.110	U	.130	U
75-34-3	1,1-Dichloroethane	1,000	.023	U	.029	U	.032	U	.028	U	.029	U	.028	U	.028	U	.031	U
75-35-4	1,1-Dichloroethene	.7	.023	U	.029	U	.032	U	.028	U	.029	U	.028	U	.028	U	.031	U
79-01-6	Trichloroethene	.5	.410		.220		**1.300**		**3.300**		.029	U	.0.28	U	.028	U	.031	U

CAS Number	Chemical Name	Location ID	DPT-030								DPT-031							
		Collection Date	6/11/2020		6/11/2020		6/11/2020		6/11/2020		6/12/2020		6/12/2020		6/12/2020		6/12/2020	
		Depth Interval (ft bgs)	10-11		15-16		17-18		19-20		3-4		12-13		16-17		21-22	
		PID (PPM)	256.2		585.4		396.1		310.6		31.1		7.5		14.4		38.4	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.028	U	.32	U	.032	U	.030	U	.028	U	.027	U	.026	U	.029	U
156-59-2	cis-1,2-Dichloroethene	7	.160		.074		.032	U	.030	U	.028	U	.027	U	.026	U	.034	
156-60-5	trans-1,2-Dichloroethene	10	.028	U	.032	U	.032	U	.030	U	.028	U	.027	U	.026	U	.029	U
75-01-4	Vinyl chloride	.2	.028	U	.032	U	.032	U	.030	U	.028	U	.027	U	.026	U	.029	U
75-09-2	Methylene chloride	.5	.110	U	.130	U	.130	U	.120	U	.110	U	.110	U	.100	U	.120	U
75-34-3	1,1-Dichloroethane	1,000	.028	U	.032	U	.032	U	.030	U	.028	U	.027	U	.026	U	.029	U
75-35-4	1,1-Dichloroethene	.7	.028	U	.032	U	.032	U	.030	U	.028	U	.027	U	.026	U	.029	U
79-01-6	Trichloroethene	.5	**16**		**7.9**		.032	U	.030	U	.065		.027	J	**.560**		**2.0**	

Table 6. PSI No. 2 Field Laboratory Soil Sample Results (cont'd)

CAS Number	Chemical Name	Location ID	DPT-032								DPT-033							
		Collection Date	6/13/2020		6/13/2020		6/13/2020		6/13/2020		6/13/2020		6/13/2020		6/13/2020		6/13/2020	
		Depth Interval (ft bgs)	12-13		15-16		19-20		21-22		8-9		12-13		19-20		22-23	
		PID (PPM)	14.8		82.5		10.6		21.2		35.5		6.4		127.2		53.9	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.026	U	.028	U	.026	U	.032	U	.029	U	.025	U	.027	U	.026	U
156-59-2	cis-1,2-Dichloroethene	7	.026	U	.028	U	.026	U	.032	U	.029	U	.025	U	.027	U	.039	
156-60-5	trans-1,2-Dichloroethene	10	.026	U	.028	U	.026	U	.032	U	.029	U	.025	U	.027	U	.026	U
75-01-4	Vinyl chloride	.2	.026	U	.028	U	.026	U	.032	U	.029	U	.025	U	.027	U	.026	U
75-09-2	Methylene chloride	.5	.100	U	.110	U	.100	U	.130	U	.120	U	.100	U	.110	U	.100	U
75-34-3	1,1-Dichloroethane	1,000	.026	U	.028	U	.026	U	.032	U	.029	U	.025	U	.027	U	.026	U
75-35-4	1,1-Dichloroethene	.7	.026	U	.028	U	.026	U	.032	U	.029	U	.025	U	.027	U	.026	U
79-01-6	Trichloroethene	.5	.026	U	.028	U	.026	U	.032	U	.029	U	.025	U	**.520**		**1.7**	

CAS Number	Chemical Name	Location ID	DPT-034								DPT-035							
		Collection Date	6/14/2020		6/14/2020		6/14/2020		6/14/2020		6/14/2020		6/14/2020		6/14/2020		6/14/2020	
		Depth Interval (ft bgs)	8-9		15-16		18-19		22-23		10-11		15-16		18-19		21-22	
		PID (PPM)	2.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.025	U	.034	U	.028	U	.030	U	.028	U	.034	U	.028	U	.033	U
156-59-2	cis-1,2-Dichloroethene	7	.025	U	.034	U	.028	U	.030	U	.028	U	.034	U	.028	U	.033	U
156-60-5	trans-1,2-Dichloroethene	10	.025	U	.034	U	.028	U	.030	U	.028	U	.034	U	.028	U	.033	U
75-01-4	Vinyl chloride	.2	.025	U	.034	U	.028	U	.030	U	.028	U	.034	U	.028	U	.033	U
75-09-2	Methylene chloride	.5	.1	U	.140	U	.110	U	.120	U	.110	U	.140	U	.110	U	.130	U
75-34-3	1,1-Dichloroethane	1,000	.025	U	.034	U	.028	U	.030	U	.028	U	.034	U	.028	U	.033	U
75-35-4	1,1-Dichloroethene	.7	.025	U	.034	U	.028	U	.030	U	.028	U	.034	U	.028	U	.033	U
79-01-6	Trichloroethene	.5	.025	U	.034	U	.028	U	.030	U	.028	U	.034	U	.0.28	U	.033	U

Table 6. PSI No. 2 Field Laboratory Soil Sample Results (cont'd)

CAS Number	Chemical Name	Location ID	DPT-036								DPT-037							
		Collection Date	6/15/2020		6/15/2020		6/15/2020		6/15/2020		6/15/2020		6/15/2020		6/15/2020		6/15/2020	
		Depth Interval (ft bgs)	11-12		15-16		18-19		21-22		11-12		14-15		18-19		21-22	
		PID (PPM)	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.028	U	.029	U	.031	U	./029	U	.026	U	.029	U	.023	U	.025	U
156-59-2	cis-1,2-Dichloroethene	7	.028	U	.029	U	.031	U	.029	U	.026	U	.029	U	.023	U	.025	U
156-60-5	trans-1,2-Dichloroethene	10	.028	U	.029	U	.031	U	.029	U	.026	U	.029	U	.023	U	.025	U
75-01-4	Vinyl chloride	.2	.028	U	.029	U	.031	U	.029	U	.026	U	.029	U	.023	U	.025	U
75-09-2	Methylene chloride	.5	.110	U	.120	U	.120	U	.120	U	.100	U	.120	U	.092	U	.100	U
75-34-3	1,1-Dichloroethane	1,000	.028	U	.029	U	.031	U	.029	U	.026	U	.029	U	.023	U	.025	U
75-35-4	1,1-Dichloroethene	.7	.028	U	.029	U	.031	U	.029	U	.026	U	.029	U	.023	U	.025	U
79-01-6	Trichloroethene	.5	.028	U	.029	U	.031	U	.029	U	.026	U	.029	U	.023	U	.025	U

CAS Number	Chemical Name	Location ID	DPT-038							
		Collection Date	6/15/2020		6/15/2020		6/15/2020		6/15/2020	
		Depth Interval (ft bgs)	11-12		15-16		18-19		22-23	
		PID (PPM)	0.0		0.0		0.0		0.0	
	SW8260B-VOCs (mg/kg-dry)	Comparison Levels (mg/kg)	Result	Qual	Result	Qual	Result	Qual	Result	Qual
127-18-4	Tetrachloroethene	.5	.024	U	.027	U	.027	U	.024	U
156-59-2	cis-1,2-Dichloroethene	7	.024	U	.027	U	.027	U	.024	U
156-60-5	trans-1,2-Dichloroethene	10	.024	U	.027	U	.027	U	.024	U
75-01-4	Vinyl chloride	.2	.024	U	.027	U	.027	U	.024	U
75-09-2	Methylene chloride	.5	.097	U	.110	U	.110	U	.098	U
75-34-3	1,1-Dichloroethane	1,000	.024	U	.027	U	.027	U	.024	U
75-35-4	1,1-Dichloroethene	.7	.024	U	.027	U	.027	U	.024	U
79-01-6	Trichloroethene	.5	.024	U	.027	U	.027	U	.024	U

Bolded result indicates exeedance of comparison level
mg/kg - milligrams per kilogram
U = not detected
J = estimated value
J- = estimated value, biased low
PID = photo ionization detector

Qual = Final Data Qualifier
PPM = parts per million
Comparison Levels are TRRP GWP-Ind MSCs
Refer to Attachment 5 for sample dilution factors
ft bgs = feet below ground surface

Table 7. PSI No. 2 Fixed Laboratory Groundwater Sample Results

Chemical Abstracts Service Number	Chemical Name	Location	DPT-001	DPT-002	DPT-003	DPT-004	DPT-005	DPT-006	DPT-007	DPT-008	DPT-009	DPT-010	DPT-011	47WW09
		Sample ID	DPT-001	DPT-002	DPT-003	DPT-004	DPT-005	DPT-006	DPT-007	DPT-008	DPT-009	DPT-010	DPT-011	47WW09
		Collection Date	11/7/2019	11/6/2019	11/6/2019	11/6/2019	11/7/2019	11/6/2019	11/6/2019	11/7/2019	11/6/2019	11/7/2019	11/7/2019	11/7/2019
		Groundwater Zone	C/UI	C/UI	C/UI	C/UI	C/UI	C/UI	C/UI	C/UI	C/UI	C/UI	C/UI	Shallow/ Intermediate
		Screened Interval/Sample Depth (ft bgs)	40	44	40	38	34	35	36	36	40	36	38	33
SW8260B-VOCs (µg/L)			Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
75-35-4	1,1-Dichloroethene	7	<40 U	<2 U	<100 U	<100 U	<400 U	<20 U	<4000 U	<1000 U	<2 U	<1000 U	<1000 U	NA
156-59-2	cis-1,2-Dichloroethene	70	<20 U	0.99 J	<50 U	24 J	93 J	4.2 J	840 J	820	3	1300	1500	NA
156-60-5	trans-1,2-Dichloroethene	100	<20 U	<1 U	<50 U	<50 U	<200 U	<10 U	<2000 U	<500 U	<1 U	<500 U	<500 U	NA
79-01-6	Trichloroethene	5	**430**	**29 J**	**760**	**820**	**5,400**	**230**	**77,000**	**36,000**	**93**	**18,000**	**22,000**	NA
75-01-4	Vinyl chloride	2	N<12 U	<.6 U	<30 U	<30 U	<120 U	<6 U	<1200 U	<300 U	<.6 U	97 J	<300 U	NA

Chemical Abstracts Service Number	Chemical Name	Location	47WW25 R-35	47WW25 R-38	47WW37	DPT-015		DPT-025		DPT-029		DPT-029		47WW48		47WW49	
		Sample ID	47WW25 R-35	47WW25 R-38	47WW37	DPT-015 (50)		DPT-025 (36)		DPT-029 (34)		DPT-029 (45)		47WW48		47WW49	
		Collection Date	11/8/2019	11/8/2019	11/8/2019	6/4/2020		6/10/2020		6/12/2020		6/12/2020		7/23/2020		7/23/2020	
		Groundwater Zone	C/UI	C/UI	Inter-mediate	Upper Intermediate		Shallow		Shallow		Upper Intermediate		Shallow		Shallow	
		Screened Interval/Sample Depth (ft bgs)	35	38	61	40-50		26-36		24-34		35-45		22-32		19-29	
SW8260B-VOCs (µg/L)			Result	Result	Result	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
75-35-4	1,1-Dichloroethene	7	<4000 U	<4000 U	<20 U	<1.00	U	2.41		<50.0	U	<50.0	U	**25.4**		<100	U
156-59-2	cis-1,2-Dichloroethene	70	2100 J	2600	13	<0.500	U	22.5		**1,140**		**673**		**352**		**505**	
156-60-5	trans-1,2-Dichloroethene	100	<2000 U	<2000 U	<10 U	<0.500	UJ	0.28	J	<25.0	U	<25.0	U	2.23		<50.0	U
79-01-6	Trichloroethene	5	**130,000**	**140,000**	**190**	1.53		**1,510**	J	**21,000**		**10,300**		**54,100**		**10,200**	
75-01-4	Vinyl chloride	2	<1200 U	<1200 U	>6 U	<0.500	U	0.28	J	<25.0	U	<25.0	U	**5.93**		<50.0	U

Table 7. PSI No. 2 Fixed Laboratory Groundwater Sample Results (cont'd)

Chemical Abstracts Service Number	Chemical Name	Location	47WW50		47WW51		47WW52		47WW53		47WW54		47WW55	
		Sample ID	47WW50		47WW51		47WW52		47WW53		47WW54		47WW55	
		Collection Date	7/23/2020		7/23/2020		7/23/2020		7/23/2020		7/23/2020		7/23/2020	
		Groundwater Zone	Upper Intermediate		Upper Intermediate		Shallow		Upper Intermediate		Upper Intermediate		Shallow	
		Screened Interval/Sample Depth (ft bgs)	45-50		42-47		23-33		42-47		46-51		23-33	
SW8260B-VOCs (µg/L)			Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
75-35-4	1,1-Dichloroethene	7	<1.00	U	3.56		1.5	J	4.15		6.87		0.87	J
156-59-2	cis-1,2-Dichloroethene	70	24.7		**271**		5.49		23.8		**107**		3.51	
156-60-5	trans-1,2-Dichloroethene	100	<0.500	U	1.58		0.52	J	4.11		3.8		0.48	J
79-01-6	Trichloroethene	5	**471**		**3,990**		**5,990**		**5,540**		**4,860**		**2,410**	
75-01-4	Vinyl chloride	2	<0.500	U	0.51	J	0.39	J	0.29	J	1.32	U	<0.500	U

Bold Exceeds Comparison Level
µg/L micrograms per liter
ft bgs Feet below ground surface
MCL Safe Drinking Water Act (SDWA) maximum contaminant level
U Not Detected
J Estimated value
PCL TRRP Protective Concentration Level for Residential Groundwater Use, November 2019
MCL Safe Drinking Water Act (SDWA) maximum contaminant level
C/UI Clay/Upper Intermediate
Qual Final Data Qualifier
Comparison levels are SWDA MCLs if established, otherwise the TRRP PCL is used

Refer to Attachment 5 for sample dilution factors

Table 8. PSI No. 2 Field Laboratory Groundwater Sample Results

	Location	47WW13		47WW14		47WW24		47WW25R		47WW37		LHSMW50		DPT-012	
	sample ID	47WW13		47WW14		47WW24		47WW25R		47WW37		LHSMW50		DPT-012 (33)	
	Sample Date	5/28/2020		5/28/2020		5/29/2020		5/28/2020		5/28/2020		5/29/2020		6/9/2020	
	Location description	Shallow Zone		Shallow/Intermediate Zone		Shallow Zone		C/UI		Intermediate Zone		Shallow Zone		Shallow Zone	
	Screen Interval/Exposed Screen (ft bgs)	8-18		39-49		11-21		29.5-39.5		56-66		16.7-26.7		23-33	
Analyte	Units	MCL	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,2-Dichloroethane	ug/L	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	**1,000**	U
Tetrachloroethene	ug/L	5	0.50	U	0.50	U	0.50	U	0.90		0.50	U	0.50	U	**1,000**	U
cis-1,2-Dichloroethene	ug/L	70	**170**		60		0.50	U	**2,500**		12.00		0.50	U	**1,000**	U
trans-1,2-Dichloroethene	ug/L	100	1.30		8.20		0.50	U	7.80		0.50	U	0.50	U	**1,000**	U
Vinyl chloride	ug/L	2	**4.00**		0.80		0.50	U	**25**		0.50	U	0.50	U	**1,000**	U
Methylene chloride	ug/L	5	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	**4,000**	U
1,1-Dichloroethene	ug/L	7	0.81		0.50	U	0.50	U	**14**		0.50	U	0.50	U	**1,000**	U
Trichloroethene	ug/L	5	**120.00**		**37**		0.50	U	**120,000**		**180**		0.60		**21,000**	

	Location	DPT-013		DPT-015		DPT-015		DPT-016		DPT-016		DPT-017		DPT-017	
	sample ID	DPT-013 (33)		DPT-015 (31)		DPT-015 (50)		DPT-016 (33)		DPT-016 (42)		DPT-017 (32)		DPT-017 (42)	
	Sample Date	6/9/2020		6//4/2020		6/4/2020		6/3/2020		6/3/2020		6/4/2020		6/4/2020	
	Location description	Shallow Zone		Shallow Zone		Upper Intermediate Zone		Shallow Zone		Upper Intermediate Zone		Shallow Zone		Upper Intermediate Zone	
	Screen Interval/Exposed Screen (ft bgs)	23-33		21-31		40-50/47-50		23-33		32-42/40-42		22-32/10		32-42/38/42	
Analyte	Units	MCL	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,2-Dichloroethane	ug/L	5	**1,000**	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	ug/L	5	**1,000**	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	ug/L	70	**1,000**	U	5.00		0.50	U	0.50	U	0.50	U	**2,200**		**680**	
trans-1,2-Dichloroethene	ug/L	100	**1,000**	U	0.50	U	0.50	U	0.50	U	0.50	U	5.40		1.80	
Vinyl chloride	ug/L	2	**1,000**	U	0.50	U	0.50	U	0.50	U	0.50	U	**37**		**2.40**	
Methylene chloride	ug/L	5	**4,000**	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U
1,1-Dichloroethene	ug/L	7	**1,000**	U	0.50	U	0.50	U	0.50	U	0.50	U	**20**		**7.80**	
Trichloroethene	ug/L	5	**57,000**		**240**		1.40		0.50	U	0.50	U	**23,000**		**6,300**	

Table 8. 2020 PSI Field Laboratory Groundwater Sample Results (cont'd)

		Location	DPT-018		DPT-019		DPT-020		DPT-021		DPT-022		DPT-023		DPT-023	
		sample ID	DPT-018 (40)		DPT-019 (36)		DPT-020 (44)		DPT-021 (36)		DPT-022 (36)		DPT-023 (33)		DPT-023 (42)	
		Sample Date	6/2/2020		6/2/2020		6/5/2020		6/5/2020		6/6/2020		6/9/2020		6/8/2020	
		Location description	Upper Intermediate Zone		Upper Intermediate Zone		Upper Intermediate Zone		Upper Intermediate Zone		Upper Intermediate Zone		Shallow Zone		Upper Intermediate Zone	
		Screen Interval/Exposed Screen (ft bgs)	30-40/36-40		26.5-36.5/34.5-36.5		34-44/39/44		26-36/26/36		26-36/28/36		23-33		34-44/36-42	
Analyte	Units	MCL	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,2-Dichloroethane	ug/L	5	**100**	U	0.50	U	**100**	U	**100**	U	**100**	U	**100**	U	**100**	U
Tetrachloroethene	ug/L	5	**100**	U	0.50	U	**100**	U	**100**	U	**100**	U	**100**	U	**100**	U
cis-1,2-Dichloroethene	ug/L	70	**1,400**		3.10		**570**		**410**		**1,500**		**100**	U	**100**	U
trans-1,2-Dichloroethene	ug/L	100	**100**	U	0.50	U	**100**	U	**100**	U	**100**	U	**100**	U	**100**	U
Vinyl chloride	ug/L	2	**100**	U	0.50	U	**100**	U	**100**	U	**100**	U	**100**	U	**100**	U
Methylene chloride	ug/L	5	**400**	U	2.00	U	**400**	U	**400**	U	**400**	U	**400**	U	**400**	U
1,1-Dichloroethene	ug/L	7	**100**	U	0.50	U	**100**	U	**100**	U	**100**	U	**100**	U	**100**	U
Trichloroethene	ug/L	5	**41,000**		**170**		**7,400**		**5,200**		**66,000**		**2,500**		**4,400**	

		Location	DPT-0-24		DPT-024		DPT-025		DPT-026		DPT-026		DPT-027		DPT-028	
		sample ID	DPT-024 (33)		DPT-024 (44)		DPT-025 (36)		DPT-026 (36)		DPT-026 (45)		DPT-027 (33)		DPT-028 (48)	
		Sample Date	6/9/2020		6/8/2020		6/10/2020		6/8/2020		6/8/2020		6/12/2020		6/10/2020	
		Location description	Shallow Zone		Upper Intermediate Zone		Shallow Zone		Shallow Zone		Upper Intermediate Zone		Shallow Zone		Upper Intermediate Zone	
		Screen Interval/ Exposed Screen (ft bgs)	23-33		34-44/38-44		26-36		26-36		35-45/38-45		23-33		35-45/41-45	
Analyte	Units	MCL	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,2-Dichloroethane	ug/L	5	0.50	U	0.50	U	5.00	U	**1,000**	U	**100**	U	**100**	U	**250**	U
Tetrachloroethene	ug/L	5	0.50	U	0.50	U	5.00	U	**1,000**	U	**100**	U	**100**	U	**250**	U
cis-1,2-Dichloroethene	ug/L	70	0.50	U	0.50	U	8.10	J	**1,400**		**340**		**100**	U	**520**	
trans-1,2-Dichloroethene	ug/L	100	0.50	U	0.50	U	5.00	U	**1,000**	U	**100**	U	**100**	U	**250**	U
Vinyl chloride	ug/L	2	0.50	U	0.50	U	5.00	U	**1,000**	U	**100**	U	**100**	U	**250**	U
Methylene chloride	ug/L	5	2.00	U	2.00	U	**20**	U	**4,000**	U	**400**	U	**400**	U	**1,000**	U
1,1-Dichloroethene	ug/L	7	0.50	U	0.50	U	5.00	U	**1,000**	U	**100**	U	**100**	U	**250**	U
Trichloroethene	ug/L	5	0.50	U	0.50	U	**660**	J	**14,000**		**40,000**		**3,500**		**11,000**	

Table 8. 2020 PSI Field Laboratory Groundwater Sample Results (cont'd)

	Location	DPT-029		DPT-029		DPT-031		DPT-032		DPT-032		DPT-033		DPT-033	
	sample ID	DPT-029 (34)		DPT-029 (45)		DPT-031 (33)		DPT-032 (35)		DPT-032 (49.5)		DPT-033 (33)		DPT-033 (49)	
	Sample Date	6/12/2020		6/12/2020		6/12/2020		6/13/2020		6/13/2020		6/14/2020		6/14/2020	
	Location description	Shallow Zone		Upper Intermediate Zone		Shallow Zone		Shallow Zone		Upper Intermediate Zone		Shallow Zone		Upper Intermediate Zone	
	Screen Interval/Exposed Screen (ft bgs)	24-34		35-45/38-45		23-33		25-35		39.5-49.5/39.5-49.5		23-33		39-49/41-49	
Analyte	Units	MCL	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,2-Dichloroethane	ug/L	5	**250**	U	**10**	U	**100**	U	0.50	U	2.50	U	**500**	U	**500**	U
Tetrachloroethene	ug/L	5	**250**	U	**10**	U	**100**	U	0.50	U	2.50	U	**500**	U	**500**	U
cis-1,2-Dichloroethene	ug/L	70	**1,200**		**700**		**310**		0.50	U	7.40		**500**	U	**500**	U
trans-1,2-Dichloroethene	ug/L	100	**250**	U	10	U	**100**	U	0.50	U	2.50	U	**500**	U	**500**	U
Vinyl chloride	ug/L	2	**250**	U	**10**	U	**100**	U	0.50	U	**2.50**	U	**500**	U	**500**	U
Methylene chloride	ug/L	5	**1,000**	U	**40**	U	**400**	U	2.00	U	**10.00**	U	**2,000**	U	**2,000**	U
1,1-Dichloroethene	ug/L	7	**250**	U	**10**	U	**100**	U	0.50	U	2.50	U	**500**	U	**500**	U
Trichloroethene	ug/L	5	**22,000**		**11,000**		**41,000**		**6.60**		**61.00**		**5,700**		**3,300**	

	Location	DPT-034	DPT-035	DPT-035
	sample ID	DPT-034 (33)	DPT-035 (33)	DPT-035 (49.5)
	Sample Date	6/14/2020	6/16/2020	6/15/2020
	Location description	Shallow Zone	Shallow Zone	Upper Intermediate Zone
	Screen Interval/Exposed Screen (ft bgs)	23-33	23-33	39-49/42-49.5
Analyte	Units	MCL	Result	Qual	Result	Qual	Result	Qual
1,2-Dichloroethane	ug/L	5	0.50	U	2.50	U	0.50	U
Tetrachloroethene	ug/L	5	0.50	U	2.50	U	0.50	U
cis-1,2-Dichloroethene	ug/L	70	0.50	U	2.50	U	**78**	
trans-1,2-Dichloroethene	ug/L	100	0.50	U	2.50	U	0.94	
Vinyl chloride	ug/L	2	0.50	U	**2.50**	U	0.50	U
Methylene chloride	ug/L	5	2.00	U	**10.00**	U	2.00	U
1,1-Dichloroethene	ug/L	7	0.50	U	2.50	U	2.20	
Trichloroethene	ug/L	5	0.50	U	**59.00**		**2,400**	

Bold – exceeds comparison level
ft bgs – feet below ground surface
µg/L – micrograms per liter
MCL – Safe Drinking Water Act (SWDA) Maximum Contaminant Level
U – not detected
Qual – Final Data Qualifier
C/UI – Clay/Upper Intermediate Zone
Refer to Attachment 5 for sample dilution factors

Table 9. PSI No. 2 Fixed-Field Laboratory Data Comparison – Soil

Chemical Name	Location ID	DPT-016					DPT-017					DPT-020				
	Collection Date	6/2/2020					6/3/2020					6/4/2020				
	Depth Interval (ft bgs)	24-25					19-20					14-15				
All results mg/kg	Comparison Level (mg/kg)	Fixed Lab		Field Lab		RPD	Fixed Lab		Field Lab		RPD	Fixed Lab		Field Lab		RPD
		Result	Qual	Result	Qual	(%)	Result	Qual	Result	Qual	(%)	Result	Qual	Result	Qual	(%)
Tetrachloroethene	.5	<0.00965	U	.027	U	NC	<0.000782	U	.028	U	NC	<.0485	U	.028	UJ	NC
cis-1,2-Dichloroethene	7	<0.00965	U	.027	U	NC	.00107	J	.028	U	NC	<.0485	U	.028	UJ	NC
trans-1,2-Dichloroethene	10	<0.00965	U	.027	U	NC	<0.000782	U	.028	U	NC	<.0485	U	.028	UJ	NC
Vinyl chloride	.2	<.0193	UJ	.027	U	NC	<.00156	UJ	.028	U	NC	<.0971	UJ	.028	UJ	NC
Methylene chloride	.5	.00275	J	.110	U	NC	<.00156	U	.110	U	NC	<.0971	U	.110	UJ	NC
1,1-Dichloroethane	1,000	<.00193	U	.027	U	NC	<.00156	U	.028	U	NC	<.0971	U	.028	UJ	NC
1,1-Dichloroethene	.7	<0.000965	U	.027	U	NC	<0.000782	U	.028	U	NC	<.0485	U	.028	UJ	NC
Trichloroethene	.5	<0.000965	U	.027	U	NC	.0156		.028	U	NC	.324		.028	UJ	NC

Chemical Name	Location ID	DPT-021					DPT-024									
	Collection Date	6/4/2020					6/8/2020					6/8/2020				
	Depth Interval (ft bgs)	10-11					9-10					21-22				
All results mg/kg	Comparison Level (mg/kg)	Fixed Lab		Field Lab		RPD	Fixed Lab		Field Lab		RPD	Fixed Lab		Field Lab		RPD
		Result	Qual	Result	Qual	(%)	Result	Qual	Result	Qual	(%)	Result	Qual	Result	Qual	(%)
Tetrachloroethene	.5	<0.000941	U	.029	U	NC	<0.000981	UJ	.029	U	NC	<0.000723	U	.031	U	NC
cis-1,2-Dichloroethene	7	.00284		.029	U	NC	<0.000981	UJ	.029	U	NC	<0.000723	U	031	U	NC
trans-1,2-Dichloroethene	10	<0.000941	U	.029	U	NC	<0.000981	UJ	.029	U	NC	<0.000723	U	.031	U	NC
Vinyl chloride	.2	<.00188	UJ	.029	U	NC	<.00196	UJ	.029	U	NC	<.00145	UJ	.031	U	NC
Methylene chloride	.5	<.00188	U	.110	U	NC	<.00196	UJ	.110	U	NC	<.00145	U	.120	U	NC
1,1-Dichloroethane	1,000	<.00188	U	.029	U	NC	<00196	UJ	.029	U	NC	<.00145	U	.031	U	NC
1,1-Dichloroethene	.7	<0.000941	U	.029	U	NC	<0.000981	UJ	.029	U	NC	<0.000723	U	.031	U	NC
Trichloroethene	.5	.0276		.029	U	NC	<0.000981	UJ	.029	U	NC	<0.000723	U	.031	U	NC

Table 9. PSI No. 2 Fixed-Field Laboratory Data Comparison – Soil (cont'd)

Chemical Name	Location ID	DPT-028					DPT-029								
	Collection Date	6/10/2020					6/11/2020					6/11/2020			
	Depth Interval (ft bgs)	16-17					7-8					21-22			
All results mg/kg	Comparison Level (mg/kg)	Fixed Lab		Field Lab		RPD	Fixed Lab		Field Lab		RPD	Fixed Lab		Field Lab		RPD
		Result	Qual	Result	Qual	(%)	Result	Qual	Result	Qual	(%)	Result	Qual	Result	Qual	(%)
Tetrachloroethene	.5	<114.	UJ	.032	U	NC	<.00110	U	.029	U	NC	<0.000986	U	31	U	NC
cis-1,2-Dichloroethene	7	.0636	J	.032	U	NC	<.00110	U	.029	U	NC	<0.000986	U	31	U	NC
trans-1,2-Dichloroethene	10	<.114	UJ	.032	U	NC	<.00110	U	.029	U	NC	<0.000986	U	31	U	NC
Vinyl chloride	.2	<.227	UJ	.032	U	NC	<.00220	UJ	.029	U	NC	<.00197	UJ	31	U	NC
Methylene chloride	.5	<.227	UJ	.130	U	NC	<.00220	U	.110	U	NC	<.00197	U	130	U	NC
1,1-Dichloroethane	1,000	<.227	UJ	.032	U	NC	<.00220	U	.029	U	NC	<.00197	U	31	U	NC
1,1-Dichloroethene	.7	<.114	UJ	.032	U	NC	<.00110	U	.029	U	NC	<0.000986	U	31	U	NC
Trichloroethene	.5	5.880	J	1.300		128	.0107		.029	U	NC	.00521		31	U	NC

Chemical Name	Location ID	DPT-030				
	Collection Date	6/11/2020				
	Depth Interval (ft bgs)	10-11				
All results mg/kg	Comparison Level (mg/kg)	Fixed Lab		Field Lab		RPD
		Result	Qual	Result	Qual	(%)
Tetrachloroethene	.5	<,576	U	.028	U	NC
cis-1,2-Dichloroethene	7	,467	J	.160		98
trans-1,2-Dichloroethene	10	<,576	U	.028	U	NC
Vinyl chloride	.2	<1.150	U	.028	U	NC
Methylene chloride	.5	<1.150	U	.110	U	NC
1,1-Dichloroethane	1,000	<1.150	U	.028	U	NC
1,1-Dichloroethene	.7	<.576	U	.028	U	NC
Trichloroethene	.5	59		16		115

Comparison Levels are SWDA Maximum Contaminant Levels

Bold	Exceeds comparison level
mg/kg	milligrams per kilogram
J	Estimated value
NC	Not Calculated
U	Not Detected
ft bgs	Feet below ground surface
RPD	Relative percent difference

Refer to Attachment 5 for sample dilution factors

Table 10. PSI No. 2 Fixed-Field Laboratory Data Comparison - Groundwater

Chemical Name	Location	DPT-015					DPT-025				
	sample ID	DPT-015 (50)					DPT-025 (36)				
	Sample Date	6/4/2020					6/10/2020				
	Location description	Upper Intermediate					Shallow				
	Screen Interval/Exposed Screen (ft bgs)	40-50/47-50					26-36				
	PCL/MCL	Fixed Lab		Field Lab		RPD	Fixed Lab		Field Lab		RPD
Analyte	µg/L	Result	Qual	Result	Qual	(%)	Result	Qual	Result	Qual	(%)
1,2-Dichloroethane	5	<0.500	U	0.50	U	NC	<0.500	U	5.00	U	NC
Tetrachloroethene	5	<0.500	U	0.50	U	NC	<0.500	U	5.00	U	NC
cis-1,2-Dichloroethene	70	<0.500	U	0.50	U	NC	22.5		8.10	J	94
trans-1,2-Dichloroethene	100	<0.500	UJ	0.50	U	NC	0.28	J	5.00	U	NC
Vinyl chloride	2	<0.500	U	0.50	U	NC	0.28	J	5.00	U	NC
Methylene chloride	5	<0.500	U	2.00	U	NC	<0.500	U	20	U	NC
1,1-Dichloroethene	7	<1.00	U	0.50	U	NC	2.41		5.00	U	NC
Trichloroethene	5	1.53		1.40		9	**1,510**	J	**660**	J	70

Chemical Name	Location	DPT-029					DPT-029				
	sample ID	DPT-029 (34)					DPT-029 (45)				
	Sample Date	6/12/2020					6/12/2020				
	Location description	Shallow					Upper Intermediate				
	Screen Interval (ft bgs)	24-34					35-45/38-45				
	PCL/MCL	Fixed Lab		Field Lab		RPD	Fixed Lab		Field Lab		RPD
Analyte	µg/L	Result	Qual	Result	Qual	(%)	Result	Qual	Result	Qual	(%)
1,2-Dichloroethane	5	<25.0	U	250	U	NC	<25.0	U	10	U	NC
Tetrachloroethene	5	<25.0	U	250	U	NC	<25.0	U	10	U	NC
cis-1,2-Dichloroethene	70	**1,140**		1,200		5	**673**		700		4
trans-1,2-Dichloroethene	100	<25.0	U	250	U	NC	<25.0	U	10	U	NC
Vinyl chloride	2	<25.0	U	250	U	NC	<25.0	U	10	U	NC
Methylene chloride	5	<25.0	U	1,000	U	NC	<25.0	U	40	U	NC
1,1-Dichloroethene	7	<50.0	U	250	U	NC	<50.0	U	10	U	NC
Trichloroethene	5	**21,000**		22,000		5	**10,300**		11,000		7

All concentrations µg/L

Bold	Exceeds comparison level	NC	Not Calculated
µg/L	micrograms per liter	PCL	TRRP Protective Concentration Level for Residential Groundwater, November, 2019
ft bgs	Feet below ground surface	U	Not Detected
MCL	SWDA Maximum Contaminant Level	Refer to Attachment 5 for sample dilution factors	

Attachment 3

Soil Boring and Monitoring Well Development Logs, Well Abandonment and Registration Forms

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1. HOLE NUMBER DPT-001

DRILLING LOG For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.	2. DIVISION	3. INSTALLATION LHAAP	SHEET 1 OF 3 SHEETS
4. PROJECT Bldg 46A		13. SIZE AND TYPE OF BIT 2.25" core barrel	
5. LOCATION (Coordinates or Station) —		14. DATUM FOR ELEVATION SHOWN (TBM or MSL) —	
		15. MANUFACTURERS DESIGNATION OF DRILL Geoprobe 7822 DT	
6. DRILLING AGENCY WHE		16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN	a. DISTURBED — / b. UNDISTURBED —
7. HOLE NUMBER (as shown on drawing title and title number) DPT-001		17. TOTAL NUMBER CORE BOXES —	
8. NAME OF DRILLER Kerri Powell		18. ELEVATION GROUND WATER	
9. DIRECTION OF HOLE ☒ a. VERTICAL ☐ b. INCLINED c. DEG FROM VERT.		19. DATE HOLE (YYYYMMDD) a. STARTED 11/05/2019 b. COMPLETED 11/05/2019	
10. THICKNESS OF OVERBURDEN —		20. ELEVATION TOP OF HOLE (feet) —	
11. DEPTH DRILLED INTO ROCK —		21. TOTAL CORE RECOVERY FOR BORING %	
12. TOTAL DEPTH OF HOLE 40'		22. SIGNATURE OF INSPECTOR	

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	Clay with intermixed sand and silt, plastic, v. moist, various red/gray, sand from 9-12	%	0.0	
		2		3/4 75 %		
		3		%		
		4				
		5		3/4 %		
		6		75 %		
		7		%		
		8				
		9		%		
		10				

ENG FORM 1836, MAR 1971 PREVIOUS EDITIONS ARE OBSOLETE. (Translucent) PROJECT HOLE NUMBER VERSION

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE	2. HOLE NUMBER	SHEET 2 OF 3 SHEETS
—	DPT-601	

3. PROJECT	4. INSTALLATION
LHAAP Bldg 416A	LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		11		3/4 75 %	0.0	
		12		%		
		13		2/2 100 %		
		14				
		15		2/2 100 %		
		16	Sand, loose, tan to white, brn, fine grained	%	0.3	
		17		2/2 100 %		
		18			0.6	
		19		2/2 100 %	1.1	
		20	Clay, red/gray, stiff, plastic			
		21		2/2 100 %	1.5	
		22		%	2.2	
		23		2/2 100 %	7.6	
		24				
		25		2/2 100 %	5.0	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE	2. HOLE NUMBER	SHEET 3 OF 3 SHEETS
—	DPT-001	

3. PROJECT	4. INSTALLATION
LHAAD Bldg 46A	LHAAD

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		26	Sand with clay, wet, tan to red	%	3.6	
		27		2/2 100 %	0.8	Sample DPT-001 (27-28) at 0810
		28			5.6	
		29		2/2 100 %	1.4 0.7	
		30	Clay, very silty, dark brown, stiff, dry, some sand lenses	%	1.4	
		31		2/2 100 %	0.0 0.0	Sample DPT-001 (31-32) at 0820
		32			0.0	
		33		2/2 100 %	0.0 0.0	
		34	Sand w clay, dry, dark gray to brown, stiff, very loose at 38'	%	0.0	
		35		2/2 100 %	0.0 0.0	
		36			0.0	
		37		2/2 100 %	0.0 0.0	
		38			0.0	Sample DPT-001 (38-39) at 0830
		39		2/2 100 %	0.0 0.0	
		40			0.0	

1. HOLE NUMBER DPT-002

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION —

3. INSTALLATION: LHAAD

SHEET 1 OF 4 SHEETS

4. PROJECT: Bldg 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-002

8. NAME OF DRILLER: Kori Powell

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: 0.5' concrete

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 44'

13. SIZE AND TYPE OF BIT: 2.25" core barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER:

19. DATE HOLE (YYYYMMDD): a. STARTED 11/04/2019; b. COMPLETED 11/04/2019

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %:

22. SIGNATURE OF INSPECTOR:

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	Silt, gray/brown, dry, gravel, loose 0 PID	2/4 %	0.0	
		2	Clay, silty, moist, gray-red-brown, 0 PID	50 %	0.0	
		3				
		4		%	0.0	
		5		3/4 %	0.0	
		6	Clay, very stiff, gray brown w/ red mottling. 0 PID v. plastic	75 %	0.0	
		7				
		8		%	0.0	
		9		%		
		10				

ENG FORM 1836, MAR 1971 PREVIOUS EDITIONS ARE OBSOLETE. (Translucent) PROJECT HOLE NUMBER VERSION

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE	2. HOLE NUMBER	SHEET 2 OF 4 SHEETS
—	DPT-002	

3. PROJECT LHAAP Bldg 46A

4. INSTALLATION LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	11			4/4 % 100	0.0	
	12			%		
	13		Clay/silt, stiff, gray/brown/red, dry, slight plastic	4/4 % 100	0.0	
	14		0 PID			
	15		Sand lense at 14'	%	0.0	
	16			2/2 % 100 %	0.0	
	17					
	18		Sand, loose, fine grain, tan, slight moist		0.0	
	19		0 PID	2/2 % 100	0.0	
	20					
	21		Clay/silt stiff, plastic, brown/red, slight moist	2/2 % 100 %	0.0	
	22					
	23		1.0 PID	2/2 % 100	1.0	
	24					
	25			2/2 % 100	0.0	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE	2. HOLE NUMBER	SHEET 3 OF 4 SHEETS
—	DPT-002	

3. PROJECT	4. INSTALLATION
LHAAP Bldg 4LA	LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		26	Sand, loose, moist, brown/gray/red	%		Sample DPT-002 (26-27) at 1400
			18.0 PID	2/2 100 %	18.0	
		27	Clay, stiff, plastic, moist, brown, silty			
		28			12.0	
		29		2/2 100 %	10.7	
		30				
		31		2/2 100 %	0.4 0.1	
		32			0.0	
		33		2/2 100 %	0.0	Sample DPT-002 (32-33) at 1410
		34			0.0	
		35		2/2 100 %	0.0	
		36			0.0	
		37	Silt, clayey, stiff, dry, black, organic matter	2/2 100 %	0.0 0.0	
		38			0.0	
		39		2/2 100 %	0.0	
		40			0.0	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-002

SHEET 4 OF 4 SHEETS

3. PROJECT: LHAAP Bldg 46A

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		41	Silt, sandy, loose, brown, slight moist going to wet at 43'	2/2 % 100	0.0	Sample DPT-002 (40-41) at 1420
		42			0.0	
				%		
		43		2/2 100 %	0.0	
		44			0.0	
				%		Set screen
				%		
				%		
				%		
				%		
				%		
				%		
				%		

1. HOLE NUMBER DPT-003

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION —

3. INSTALLATION LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT Bldg 46A

5. LOCATION (Coordinates or Station) —

6. DRILLING AGENCY WHE

7. HOLE NUMBER (as shown on drawing title and title number) DPT-003

8. NAME OF DRILLER Kurt Powell

9. DIRECTION OF HOLE
[X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN 0.5' concrete

11. DEPTH DRILLED INTO ROCK —

12. TOTAL DEPTH OF HOLE 42.5'

13. SIZE AND TYPE OF BIT 2.25" core barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL) —

15. MANUFACTURERS DESIGNATION OF DRILL Geoprobe 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN — a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES —

18. ELEVATION GROUND WATER

19. DATE HOLE (YYYYMMDD) a. STARTED 11/04/2019 b. COMPLETED 11/04/2019

20. ELEVATION TOP OF HOLE (feet) —

21. TOTAL CORE RECOVERY FOR BORING % —

22. SIGNATURE OF INSPECTOR

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	Clay, stiff, moist, plastic, gray with red mottling, silty at base		0.0	
		2		2/4 50 %	0.0	
		3			0.0	
		4		%	0.0	
		5		4/4 100 %	0.0	
		6			0.0	
		7			0.0	
		8		%	0.0	
		9		4/4 100 %	0.0	
		10			0.0	

ENG FORM 1836, MAR 1971 PREVIOUS EDITIONS ARE OBSOLETE. (Translucent) PR [illegible] HOLE NUMBER

VERSI [illegible]

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-003

SHEET 2 OF 4 SHEETS

3. PROJECT: Bldg 4LA

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		11		%	0.0	
		12		%	0.0	
		13		2/2 100 %	0.0	
		14			0.0	
		15		2/2 100 %	0.0	
		16		%	0.0	
		17	Sand mixed with silt and clay, wet, loose, tan to red	2/2 100 %	0.0	
		18				
		19		2/2 100 %	0.0	
		20				
		21		2/2 100 %	0.0	
		22				
		23		2/2 100 %	0.0	
		24				
		25	Clay w/ interbedded silt, moist, plastic, stiff, tan to red	2/2 100 %	0.4	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-003

SHEET 3 OF 4 SHEETS

3. PROJECT: Bldg 4LA

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		26		%	1.6	
			Sand, loose, wet, tan to red	2/2		
		27		100 %	2.4	
					3.5	
		28	Silt with sand, stiff, moist, dark brown	%	5.5	
		29		2/2	6.3	Sample DPT-003(29-30) at 1540
		30		100 %	9.2	
		31		2/2	2.6	
				100 %		
		32			1.4	
		33	Clay, stiff, silty, black, plastic, moist to dry	2/2 %	0.0	
				100		
		34		%	0.0	
				2/2		
		35		100 %	0.0	Sample DPT-003(35-36) at 1550
		36			0.0	
				2/2	0.0	
		37		100 %		
					0.0	
		38	Sand with silt, black, dry to moist	%	0.0	
				2/2		
		39		100	0.0	Sample DPT-003(39-40) at 1600
				%		
		40			0.0	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-003

SHEET 4 OF 4 SHEETS

3. PROJECT: Bldg 46A

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		41		25/25 %		
		42		100 %		
		43		%		
				%		
				%		
				%		
				%		
				%		
				%		
				%		
				%		
				%		
				%		

1. HOLE NUMBER: DPT-004

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: LHAAP BIR 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-004

8. NAME OF DRILLER: Kerri Powell

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 38'

13. SIZE AND TYPE OF BIT: 2.25" core barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER:

19. DATE HOLE (YYYYMMDD): a. STARTED 11/06/2019; b. COMPLETED 11/06/2019

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %:

22. SIGNATURE OF INSPECTOR:

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1 2 3 4 5 6 7 8 9 10	Clay, slt ff. plastic, moist, red to brown to tan, silty	2/4 50 % 3/4 75 % 4/4 100 %	0.0	

ENG FORM 1836, MAR 1971 PREVIOUS EDITIONS ARE OBSOLETE. (Translucent) PR [illegible] HOLE NUMBER

VERSI

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE	2. HOLE NUMBER	SHEET 2 OF 3 SHEETS
—	DPT-004	

3. PROJECT Bldg 46A

4. INSTALLATION LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		11		%	0.0	
		12		%		
		13		4/4		
		14	Sand, loose, dry, tan with red staining	100 %	0.3	
		15		%	0.0	
		16			0.0	
		17		2/2 % 100	0.0	
		18		%	0.0	
		19		2/2 100 %	0.3	
		20			0.5	
		21	Clay, very silty, plastic, st. ff, moist,	2/2 % 100	0.0	
		22		%	0.0	
		23	Sand, clayey, loose, tan	2/2 100 %	5.0	
		24			12.8	
		25		2/2 % 100	20.7	
					55.0	
					39.1	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-004

SHEET 3 OF 3 SHEETS

3. PROJECT: Bldg 46A

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	26			%	49.6	
	27			2/2 100 %	49.1 65.7	
	28				65.8	
	29		Clay, dark brown, silty, stiff, dry	2/2 100 %	42.6 38.4	Sample DPT-004 (28-29) at 0900
	30				22.9	
	31			2/2 100 %	B.4 0.0	Sample DPT-004 (30-31) at 0910
	32				0.0	
	33		Sand/clay, silt, dark gray, dry, to/rd at 37'	2/2 100 %	0.0 0.0	Sample DPT-004 (32-33) at 0920
	34				0.0	
	35			2/2 100 %	0.0 0.0	
	36				0.0	
	37			2/2 100 %	0.0 0.0	
	38				0.0	
	39			%		
	40			%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER: DPT-005

DRILLING LOG
For use of this form see EM 1110-1-1804 the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: Bldg UGA

13. SIZE AND TYPE OF BIT: 2.25" Core bead

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

5. LOCATION (Coordinates or Station): —

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822 DT

6. DRILLING AGENCY: WHE

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

7. HOLE NUMBER (as shown on drawing title and title number): DPT-005

17. TOTAL NUMBER CORE BOXES: —

8. NAME OF DRILLER: Kerr, Powell

18. ELEVATION GROUND WATER

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

19. DATE HOLE (YYYYMMDD): a. STARTED 11/05/2019; b. COMPLETED 11/05/2019

20. ELEVATION TOP OF HOLE (feet): —

10. THICKNESS OF OVERBURDEN: —

21. TOTAL CORE RECOVERY FOR BORING %

11. DEPTH DRILLED INTO ROCK: —

22. SIGNATURE OF INSPECTOR

12. TOTAL DEPTH OF HOLE: 34'

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc. if significant)
		1	Clay, sandy at top, brown to red to gray, stiff, plastic	2/4 50 %	0.0	
		2				
		3				
		4				
		5		4/4 100 %		
		6				
		7				
		8				
		9		4/4 100 %		

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DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —
2. HOLE NUMBER: DPT-005
SHEET 2 OF 3 SHEETS

3. PROJECT: LHAAP Blg 46A
4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		11		%	0.0	
		12		%		
		13		4/4 %		
		14	Sand, gray, loose, dry, red staining	100		
		15		%		
		16		%	1.4	
		17		4/4		
		18		%	5.8	
		19		100 %	1.9	
		20		%		
		21		2/2 % 100	0.5 0.4	
		22		%	1.1	
		23		2/2 100 %	4.9 4.3	
		24	Clay w/ sand, plastic, dark gray	%	10.3 6.4	Sample DPT-005 (24-25) at 1250
		25		2/2 % 100	2.1	

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6. PROJECT
7. HOLE NUMBER
VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-005

SHEET 3 OF 3 SHEETS

3. PROJECT: LHAAP Bldg 46A

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		26		%	2.2	
					0.6	
		27		2/2 100 %	0.0	Sample DPT-005 (27-28) at 1300
		28			0.0	
				2/2 %	0.0	
		29		100	0.0	
		30		%		
		31	Sand, wet, tan to red. loose	2/2 100 %	0.6	Sample DPT-005 (31-32) at 1310
		32			0.9	
		33		2/2 % 100	4.8	
		34		%	11.2	
		35		%		
		36				
		37		%		
		38				
		39		%		
		40		%		

1. HOLE NUMBER: DPT-006

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAD

SHEET 1 OF 3 SHEETS

4. PROJECT: Bldg 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHF

7. HOLE NUMBER (as shown on drawing title and title number): DPT-006

8. NAME OF DRILLER: Kerri Powell

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 35'

13. SIZE AND TYPE OF BIT: 2.25" Core Barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER

19. DATE HOLE (YYYYMMDD): a. STARTED 11/05/2019; b. COMPLETED 11/05/2019

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %

22. SIGNATURE OF INSPECTOR

23 ELEVATION	a DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	Clay, sandy, stiff, moist, brown to red, plastic	3/4 %	0.0	
		2		75 %		
		3				
		4				
		5		4/4 %		
		6		100 %		
		7				
		8				
		9		4/4 %		
		10		100 %		

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DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —
2. HOLE NUMBER: DPT-006
SHEET 2 OF 3 SHEETS

3. PROJECT: LHAAP Bldg 46A
4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		11		%	0.0	
		12	Sand, clayey, tan to red/brown, dry, loose	4/4 %		
		13		100 %		
		14				
		15		%		
		16		2/2 %		
		17		100		
		18		%	0.0	
		19		2/2	0.4	
			Clay, st. lt. sandy to silty, brown to red, dry, plastic	100 %	2.4	
		20			2.6	Sample DPT-006 (20-21) at 1120
			Sand, loose, tan to red, moist	2/2 %	2.0	
		21		100	5.0	
		22		%	12.4	
				2/2	5.0	
		23		100 %	6.4	
		24	Clay & sand, plastic, moist, red to brown	2/2 %	0.7	
		25		100	0.2	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-006

SHEET 3 OF 3 SHEETS

3. PROJECT: LHAAP 37 Lg UGA

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		26		%	0.3	
		27		2/2 100 %	0.0	
					0.0	Sample DPT-006 (27-28) at 1130
		28			0.0	
		29		2/2 100 %	0.0	
					0.0	
		30		%	0.0	Sample DPT-006 (29-31) at 1140
			Sand, loose, moist, tan	2/2 100 %	0.0	DUP-002 at 0830 MS/MSD
		31			0.0	
		32			0.0	
		33		2/2 100 %	0.0	
					0.0	
		34			0.0	
				%		
		35		1/1 100 %	0.0	
		36		%		
		37		%		
		38		%		
		39		%		
		40		%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER: DPT-007

DRILLING LOG
For use of this form see EM 1110-1-1804 the proponent agency is CECW-EG.

2. DIVISION: —	3. INSTALLATION: LHAAP; SHEET 1 OF 3 SHEETS
4. PROJECT: LHAAP RI & 46A	13. SIZE AND TYPE OF BIT: 2.25" core barrel
5. LOCATION (Coordinates or Station): —	14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —
	15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822DT
6. DRILLING AGENCY: WHE	16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —
7. HOLE NUMBER (as shown on drawing title and title number): DPT-007	17. TOTAL NUMBER CORE BOXES: —
8. NAME OF DRILLER: Kerri Powell	18. ELEVATION GROUND WATER:
9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.	19. DATE HOLE (YYYYMMDD): a. STARTED 11/05/2019 b. COMPLETED 11/05/2019
10. THICKNESS OF OVERBURDEN: —	20. ELEVATION TOP OF HOLE (feet): —
11. DEPTH DRILLED INTO ROCK: —	21. TOTAL CORE RECOVERY FOR BORING %:
12. TOTAL DEPTH OF HOLE: 36'	22. SIGNATURE OF INSPECTOR:

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	Clay, stiff, plastic, brown/red/tan	2/4 %	0.0	
		2				
		3		50 %		
		4				
		5		2/4 %		
		6		50 %		
		7				
		8		%		
		9		4/4 %		
		10		100		

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DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-007

SHEET 2 OF 3 SHEETS

3. PROJECT: Bldg 4CA

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		11		%	0.0	
		12		%		
		13		4/4 %		
		14		100		
		15		%		
		16		%	0.8	
		17	Sand, loose, tan, dry	2/2	1.1	
		18		100 %	0.8	
		19	Clay, sandy, stiff, plastic	2/2 %	0.1	
		20		100	2.1	
		21		2/2 %	1.5	
		22		100	1.7	
		23	Sand, loose, tan, moist	2/2 %	2.5	
		24		100	2.2	
		25		2/2 %	0.7	
				100	0.6	
					2.9	
					5.3	
					16.0	
					5.7	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-007

SHEET 3 OF 3 SHEETS

3. PROJECT: Bldg 4CA

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		26		%	2.8	
		27		2/2	6.8	
				%	6.2	Sample DPT-007 (27-28) at 1520
		28	Clay, stiff, Sandy plastic, dry	100	2.1	
		29		2/2	12.0	
				%	8.4	Sample DPT-007 (29-30) at 1530
		30		100	4.2	
		31		2/2	14.7	
				100	21.7	Sample DPT-007 (31-32) at 1540
		32	Sand, wet, loose, tan to red	%	42.8	
		33		2/2	43.1	
				%	47.6	
		34		100	39.0	
				%	59.6	
		35		2/2	70.5	
				100	%	
		36		%	287.0	
		37		%		
		38		%		
		39		%		
		40		%		

1. HOLE NUMBER DPT-008

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION —

3. INSTALLATION LMAAP

SHEET 1 OF 3 SHEETS

4. PROJECT LMAAP 31dg 4CA

5. LOCATION (Coordinates or Station) —

6. DRILLING AGENCY WHE

7. HOLE NUMBER (as shown on drawing title and title number) DPT-008

8. NAME OF DRILLER Kurt Powell

9. DIRECTION OF HOLE
☒ a. VERTICAL ☐ b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN —

11. DEPTH DRILLED INTO ROCK —

12. TOTAL DEPTH OF HOLE 36'

13. SIZE AND TYPE OF BIT 2.25" core barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL) —

15. MANUFACTURERS DESIGNATION OF DRILL Geoprobe 7822 DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN — a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES —

18. ELEVATION GROUND WATER

19. DATE HOLE (YYYYMMDD) a. STARTED 11/06/2019 b. COMPLETED 11/06/2019

20. ELEVATION TOP OF HOLE (feet) —

21. TOTAL CORE RECOVERY FOR BORING %

22. SIGNATURE OF INSPECTOR

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR ~~SAMPLE~~ NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	Silt, st.ff, crumbly, dry, brown to red	3/4 %	0.0	
		2		75 %	6.0	
		3		%	0.0	
		4				
		5		3/4 %	2.1	
		6		75 %	3.9	
		7				
		8		%	1.1	
		9		4/4 %	7.5	
		10				

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DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —
2. HOLE NUMBER: DPT-008
SHEET 2 OF 3 SHEETS

3. PROJECT: Bldg 46A
4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		11	Clay, stiff, moist, plastic, silty, tan to red	%	5.3	
					0.5	
		12		%		
		13		4/4	0.6	
				%		
		14		100	5.5	
		15		%		
					6.5	
		16	Sand, loose, dry, silty/clayey, tan/red	%	6.3	
		17		2/2	3.1	
				100		
		18		%	3.4	
				2/2	4.9	
		19	Silt/clay, gray to red to tan, dry	100 %	1.9	
					2.4	
		20		2/2 %	4.7	
		21		100	0.1	
				%	3.3	
		22		2/2	5.1	
		23	Sand, loose, tan, dry going to wet at 24', clayey	100 %	19.2	
		24			7.1	
				4/4 %	17.6	
		25		100		

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6. PROJECT
7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-008

SHEET 3 OF 3 SHEETS

3. PROJECT: Bldg 46A

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		26		%		Sample DPT-008 (26-27) at 1050
		27	Clay, stiff sandy, plastic, moist, stiff		4.6	
				%		Sample DPT-008 (27-28) at 1100
		28			3.0	
				%	0.3	
		29		2/2	9.6	Sample DPT-008 (29-30) at 1110
		30	Sand, wet, tan to red, clayey, very loose and wet at 33'	100	9.6	
				%	12.6	
		31		2/2	0.3	
				100	4.4	
		32		%	8.3	
				2/2	19.3	
		33		100		
		34		%	48.7	
				2/2	11.2	
		35		100		
		36		%	32.0	
		37		%		
		38		%		
		39				
		40		%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER DPT-009

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LMAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: Bldg 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-009

8. NAME OF DRILLER: Kerr, Powell

9. DIRECTION OF HOLE: ☒ a. VERTICAL ☐ b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 40'

13. SIZE AND TYPE OF BIT: 2.25" core barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER

19. DATE HOLE (YYYYMMDD): a. STARTED 11/05/2019; b. COMPLETED 11/05/2019

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %

22. SIGNATURE OF INSPECTOR

23 ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	Clay, sand and silt, moist, red/gray/brown, plastic, stiff	3/4 %	PID 0.0	
		2		75 %		
		3		%		
		4				
		5		%		
		6		3/4 %		
		7		75 %		
		8		%		
		9				
		10		%		

ENG FORM 1836, MAR 1971 PREVIOUS EDITIONS ARE OBSOLETE. (Translucent) PAGE 1

HOLE NUMBER

VERSI

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-009

SHEET 2 OF 3 SHEETS

3. PROJECT: LHAAP Bldg 46A

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		11		4/4 100 %	0.0	
		12		%		
		13		4/4 %		
		14		100		
		15	Sand, tan, loose, dry, fine grained	%		
		16		2/2 %		
		17		100		
		18		%		
		19	Clay, silty, plastic, brown red, some sand	2/2 100 %		
		20				
		21		2/2 % 100	0.1	
		22		%	1.2	
		23	Sand with clay, red to tan, moist, semi-loose	2/2 100 %	1.0 0.4	
		24			41.3	
		25		2/2 % 100	5.9 1.4	Sample DPT-009 (24-25) at 0940

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE	2. HOLE NUMBER	SHEET 3 OF 3 SHEETS
—	DPT-009	

3. PROJECT	4. INSTALLATION
LHAAP BLG UCA	LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		26	Clay w/ sand, st. fl. plastic, angular grad mixed to dark brown	%	1.9	
		27		2/2 100 %	1.0	
		28			0.0	
		29		2/2 % 100 %	0.0	Sngl'L DPT-009 (28-29) at 0950
		30			0.0	
		31		2/2 100 %	0.0	
		32	Intermixed sand and clay, dark gray to brown, dry, st. ff		0.0	
		33		2/2 % 100	0.0	
		34			0.0	Sngl DPT-009 (31-32) at 1000 - DUP-001 at 0800 - MS/MSD
		35		2/2 % 100 %	0.0	
		36			0.0	
		37		2/2 % 100	0.0	
		38			0.0	
		39		2/2 % 100 %	0.0	
		40			0.0	

1. HOLE NUMBER DPT-010

DRILLING LOG
For use of this form see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION —

3. INSTALLATION: LHAAP — SHEET 1 OF 3 SHEETS

4. PROJECT: LHAAP Bldg 4LA

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-010

8. NAME OF DRILLER: Kerri Powell

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 36'

13. SIZE AND TYPE OF BIT: 2.75" core barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER

19. DATE HOLE (YYYYMMDD): a. STARTED 11/06/2019 b. COMPLETED 11/06/2019

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %

22. SIGNATURE OF INSPECTOR

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc. if significant)
		1	Silt, dry, red to tan, crumbly		0.4 %	
		2		2/4 50 %	1.5 %	
		3				
		4			0.0 %	
		5			2.7 %	
		6	Clay, stiff, plastic, gray/red, dry	4/4 100 %	0.0 %	
		7				
		8			0.0 %	
		9	Silt, SAA	4/4 100 %	0.0 %	
		10				

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DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —

2. HOLE NUMBER: DPT-010

SHEET 2 OF 3 SHEETS

3. PROJECT: Bldg 4LA

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		11		%	0.9	
		12		%	1.2	
		13	Clay, stiff, dry, gray to red		0.6	
		14		4/4 % 100	0.2	
		15		%		
		16			5.2	
		17	Clay with interbedded silt zones, dry, brown to red	% 2/2 100	4.5	
		18		%	2.6	
		19		2/2 100 %	0.9	
		20			2.3	
		21		2/2 % 100	4.7	
		22		%	2.1	
		23		2/2 100 %	83	
		24	Clay, stiff, plastic, moist, red to gray		1.2	Sample DPT-010 (23-24) at 1200
		25		2/2 100 %	3.9	
					0.1	

ENG FORM 1836A, JUN 1967 PREVIOUS EDITIONS ARE OBSOLETE. *(Translucent)*

6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE: —
2. HOLE NUMBER: DPT-010
SHEET 3 OF 3 SHEETS
3. PROJECT: Bldg 4CA
4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		26		%	0.0	
		27		2/2 100 %	2.5	
		28			3.4	
		29			1.6	Sample DPT-010 (28-29) at 1210
		30		2/2 100 %	0.8	
		31			0.6	
		32			1.2	
		33	Sand, clayey, wet, tan, cohesive	2/2 100 %	9.2	
		34			13.0	
		35			7.5	
		36		2/2 100 %	5.7	
		37			11.8	Sample DPT-010 (37-38) at 1220
		38			5.8	DUP-003 at 0800
		39		2/2 100 %	12.4	
		40			8.2	
					11.9	
				%		
				%		
				%		

1. HOLE NUMBER: DPT-011

DRILLING LOG
For use of this form see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION: —

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: LHAAP Bldg 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-011

8. NAME OF DRILLER: Kerri Powell

9. DIRECTION OF HOLE: ☐ a. VERTICAL ☐ b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 38'

13. SIZE AND TYPE OF BIT: 2.25" Core barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822 DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER:

19. DATE HOLE (YYYYMMDD): a. STARTED 11/06/2019; b. COMPLETED 11/06/2019

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %:

22. SIGNATURE OF INSPECTOR:

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	Silt, dry, brown to red, loose	3/4 %	0.0	
		2		75 %		
		3		%		
		4				
		5		%		
		6	Clay/silt, dry, stiff, gray/red	4/4 %		
		7		100 %		
		8			4.7	
		9		4/4 %		
		10		100	6.0	

ENG FORM 1836, MAR 1971 PREVIOUS EDITIONS ARE OBSOLETE. (Translucent) HOLE NUMBER

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE	2. HOLE NUMBER	SHEET	OF	SHEETS
—	DPT-011	2	3	

3. PROJECT: Bldg 46A

4. INSTALLATION: HHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		11		%	3.4	
		12		%	0.7	
		13		%	3.1	
		14		4/4 100 %		
		15		%	1.8	
		16		%	0.4	
		17		2/2 100 %	0.1	
		18		%	1.4	
		19		2/2 100 %	3.0	
		20		%	0.8	
		21		2/2 100 %	6.0	
		22		%	3.0	
		23	Clay, stiff, plastic, moist, brown to red, Sandy at 26'	2/2 100 %	2.1	Sample DPT-011 (22-23) at 1340
		24		%	2.9	
		25		2/2 100 %		

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE	2. HOLE NUMBER	SHEET 3 OF 3 SHEETS
—	DPT-011	

3. PROJECT	4. INSTALLATION
Bldg 4CA	LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		26		%	2.6	
		27		2/2 100 %	0.5	Single DPT-011 (27-28) at 1350
		28			2.0	
		29		2/2 100 %	3.6	
		30			3.3	
		31		2/2 100 %	1.9	
		32			4.9	Single DPT-011 (31-32) at 1500
		33	Sand w/ clay, slight plastic, moist, tan to red, becomes loose at 38'	2/2 100 %	5.6	
		34			5.6	
		35		2/2 100 %	9.0	
		36			3.3	
		37		2/2 100 %	6.0	
		38			15.3	
		39		%	15.0	
		40		%	10.7	

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 2 & 3 SHEETS

4. PROJECT: LHAAP BLDG. 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-012

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 24' BGS, 33' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/04/2020; b. COMPLETED 06/04/2020

20. ELEVATION TOP OF HOLE (feet): — CONT. DRILLING 06/08/

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
			CONCRETE	1.5/4 %		
		1	SILTY CLAY, MOTTLED BROWN, RED, GREY, MED. STIFF, PLASTIC, MOIST			
		2		%		
		3		%	7.1	SAMPLE DPT-012(3-4) 0920
		4			2.4	
		5		%		
		6		4/4 %	1.7	
		7				SAMPLE DPT-012(7-8) 0945
		8		%	1.0	
		9		%		

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PROJECT

HOLE NUMBER

VERSION 1.3

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-012

SHEET 2 OF ~~2~~ 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	10			4/4 %	0.0	
	11			%	1.7	SAMPLE DPT-012 (11-12) 0925
	12				31.4	
	13			%	3.9	
	14			4/4 %	0.0	
	15			%		
	16		SILTY CLAY, SOME SAND LENSES, LT. BROWN TO GREY, MED. STIFF, PLASTIC, MOIST TO WET		0.0	
	17			2/2 %	0.1	SAMPLE DPT-012 (17-18) 0940
	18				0.0	
	19		SAND, LT. BROWN TO GREY, LOOSE, FINE, MOIST TO WET	2/2 %	1.7	
	20				1.5	
	21			2/2 %	2.3	
	22		SILTY CLAY, GREY, STIFF, PLASTIC, MOIST		0.0	SET WELL SCREEN 14'-24' BGS
	23			2/2 %	0.6	
	24				0.0	

ENG FORM 1836A, JUN 1967 PREVIOUS EDITIONS ARE OBSOLETE. *(Translucent)*

6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-012

SHEET 3 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
			SILTY CLAY W/ SAND, LT. BROWN, SOFT, PLASTIC, WET	2 %	0.0	06/08/2020: PULL EXISTING TEMP. WELL & DRILL DOWN TO 38' BGS.
	25		CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, MOIST	2/2	0.3	
			SAND W/ SOME CLAY, LT. BROWN TO GREY, MED. STIFF, PLASTIC, MOIST TO WET, LOOSE, FINE TO MED. GRAIN	%	8.4	
	26		SANDY SILT WITH	2	2.7	
	27		CLAY, LOOSE, FINE, COHESIVE, LT. BROWN TO DARK BROWN, MOIST TO WET	2/2 %	15.9	
	28				30.5	
					38.2	
	29			2/2 %	14.6	
					25.0	
	30					
				%	40.6	
	31			2/2	15.5	
				%	8.6	
	32		CLAY, DARK BROWN, V. STIFF, DRY TO MOIST, PLASTIC	1/1	0.4	VERY HARD CLAY 32'-33' BGS, DIFFICULT TO DRILL
	33			%		SET DPT-012 SCREEN 23' - 33' BGS
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: LHAAP Bldg. 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-013

8. NAME OF DRILLER: Kerri Powell

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 26' BGS / 33' BGS

13. SIZE AND TYPE OF BIT: 3.25" Core Barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/04/2020; b. COMPLETED 06/04/2020

20. ELEVATION TOP OF HOLE (feet): — CONT. DEEPER 06/08/2

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: [signature]

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SILTY CLAY, LT. BROWN, SOFT, PLASTIC, WET, W/ TRACE SAND	%	2.9	PID HARD TIME ZEROING IN HUMIDITY, MAY BE INNACURATE
		2		2/4 %	2.3	SAMPLE DPT-013(1-2) 0755
		3		%	0.9	
		4				
		5		%	0.5	
		6	CLAY MOTTLED LT. BROWN, RED & GREY STIFF, PLASTIC, DRY	3.5/4 %	0.8	
		7				
		8	SILTY CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, DRY	%	0.4	
		9		4/4 %	4.4	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-013

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	10			%	4.8	
	11			%		SAMPLE DPT-013(11-12) 0800
	12				5.1	
	13			%	4.4	
	14			4/4 %	6.3	
	15			%	6.6	
	16		SAND/ SILT, MOTTLED LT. BROWN, ORANGE & GREY, DRY, FINE GRAIN, SOME SMALL CLAY LENSES	2/2 %	3.0	
	17				2.5	SAMPLE DPT-013(17-18) 0810
	18			%	10.1	
	19		SILTY CLAY W/ SMALL SAND LENSES, LT. BROWN, STIFF, PLASTIC, DRY TO MOIST	2/2 %	7.1 9.4 3.1	
	20		SILTY CLAY, LT. BROWN TO GREY, STIFF PLASTIC, DRY TO MOIST		16.6	SAMPLE DPT-013(20-21) 0835
	21			2/2 %	10.0	
	22				9.8	
	23		SAND, LT. BROWN, LOOSE, FINE GRAIN, DRY	2/2 %	8.5 22.5	
	24		SILTY CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, DRY	%	92.2	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG (Continuation Sheet) For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.	1. ELEVATION TOP OF HOLE	2. HOLE NUMBER DPT-013	SHEET 3 OF 3 SHEETS
3. PROJECT		4. INSTALLATION	

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		25	CLAY, LT. BROWN, MED. STIFF, PLASTIC, SLIGHTLY MOIST	%	63.0 66.0	SET WELL SCREEN @ ~16'-26'
		26		%	30.7	06/08: PULL EXISTING PVC TEMP. WELL & CONT. DRILLING TO 33' BGS
		27	SILTY CLAY WITH SAND, LT. BROWN TO GREY, SOFT, PLASTIC, WET	1.5/2 %	0.1 0.0 0.0	
		28				
		29		2/2 %	0.0 0.2	
		30	SANDY CLAY W/ SILT, DARK BROWN, STIFF, DRY TO MOIST, MED. PLASTIC		0.0	
		31		% 2/2	3.7 47.6	WELL SCREEN SET FROM 22'-33' BGS
		32	CLAYEY SAND, LOOSE, WET, FINE GRAIN, BROWN	% 1/1	71.4 54.9	
		33			37.1	
				%		
				%		
				%		
				%		
				%		

ENG FORM 1836A, JUN 1967	PREVIOUS EDITIONS ARE OBSOLETE. (Translucent)	6. PROJECT	7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION —

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: LHAAP Bldg. 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-014

8. NAME OF DRILLER: Kerri Powell

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 34' BGS

13. SIZE AND TYPE OF BIT: 3.25" Core Barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL):

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/03/2020 b. COMPLETED 06/03/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: John Morgan

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SANDY CLAY, LT. BROWN, SOFT, WET, MED. PLAST., FINE GRAIN	3/4 %	0.1	
		2				
		3	SILTY CLAY, LT. BROWN, SOFT, MOIST TO WET, PLASTIC		0.0	SAMPLE DPT-014 (3-4) 1540
		4		%	27.8	
		5	CLAY, LT. BROWN TO GREY, STIFF, MOIST, PLASTIC	3/4 %	0.1	
		6			0.0	
		7		%		
		8		%	1.1	
		9		4/4 %	4.2	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-014

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	10		SILTY CLAY, LT. BROWN TO GREY, STIFF, DRY, LOW PLAST.	4/4 %	2.3	
	11			%	9.5	SAMPLE DPT-014 (10-11) 1620
	12			%	0.4	
	13		SILTY SAND, LT. BROWN, LOOSE, DRY, FINE GRAIN	4/4 %	2.9	
	14		SILTY CLAY, LT. BROWN TO GREY, STIFF, DRY, MED. PLAST.			
	15			%	0.6	
	16			%	3.0	
	17			4/4 %	3.9	
	18					
	19		SILTY W/ CLAY, SAND THROUGHOUT, LT. BROWN, DRY, LOW PLAST., FINE	%	15.2	SAMPLE DPT-014 (19-20) 1550
	20			%	1.2	
	21			4/4 %	3.4	
	22			%		
	23					
	24			%	7.1	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-014

SHEET 3 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		25	SILTY CLAY, LT. BROWN TO GREY, MED. STIFF, MOIST, PLASTIC	2/2 %	4.2	
			SAND, LT. BROWN, LOOSE, DRY TO MOIST, FINE GRAIN		6.1	SAMPLE DPT-014 (25-26) 1600
		26	SILTY CLAY, LT. BROWN TO GREY, MED. TO SOFT, MOIST, PLASTIC	%	19.9	
		27		2/2	3.0	
				%	3.1	
		28			2.2	
		29		2/2 %	1.3	
					2.8	
		30			3.7	
				%	0.0	
		31		2/2	1.0	PULLED OUT OF ORIGINAL HOLE, GROUT, DRIVE DOWN TO 26' @ NEW HOLE TO SET WELL SCREEN ~16'-26'
		32		%	3.1	
			SANDY CLAY, GREY TO ORANGE, SOFT, MOIST TO WET, MED. PLAST., FINE GRAIN		0.0	
		33		2/2 %	0.0	
		34			1.7	
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION —

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: LHAAP BLDG. 46A

5. LOCATION (Coordinates or Station) —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-015

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN —

11. DEPTH DRILLED INTO ROCK —

12. TOTAL DEPTH OF HOLE: 50' BGS

13. SIZE AND TYPE OF BIT: 2.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL) —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN — a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES —

18. ELEVATION GROUND WATER —

19. DATE HOLE (YYYYMMDD) a. STARTED 06/03/2020 b. COMPLETED 06/03/2020

20. ELEVATION TOP OF HOLE (feet) —

21. TOTAL CORE RECOVERY FOR BORING %

22. SIGNATURE OF INSPECTOR: John Morrow

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	P.I.D e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SILTY CLAY W/SAND, LT. BROWN, MED. STIFF, PLASTIC, WET	%	0	
		2		2/4 %	5.6	
		3		%	5.8	SAMPLE DPT-15(3-4) 0740
		4		%		
		5	SILTY CLAY, LT. BROWN TO GREY, STIFF, DRY	%	0.0	PID ERRATIC DUE TO HEAT/HUMIDITY
		6		3/4 %	0.0	
		7		%	0.0	
		8		%		
		9		%	0.0	

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VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-015

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	10			4/4 %	0.0	
	11				0.0	
	12				18.1	
	13			4/4 %		
	14				1.2	
	15			%		SAMPLE DPT-015(15-16) 0750
	16		CLAYEY SAND, LT. BRWN. TO GREY. LOOSE, DRY, FINE		13.7	
	17			2/2 %	11.5 25.2	
	18					
	19		SILTY CLAY, STIFF, LT. BROWN TO GREY, DRY, LOW PLAST., DRY	2/2 %	9.1 12.7	
	20		CLAYEY SAND W/ SILT, GREY TO ORANGE, LOOSE, FINE GRAIN, DRY, LOW PLAST.		18.0	SAMPLE DPT-015 (19-20) 0805
	21		SILTY CLAY, LT. BRWN. TO GREY, STIFF, DRY TO MOIST, PLASTIC	2/2 %	2.3 2.1	
	22				0.1	
	23			2/2 %	2.2 0.0	SAMPLE DPT-015 (23-24) 0900
	24				0.0	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-015

SHEET 3 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. P.I.D. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	25			2/2 %	0.0	P.I.D. NOW WORKING PROPERLY, READINGS ABOVE MAY BE INACCURATE
	26		CLAYEY SAND, LT. BROWN TO GREY, LOOSE, MED. PLAST., WET, FINE GRAIN		0.0	
	27		SAND, LT. BRWN. TO GREY, LOOSE, LOW PLAST., WET, FINE GRAIN	2/2 %	0.0	
	28		SANDY CLAY, LT. BROWN TO ORANGE, MED. STIFF, PLASTIC, MOIST, FINE		0.0	
	29		CLAYEY SAND, LT. BROWN, LOOSE, MOIST, FINE	2/2 %	0.0	
	30		SANDY CLAY, LT. BROWN TO ORANGE, MED. STIFF, PLASTIC, MOIST, FINE		0.0	
	31			2/2 %	0.0	
	32				0.0	
	33			2/2 %	0.0	
	34				0.0	
	35			2/2 %	0.0	
	36				0.0	
	37		CLAY, GREY TO LT. BRWN., MED. STIFF, PLASTIC, FINE	2/2 %	0.0	
	38				0.0	
	39			2/2 %	0.0	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-015

SHEET 4 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		40		%	0.0	
			SILTY CLAY, LT. BROWN, MED. STIFF, MOIST, PLASTIC		0.0	
		41		2/2 %	0.0	
		42			0.0	
			SANDY CLAY, LT. BROWN, MED. STIFF, MOIST TO WET, MED. PLASTIC	1.5/2 %	0.0	
		43			0.0	
			CLAYEY SAND, LT. BROWN, LOOSE, MOIST TO WET, FINE GRAIN	%	0.0	
		44			0.0	
		45		2/2 %	0.0	
			SILTY CLAY, DARK GREY TO DARK BRWN., MED. STIFF, PLASTIC, WET		0.0	
		46			0.0	
			SAND, BROWN TO DARK GREY, LOOSE, FINE GRAIN, WET	2/2 %	0.0	
		47			0.0	
		48		%	0.0	PULLED RODS UP 3' DEEP WELL SCREEN SET 40'-50' BGS, SHALLOW WELL SCREEN SET @ 21'-31' BGS
		49		2/2 %	0.0	
		50			0.0	
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION —

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: LHAAP BLDG. 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-016

8. NAME OF DRILLER: KARRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN —

11. DEPTH DRILLED INTO ROCK —

12. TOTAL DEPTH OF HOLE 42' BGS

13. SIZE AND TYPE OF BIT 2.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL) —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES —

18. ELEVATION GROUND WATER —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/02/2020 b. COMPLETED 06/02/2020

20. ELEVATION TOP OF HOLE (feet) —

21. TOTAL CORE RECOVERY FOR BORING % —

22. SIGNATURE OF INSPECTOR

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	P.I.De. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SILTY CLAY, LT. BROWN TO GREY, MED. STIFF, MED. PLASTICITY, FINE GRAIN, WET	% 2/4	0.0	DUP & MS/MSD TAKEN FOR MOBILE LAB
		2		%	0.0	
		3		%	0.0	
		4				
		5	CLAY, LT. BROWN TO GREY, STIFF, MED. PLAST., FINE GRAIN, MOIST	% 4/4	0.0	
		6		%	0.0	
		7				SAMPLE DPT-016(7-8) 1000
		8	SANDY CLAY, LT. BROWN, STIFF, LOW PLAST., FINE GRAIN, MOIST	%	0.0	
		9		%	0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-016

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		11	SILTY CLAY, GREY, STIFF, PLASTIC, FINE, MOIST	4/4 %	0.0	
		12		%	0.0	
		13		2/2 %	0.0	SAMPLE DPT-016 (12-14) 1005
		14			0.0	
		15		2/2 %	0.0	
		16			0.0	
		17		2/2 %	0.0	
		18			0.0	
		19		2/2 %	0.0	
		20	SANDY CLAY, LT. BROWN TO ORANGE, STIFF, PLASTIC, FINE, DRY TO MOIST		0.0	
		21	CLAYEY SAND, GREY TO LT. BROWN, STIFF MED. PLAST., MOIST	2/2 %	0.0	SAMPLE DPT-016 (21-22) 1015
		22			0.0	
		23	SILTY CLAY, GREY TO ORANGE, STIFF, PLASTIC, MOIST	2/2 %	0.0	
		24			0.0	
		25		%	0.0	SAMPLE DPT-016 (24-25) 1050, CORES APPEAR WET @ ~25' BGS

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-016

SHEET 3 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		26	CLAYEY SAND, LT. BROWN TO GREY, MED. STIFF, LOW PLAST., MOIST TO WET	2/2 %	0.0 0.0	
		27		2/2 %	0.0 0.0 0.0	
		28				
		29		2/2 %	0.0 0.0 0.0	
		30				
		31		2/2 %	0.0 0.0 0.0	
		32	SANDY CLAY, ORANGE TO GREY, STIFF, PLASTIC, MOIST TO WET			
		33	SILTY CLAY, LT. BROWN TO GREY, STIFF, PLASTIC DRY TO MOIST	2/2 %	0.0 0.0 0.0	
		34				
		35		2/2 %	0.0 0.0 0.0	
		36				
		37		2/2 %	0.0 0.0 0.0	
		38	CLAYEY SAND, LT. BROWN TO ORANGE, MED. STIFF, MED. PLAST., MOIST SAND, LT. BRWN TO GREY, SOFT, WET, FINE GRAIN, SOME CLAY			
		39		2/2 %	0.0 0.0 0.0	
		40				

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-016

SHEET 4 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		41		2/2 %		STOP DRILLING @ 42', SET TEMP WELL AFTER PULLING RODS UP 2', SET SHALLOW WELL @ 33' BGS
		42		%		Deep well screen set at ~32'-42' bgs
				%		Shallow well screen set at ~23'-33' bgs
				%		
				%		
				%		
				%		
				%		
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION —

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: LHAAP BLDG. 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-017

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: ☒ a. VERTICAL ☐ b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 42' BGS

13. SIZE AND TYPE OF BIT: 2.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/03/2020; b. COMPLETED 06/03/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %:

22. SIGNATURE OF INSPECTOR: [signature]

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SILTY CLAY, DARK BROWN, STIFF, PLASTIC, DRY TO MOIST	%	0.0	
		2		2/4 %	0.0	
		3		%	0.0	
		4			0.0	
		5		%	0.0	
		6	SAND W/ SILT, LT. BROWN TO ORANGE, MED. STIFF, FINE GRAIN, DRY	3/4 %	5.4	
		7		%	0.8	
		8				
		9		%		

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-017

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		10		4/4 %	8.3	SAMPLE DPT-017(10-11) 1340
		11		%		
		12			2.5	
		13	SILT W/ TRACE CLAY, LT. BROWN, LOW PLAST, LOOSE, DRY	%	0.8	
		14		4/4 %	11.9	
		15		%		
		16			14.7	
		17	SANDY SILT W/ TRACE CLAY, LT. BROWN, LOW PLAST., LOOSE, DRY	%	2.2	SAMPLE DPT-017(17-18) 1350
		18		4/4 %	21.8	
		19		%	15.9	SAMPLE DPT-017 (19-20)
		20			0.1	1410
		21	SILTY CLAY, LT. BROWN, STIFF, PLASTIC, DRY TO MOIST	%		
		22		4/4 %	1.6	
		23		%		SAMPLE DPT-017(23-24) 1405
		24		%	3.5	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-017

SHEET 3 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		25	CLAY, LT. BROWN TO GREY/ORANGE, STIFF, PLASTIC, MOIST TO WET	4/4 %	8.0	
		26			1.2	
		27				
		28		%	2.5	
		29	SAND W/ LARGE AMOUNTS OF SILT & CLAY, MOTTLED GREY & ORANGE, MED. PLASTIC, FINE GRAIN, WET		10.3	
		30		4/4 %	4.8	
		31				
		32	SILTY CLAY, MOTTLED GREY & ORANGE, STIFF, PLASTIC MOIST TO WET	%	6.1	
		33		2/2 %	11.9 2.4	
		34			1.7	
		35	SILTY CLAY, GREY TO ORANGE, SOFT, PLASTIC, MOIST	2/2 %	0.9 3.6	
		36		%	7.0	
		37		2/2 %	13.3 16.5	
		38			21.6	
		39	SILTY SAND, GREY TO ORANGE, LOOSE, FINE GRAIN, MOIST	%	3.6 1.8	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-017

SHEET 4 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	40		SAND, LT. BROWN TO ORANGE, LOOSE, WET, FINE GRAIN	2/2 %	8.1	PULL RODS UP 4'
	41		INCREASING CLAY CONTENT NEAR 41.5' BGS	2/2 %	5.2	DEEP WELL SCREEN @ ~32-42
	42				1.2	SHALLOW WELL SCREEN ~22-32
					0.0	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

.OG
[illegible] M 1110-1-1804;
[illegible] CECW-EG.

2. DIVISION —

3. INSTALLATION
LHAAP

SHEET 1 OF 3 SHEETS

[illegible]
LHAAP BLDG. 46A
LOCATION (Coordinates or Station)
—

4. DRILLING AGENCY
WHE

5. HOLE NUMBER (as shown on drawing title and title number)
DPT-018

6. NAME OF DRILLER
KARRI POWELL

7. DIRECTION OF HOLE
[X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

8. THICKNESS OF OVERBURDEN —

9. DEPTH DRILLED INTO ROCK —

10. TOTAL DEPTH OF HOLE 40' BGS

11. SIZE AND TYPE OF BIT 2.25" CORE BARREL

12. DATUM FOR ELEVATION SHOWN (TBM or MSL)
—

13. MANUFACTURERS DESIGNATION OF DRILL
GEOPROBE 7822 DT

14. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN — a. DISTURBED — b. UNDISTURBED —

15. TOTAL NUMBER CORE BOXES —

16. ELEVATION GROUND WATER —

17. DATE HOLE (YYYYMMDD) a. STARTED 06/01/2020 b. COMPLETED 06/01/2020

18. ELEVATION TOP OF HOLE (feet) —

19. TOTAL CORE RECOVERY FOR BORING % —

20. SIGNATURE OF INSPECTOR

21. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. P.I.D. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	CLAYEY SILT, RED/LT. BROWN, WET, SLIGHTLY PLASTIC		% 0.0	
		2		4/4	% 1.0	
		3			% 0.0	
		4	CLAY, RED TO GREY, STIFF, MOIST, PLASTIC			
		5			% 0.0	
		6		4/4	% 0.3	
		7	SANDY CLAY, GREY TO LT. BROWN, FINE GRAIN, LOOSE, SLIGHTLY PLASTIC			SAMPLE DPT-018(7-8) 1505
		8			% 0.6	
		9	SILTY CLAY, GREY TO LT. BROWN, STIFF, MOIST TO DRY, PLASTIC	2/2	0.2 % 0.2 0.6	

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HOLE NUMBER

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-018

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	P.I.D. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		11		2/2 %	1.5	
					1.4	
		12			0.1	
				%		
		13			1.4	
				%	2.0	
		14		4/4		
						SAMPLE DPT-018(15-16)
		15		%		1515
					5.7	
		16				
			CLAYEY SILT, MOTTLED LT. BROWN, ORANGE, GREY, DRY, HIGH PLASTICITY	%	3.4	
		17				
				4/4 %		
		18			2.4	
				%		
		19				
					3.1	
		20				
				%	1.7	
		21	SAND, ORANGE TO LT. BRWN., DRY, LOOSE, LOW PLAST.	2/2	1.4	SAMPLE DPT-018(21-22)
		22	SILTY CLAY, ORANGE TO LT. BROWN, STIFF, DRY TO MOIST, HIGH PLAST.	%	0.2	1525
					0.1	
		23		2/2 %	0.2	
					0.6	
		24				
				%	1.5	
		25				

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-018

SHEET 3 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	P.I.D.e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	26			2/2 %	0.6 1.8	
	27			2/2 %	1.6 0.5	
	28				1.2	
	29			2/2 %	1.4 0.8	
	30			%	1.3	
	31			2/2 %	17.0 7.9	
	32				4.0	
	33		~~SANDY CLAY, LIGHT BROWN TO GREY, STIFF, DRY TO MOIST, FINE GRAIN~~ GM	2/2 %	33.1 42.7	SAMPLE DPT-018(32-34) 1605
	34			%	11.4	
	35			2/2 %	11.7 12.8	PULL RODS UP 4'
	36		SAND W/ TRACE CLAY, LIGHT BROWN TO GREY, FINE, LOOSE, WET	%	6.1	~~SET DEEP WELL AFTER PULLING RODS UP 3' 11", @ 32' 35" 2m~~
	37			2/2 %	1.6 12.8	SET SHALLOW WELL @22' BGS
	38				0.1 —	Deep well screen at ~30-40' bgs
	39			2/2 %	—	Shallow well screen at ~12-22' bgs
	40			%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION: —

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: LHAAP Bldg 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-019

8. NAME OF DRILLER: Kerri Powell

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 36.5' BGS

13. SIZE AND TYPE OF BIT: 2.25" core barrel

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/01/2020; b. COMPLETED 06/01/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: [signature]

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. ~~BOX OR~~ SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	Sand and silt, clayey at 1', dang, red/brown slightly plastic		0.8 %	
		2		2/4	0.0 %	
		3				
		4			1.0 %	Sample DPT-019 (4-5) 0955
		5	Clay, stiff, silty, red to gray, moist		6.4 %	
		6		3/4	0.0 %	
		7				
		8	Silt, clayey, loose sand, tan to red		1.0 %	Sample DPT-019 (8-9) 1015
		9	Clay, stiff, plastic, dry, tan, silty	2/2 %	0.4	
					0.1	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-019

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		11		2/2 %	0.0	
					0.0	
		12			0.0	
			Silt w/ clay, stiff, dry, brown to gray	%	0.1	
		13		2/2	0.1	
				%	0.0	
		14			0.4	Sample DPT-019 (14-15) 1055
				2/2 %	0.2	
		15			0.2	
			Sand, red, silty, cohesive		0.0	
		16		%	0.2	
				4/4 %	0.0	
		17			0.0	
			Silty clay, dry, stiff, plastic, brown to gray	%	0.0	
		18			0.0	
				2/2 %	0.0	
		19			0.0	
				%	0.0	
		20			0.3	Sample DPT-019 (22-23) 1305
				2/2 %	3.0	
		21	Sand, tan, loose, fine grain, silty		1.0	
				%	0.2	
		22		2/2 %	0.1	
		23				
			Sand/clay, stiff, very moist, tan to red			
		24				
		25				

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-019

SHEET 3 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		26		%	0.0	
		27	Clay, silty, brown to gray, stiff, damp	2/2 %	0.3	
		28			0.0	
		29		% 2/2	0.0	
		30		%	0.0	
		31	Turns dark gray	2/2 %	0.0	
		32			0.0	
		33		% 2/2	0.0	
		34			0.0	
		35	Sand w/ some gravel loose, moist, red fine grain	% 1.5/2	0.0	
		36		%	0.0	Driller cannot get past 36.5'
				0.2/0.5	0.0	Set deep well after pulling rods up 2'
				%		Set shallow well at 26' bgs (Screen ~ 16-26' bgs)
				%		Deep screen ~ 26.5 - 36.5 bgs
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: LHAAP BLDG. 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-020

8. NAME OF DRILLER: KEER. POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 44'

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822 DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/04/2020 b. COMPLETED 06/04/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: [signature]

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SANDY/SILTY CLAY, LT. BROWN TO DARK BROWN, MED. STIFF, MOIST TO WET, PLASTIC	%	1.9	
		2		3/4 %	0.0	
		3		%	0.0	
		4				
		5		%	0.0	SAMPLE DPT-020(5-6) 1120
		6	SILTY CLAY, LT. BROWN TO GREY, STIFF, MOIST, PLASTIC	2.5/4 %	0.0	
		7				
		8		%	0.0	
		9	CLAYEY SILT W/ TRACE SAND, STIFF, LOW PLAST., DRY	%	0.2	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-020

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	10			4/4 %	3.6	
	11			%	4.7	SAMPLE DPT-020 (11-12) 1025
	12					
	13			%	2.2	
	14		SILTY CLAY, LT. BRWN., STIFF, LOW PLAST., DRY	4/4 %	6.0	SAMPLE DPT-020 (14-15) 1100
	15					
	16			%	0.7	
	17			%	8.4	
	18			4/4 %	17.1	SAMPLE DPT-020 (18-19) 1035
	19					
	20			%	3.7	
	21		SILTY SAND, LT. BRWN. TO ORANGE, LOOSE, DRY	%	0.0	
	22			4/4 %	0.0	
	23					
	24		CLAY, DARK BROWN TO GREY, STIFF, PLASTIC, MOIST	%	0.0	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE	2. HOLE NUMBER	SHEET 3 OF 4 SHEETS
	DPT-020	
3. PROJECT	4. INSTALLATION	
	LHAAP	

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		25		2/2 %	7.0 9.2	
		26		%	18.6	
		27		2/2 %	24.9 7.6	
		28	CLAY, LT. BRWN. TO GREY, SOFT, PLASTIC, MOIST		2.0	
		29		2/2 %	11.3 14.0	
		30	CLAYEY SAND, LT. BRWN., GREY, ORANGE, FINE, WET		12.8	
		31	SILTY CLAY, ORANGE TO LT. BROWN, SOFT, PLASTIC, WET	2/2 %	% 14.5 4.9	
		32			20.7	
		33		2/2 %	12.5 9.4	
		34			10.6	
		35	SILTY CLAY W/ TRACE SAND, MOTTLED LT. BROWN, ORANGE & GREY, SOFT, MOIST TO WET	2/2 %	23.6 8.8	
		36	SAND/CLAY, ORANGE SOFT, PLASTIC, WET	%	13.8	
		37		2/2 %	2.8 15.4	
		38			16.9	
		39	SAND, ORANGE & GREY, LOOSE	2/2 %	16.3 0.8	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-020

SHEET 4 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	40			%	11.6	
					9.7	
	41			2/2 %	4.1	
						PULL UP RODS 5'
	42				1.4	SET DEEP WELL SCREEN 34'-44' BGS
				%	0.0	
	43			2/2	0.0	SET SHALLOW WELL SCREEN 15'-25' BGS
	44			%	0.0	
				%		
				%		
				%		
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: LHAAP OLD6.46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-021

8. NAME OF DRILLER: ~~DPT-021~~ KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/04/2020 b. COMPLETED 06/04/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: John Moore

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SILTY CLAY W/ SAND, LT. BROWN, STIFF, PLASTIC, MOIST	2/4 %	0.0	
		2				
		3	SILTY CLAY, LT. BROWN, MED, PLASTIC, SOFT, WET		0.0	
		4		%	0.0	
		5		%	0.0	
		6	SILTY CLAY W/ TRACE SAND, STIFF, PLASTIC, MOIST TO DRY, LT. BROWN TO GREY	3.5/4 %	0.0	SAMPLE DPT-021 (6-7) 1415
		7				
		8		%	0.0	
		9		%		

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-021

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		10		4/4 %	0.0	SAMPLE DPT-021 (10-11) 1430
		11			0.0	
		12			0.0	
		13		1.5/2 %	0.1	
		14			0.0	
		15		2/2 %	0.3	
		16			0.1	
		17	SILTY SAND, GREY, LOOSE, FINE GRAIN, DRY	4/4 %	0.0	
		18				
		19	SILTY CLAY, SAND LENSE @ 19.5, LT. BROWN TO GREY, SOFT, MOIST		0.5	SAMPLE DPT-021 (19-20) 1450
		20			0.1	
		21		2/2 %		
		22	SILTY SAND, SOME CLAY LENSES, LT. BROWN, GREY & ORANGE, SOFT, DRY		2.1	
		23	SILTY CLAY, LT. BROWN, STIFF, DRY TO MOIST, PLASTIC	2/2 %	1.0	SAMPLE DPT-021 (23-24) 1455
		24			5.1	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE	2. HOLE NUMBER	SHEET 3 OF 3 SHEETS
	DPT-021	

3. PROJECT	4. INSTALLATION
	LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		25		2/2 %	12.3	
					13.5	
		26			20.8	
			SAND W/ CLAY ZONES, LT. BROWN TO ORANGE SOFT, FINE, WET	2/2 %	3.3	
		27			25.1	
					16.6	
		28		2/2 %	8.9	
					11.1	
		29			1.7	
		30		2/2 %	2.2	
					2.1	
		31			0.7	
		32	CLAY, LT. BROWN TO ORANGE, STIFF, PLASTIC, SLIGHTLY MOIST	2/2 %	2.9	
					0.0	
		33			1.2	PULL RODS UP 10', DEEP WELL SCREEN SET 26'-36' BGS, SHALLOW WELL SCREEN 14-24' BGS
		34		2/2 %	0.0	
					0.0	
		35			0.0	
		36		%		
				%		
				%		

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6. PROJECT	7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: LHAAP BLDG. 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-022

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 36' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/05/2020 b. COMPLETED 06/05/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: [signature]

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	CLAYEY SAND, LT. BROWN, SOFT, MED. PLASTIC, WET	1.5 %	0.0	
		2	CLAY W/ SILT, LT. BROWN TO GREY, STIFF, PLASTIC, MOIST, SAND LEASE ~5.5' BGS	4 %	0.0	
		3		%	0.0	
		4				
		5		%	0.0	SAMPLE DPT-022(5-6) 0950
		6		4/4 %	0.0	
		7				
		8		%	0.0	SAMPLE DPT-022(8-9) 1005
		9		%	0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-022

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	10			4/4 %	0.0	
	11			%	1.7	
	12			%	0.0	
	13		SILT W/ CLAY & FINE GRAINED	4/4 %	4.4	SAMPLE DPT-022(14-15) 1000
	14		SAND, STIFF, MED. PLASTIC, DRY TO MOIST			
	15			%		
	16				1.9	
	17		CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, DRY TO MOIST	2/2 %	2.1	
	18				0.0	
	19			2/2 %	0.0	
	20		SILTY CLAY W/ TRACE SAND, LT. BROWN TO GREY, MED. STIFF, PLASTIC, DRY TO MOIST		0.4	SAMPLE DPT-022(20-21) 1030
	21		SILTY CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, DRY TO MOIST	2/2 %	0.0	
	22				3.2	
	23		SILTY CLAY, ~~TRACE~~ SAND, MED. STIFF, PLASTIC, DRY TO MOIST	2/2 %	0.2	
	24				2.4	
				%	3.3	
					1.7	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-022

SHEET 3 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		25		2/2 %	0.0	
					0.7	
		26			7.8	
				%	0.0	
		27		2/2 %	1.1	
		28	SAND, BROWN, LOOSE, FINE GRAIN, WET		5.6	
					19.3	
		29		2/2 %	12.0	
		30			83.4	
				%	73.0	
		31		2/2 %	88.6	
		32			224.6	PULL UP RODS 8', SET DEEP WELL SCREEN 26'-36' BGS
					589.6	
		33		2/2 %	202.4	
		34			295.2	SET SHALLOW WELL SCREEN 8'-18' BGS
				%		
		35		2/2 %		
		36		%		
		37		%		
		38		%		
		39		%		

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6. PROJECT

7. HOLE NUMBER

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: LHAAP BLDG. 46A

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-023

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: ☒ a. VERTICAL ☐ b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 42' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/07/2020; b. COMPLETED 06/08/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: Jacob Moore

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SANDY SILT W/ CLAY, STIFF, LOW PLAST., DRY, LT. BROWN TO DARK BROWN	% 3/4	4.4	
		2		%	3.8	SAMPLE DPT-023(2-3) 1230
		3				
		4		%	0.0	SAMPLE DPT-023(4-5) 1330
		5	CLAY, DARK BROWN TO RED, STIFF, PLASTIC, DRY TO MOIST	%	0.0	
		6		4/4 %	0.0	
		7	SANDY SILT, LOOSE, FINE, DRY, LT. BROWN, SOME DRY, STIFF CLAY			SAMPLE DPT-023(7-8) 1350
		8		%	0.0	
		9		%	0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-023

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	10			4/4 %	0.0	
	11			%	0.0	
	12		CLAY, STIFF, MED. PLASTIC, DRY, LT. BROWN TO GREY			
	13		NO RECOVERY 12'-14' (SAMPLER STUCK IN CORE BARREL)	0/2 %		
	14			%		
	15		SILTY SAND, LT. BROWN TO GREY, FINE, DRY, LOOSE	1/1	0.0	
	16			1/1 %	0.0	
	17			1/1 %	0.0	
	18			2/2 %	0.0 0.0 0.0	
	19					
	20			2/2 %	0.0 0.0 0.0	
	21			%		
	22		SAND W/ CLAY, MED. STIFF, MED. PLASTIC, MOIST	3/3 %	0.7 3.2 6.1	
	23					
	24			%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-023

SHEET 3 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		25			3.4	
				2/2 %	4.7	
		26			3.3	
				%	3.6	
		27		2/2 %	3.5	
					2.5	
		28	CLAY, LT. BROWN, MED. STIFF, PLASTIC, MOIST		1.4	
		29		2/2 %	1.4	
		30			0.2	
				%	1.3	
		31		2/2 %	0.8	
					2.7	
		32			4.8	
		33		2/2 %	2.0	
					1.8	
		34			1.5	
		35		2/2 %	5.2	
					2.9	
		36		%	1.5	
		37	SAND, LT. BROWN TO ORANGE, FINE, WET	1.5/2 %	19.0	
		38			23.9	
					22.0	
		39		2/2 %	6.3	

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6. PROJECT

7. HOLE NUMBER

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-023

SHEET 4 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		40		%	6.9	PULL RODS UP 5', SET DEEP WELL SCREEN @ 32'-42' BGS, SHALLOW WELL 19'-29' BGS, AFTER CONVERSATION W/ CORP. DECIDE TO SET SHALLOW WELL @ 23'-33' BGS
					0.9	
		41		2/2 %	0.0	
					0.0	
		42		%		
				%		
				%		
				%		
				%		
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION *(Coordinates or Station)*: —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER *(as shown on drawing title and title number)*: DPT-024

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 44' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN *(TBM or MSL)*: —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE *(YYYYMMDD)*: a. STARTED 06/08/2020; b. COMPLETED 06/08/2020

20. ELEVATION TOP OF HOLE *(feet)*: —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: Josh Moore

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		1	SILTY CLAY W/ SAND, LT. BROWN, MED. STIFF, PLASTIC, MOIST	% 2 1/4 %	6.1	PID MAY BE INACCURATE DUE TO HUMIDITY
		2			5.1	
		3		%	2.6	
		4				
		5			0.7	
		6	CLAY, RED TO LT. BROWN, STIFF, PLASTIC, DRY TO MOIST	% 2 1/4 %	0.2	
		7			0.3	
		8		%		
		9		2 1/2 %	0.0	
					0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-024

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	10		SILTY SAND W/ SOME CLAY, SLIGHTLY COHESIVE, FINE, DRY, LOOSE, LT. BROWN TO GREY	%	0.1	SAMPLE DPT-024(9-10) 1145
					0.8	
	11			2/2 %	2.9	
					0.2	
	12			%	0.0	
	13					SAMPLE DPT-024(13-14) 1200
	14			4/4 %	0.0	
	15			%		
	16				0.0	
	17			%	0.0	SAMPLE DPT-024(17-18) 1205
	18			4/4 %	0.0	
	19			%	0.0	
	20					
	21		SILTY SAND W/ CLAY STIFF, MED. PLASTIC, BROWN TO GREY, DRY TO MOIST	%	0.0	SAMPLE DPT-024(21-22) 1210
	22			4/4 %	0.0	
	23					
	24			%	0.0	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)* For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.	1. ELEVATION TOP OF HOLE	2. HOLE NUMBER DPT-024	SHEET 3 OF 4 SHEETS
3. PROJECT		4. INSTALLATION LHAAD	

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		25		%	0.0	
		26		4/4 %	0.0	
		27		%	0.0	
		28			0.0	
		29		% 4/4	0.0	
		30		%		
		31	CLAY, BROWN TO RED, STIFF, PLASTIC, DRY TO MOIST		0.0	
		32		%		
		33		2/2 %	0.0	
		34	SANDY CLAY, LT. BROWN, MED. STIFF, PLASTIC, MOIST		0.0	
		35		% 2/2	0.0	
		36			0.0	
		37		2/2 %	0.0	
		38			0.0	
		39	SAND W/ SOME CLAY, MOTTLED LT. BROWN, GREY & ORANGE, LOOSE, FINE, WET	2/2 %	0.0	

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6. PROJECT

7. HOLE NUMBER

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-024

SHEET 4 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR ~~SAMPLE~~ NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		40		%	0.0	
					0.0	
		41		2/2 %	0.0	PULL RODS UP 6'
					0.0	DEEP WELL SCREEN 34'-44' BGS, SHALLOW SCREEN 23'-33' BGS
		42			0.0	
				2/2 %	0.0	
		43			0.0	
		44		%		
				%		
				%		
				%		
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION *(Coordinates or Station)*: —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER *(as shown on drawing title and title number)*: DPT-025

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 36' 1"

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN *(TBM or MSL)*: —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE *(YYYYMMDD)*: a. STARTED 06/09/20 b. COMPLETED 06/09/20

20. ELEVATION TOP OF HOLE *(feet)*: —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: John Mann

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		1	SANDY CLAY, MED. STIFF, MED. PLASTIC, MOIST TO WET, LT. BROWN TO DARK BROWN	% 2/4	0.0	
		2		%	0.0	
		3		%	0.0	
		4	CLAY, LT. BROWN TO ORANGE, STIFF, PLASTIC, DRY TO MOIST, SAND LEASE @ 6.5', SILTY THROUGHOUT	% 3.75/4	0.0	
		5			0.0	
		6			0.0	SAMPLE DPT-025(6-7) 1155
		7				
		8		%	0.0	
		9			0.0	
				%	0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-025

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	10					
	11		SAND LENSE @ 11.5'	3/4 %	0.0	SAMPLE DPT-025(11-12) 1200
	12					
	13		CLAY/SILT, STIFF, LOW PLAST., DRY, LT. BROWN	2/2 %	0.0	
	14				0.0	
	15			2/2 %	0.5	
	16				0.9	
			SAND, LT. BROWN, V. FINE, DRY		0.0	
	17			2/2 %	15.3	
			CLAY/SILT, STIFF, LOW PLAST, DRY, LT. BROWN		0.4	SAMPLE DPT-025(17-18) 1205
	18				21.2	
			SAND, LT. BROWN, V. FINE, DRY	2/2 %	0.0	
	19				0.0	
	20				0.0	
			NO RECOVERY (SAMPLER STUCK IN CORE BARREL)	0/2 %	—	
	21				—	
	22					
			CLAY, STIFF, LT. BROWN TO DARK BROWN, PLASTIC, MOIST	2/2 %	1.8	SAMPLE DPT-025(22-23) 1250
	23				0.0	
	24				13.4	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-025

SHEET 3 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
			SAND W/ TRACE SILT & CLAY, LT. BROWN, FINE TO MED, WET, LOOSE	1/1 %	67.5	
	25			1/1 %	50.7	
	26				111.4	
	27			2/2 %	134.3	
					231.5	
	28				81.2	
	29		SANDY CLAY, LT. BROWN, MED. STIFF, LOW PLAST, WET	2/2 %	0.0	
					0.0	
	30				0.0	
	31		SAND W/ SOME CLAY, LOOSE, MOIST, LT. BROWN, FINE, MOIST TO WET	2/2 %	0.0	
					0.0	
	32		CLAY W/ TRACE SAND & SILT, LT. BROWN, MED. PLAS, STIFF, DRY TO MOIST		0.0	
	33		SAND LENSE @ ~33' BGS	2/2 %	0.0	
					0.0	
	34		SILTY CLAY W/ SAND, DARK BROWN TO DARK GREY, STIFF, SLIGHTLY PLASTIC, DRY TO MOIST	2/2 %	0.0	
	35				0.0	
					0.0	HIT REFUSAL @ 36' 1", PULL RODS & SET WELL SCREEN 26'-36' BGS
	36			%		
	37			%		
	38			%		
	39			%		

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6. PROJECT

7. HOLE NUMBER

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: LHAAP BLDG. 46A

5. LOCATION *(Coordinates or Station)*

6. DRILLING AGENCY: WHE

7. HOLE NUMBER *(as shown on drawing title and title number)*: DPT-026

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: ☑ a. VERTICAL ☐ b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: ~45' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN *(TBM or MSL)*: —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822 DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE *(YYYYMMDD)*: a. STARTED 06/07/2020; b. COMPLETED 06/07/2020

20. ELEVATION TOP OF HOLE *(feet)*: —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: John Flores

23. a. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		1	SANDY CLAY W/ SILT, SOFT, PLASTIC, WET, LT. BROWN	%	0.0	
		2		2/4 %	0.0	
		3				SAMPLE DPT-026(3-4) 0735
		4		%	0.0	
		5	CLAY, LT. BROWN TO RED, STIFF, PLASTIC, DRY TO MOIST, TRACE SAND THROUGHOUT	%	0.0	
		6		2/4 %	0.0	
		7				
		8		%	0.0	
		9		%	0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-026

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		10		%	0.0	
				3.75 / 4 %	0.0	
		11				
		12				
				%	0.0	
		13				
		14		4 / 4 %	0.0	
		15		%	0.0	
		16				SAMPLE DPT-026(16-17) 0750
		17		2 / 2 %	2.1 0.6	
					2.4	SAMPLE DPT-026(17-18) 0755
		18		%	2.2	
		19		2 / 2 %	0.0	
		20		%	0.0	
					0.0	
		21		2 / 2 %	0.0	
		22			0.0	
				%	0.0	
		23		2 / 2 %	0.5	
		24			0.0	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-026

SHEET 3 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		25		2 / 2 %	1.9	
					2.4	
		26		%	0.0	
				2 / 2 %	0.0	SAMPLE DPT-026(26-28) 0800
		27	SAND LENSE @ 28'		2.8	
		28			0.0	
			CLAY W/ SILT AND TRACE SAND, MED. STIFF, PLASTIC, MOIST TO WET	2 / 2 %	4.8	
		29			0.6	
		30			1.0	
				%	1.0	
		31		2 / 2	0.0	
				%	14.0	
		32			13.5	
				2 / 2 %	53.4	
		33			2.2	
		34	SAND W/ SOME CLAY, LT. BROWN, LOOSE, MOIST TO WET, FINE	%	30.2	
		35	CLAY, LT. BROWN, STIFF, PLASTIC, MOIST	2 / 2	07.3	
				%	43.8	
		36			30.2	
				2 / 2 %	5.3	
		37			19.1	
		38				
			SAND, LT. BROWN, TO DARK BROWN, LOOSE, FINE, WET	%	35.9	
		39				

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6. PROJECT

7. HOLE NUMBER

DRILLING LOG (Continuation Sheet) For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.	1. ELEVATION TOP OF HOLE	2. HOLE NUMBER DPT-026	SHEET 4 OF 4 SHEETS
3. PROJECT		4. INSTALLATION LHAAP	

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		40	SAND, LT. BROWN TO DARK BROWN, LOOSE, FINE, WET	2/2 %	26.1	
					49.3	
		41			19.0	
				2/2 %	32.6	
		42			0.0	
				%	5.9	
		43		2/2	124.7	PULL RODS UP 7'
					100.7	SET DPT-026 (Deep), SCREEN ~35'-45' BGS,
		44		1/1	60.1	SHALLOW SCREEN SET ~26'-36' BGS
		45		%		
		46		%		
		47		%		
		48		%		
		49		%		
		50		%		
		51		%		
		52		%		
		53		%		
		54				

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6. PROJECT

7. HOLE NUMBER

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: LHAAP BLDG. 46A

5. LOCATION *(Coordinates or Station)*: —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER *(as shown on drawing title and title number)*: DPT-027

8. NAME OF DRILLER: Kerri Powell

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 32.5' BGS / 33' BGS

13. SIZE AND TYPE OF BIT: 3.25" Core Barrel

14. DATUM FOR ELEVATION SHOWN *(TBM or MSL)*: —

15. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE *(YYYYMMDD)*: a. STARTED 06/05/2020; b. COMPLETED 06/05/2020, 06/12,

20. ELEVATION TOP OF HOLE *(feet)*: —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: John Moore

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		1	SILTY CLAY, MOTTLED GREY/REDDISH BRWN. SOFT, PLASTIC, WET	4/4 %	0.0	
		2			0.0	SAMPLE DPT-027(2-3) 1350
		3			0.0	
		4	CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, MOIST		0.0	
		5		4/4 %		
		6			0.0	SAMPLE DPT-027(5-6) 1400
		7				
		8			0.0	
		9	SILTY CLAY, GREY, STIFF, PLASTIC, DRY		0.0	SAMPLE DPT-027(8-9) 1320

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-027

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		10		% 4/4	0.0	
		11	SAND w/ SILT, LT. BROWN, LOOSE, DRY, FINE GRAIN, CLAYEY ZONE ~12.0' BGS	%	0.0	SAMPLE DPT-027(11-12) 1325
		12		%	0.0	
		13		4/4		
		14		%	0.0	
		15		%	0.0	
		16				
		17	NO RECOVERY (SAMPLER STUCK IN CORE BARREL)	% 0/4	—	
		18		%	—	
		19		%	—	
		20				
		21	SILTY CLAY w/ SAND LENSES THROUGHOUT, LT. BROWN, MED. STIFF, MOIST, PLASTIC	2/2 %	2.5 49.2	
		22	CLAYEY SAND, LT. BRWN., LOOSE, DRY TO MOIST, FINE.	% 2/2	15.6 6.2	
		23			23.5	
		24		%	83.4	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-027

SHEET 3 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		25		2/2 %	19.8 33.4 2.9	
		26			4.3	
		27	CLAY, DARK BRWN, STIFF, DRY TO MOIST, PLASTIC	2/2 %	0.0 0.0	
		28			0.0	
		29	SILTY CLAY, DARK BRWN., MED. STIFF, PLASTIC, DRY TO MOIST	2/2 %	0.0 0.0	
		30			6.0	
		31	SANDY/SILTY CLAY, DARK BROWN, MED. STIFF, MED. PLASTIC, DRY TO MOIST	2/2 %	0.0	
		32	CLAY, DARK BROWN, STIFF, PLASTIC, MOIST		0.0 0.0	STOP DRILLING @ 32.5' BGS, HIT REFUSAL, SET SHALLOW WELL SCREEN 17'-27' BGS 06/17/20: RETURN TO DPT-027 TO SET NEW WELL, HIT REFUSAL @ 33' BGS. SET WELL SCREEN 28'-33' BGS.
		33		%		
			TOP 4' OF NEW BORING (DIFFERENT INTERVALS B/C ELEVATION CHANGE)	%		
		1	SILTY CLAY W/ SAND, DARK BROWN, SOFT, PLASTIC, MOIST	1.5/4 %	0.0	PID HITS: 23'-5.1 24.5-4.5 25'-3.9 26'-66.9 27'-3.5 28'-13.6 29'-2.4 30'-7.9 (MAY BE INACCURATE B/C HUMIDITY) ~4' ELEVATION DIFFERENCE BETWEEN NEW & ORIGINAL BORING
		2		%		
		3		%		
		4		%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-028

8. NAME OF DRILLER: MARCUS BURKHALTER

9. DIRECTION OF HOLE: ☒ a. VERTICAL ☐ b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 45' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/10/20 b. COMPLETED 06/10/20

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: Jacob Moomaw

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	CLAY W/ TRACE SAND, MED. STIFF, PLASTIC, WET, LT. BROWN TO DARK BROWN	% 2 / 4	2.1	PID MAY BE INACCURATE DUE TO HUMIDITY
		2		%	2.2	
		3		%	2.6	
		4		% 2.5 / 4	3.0	
		5		%	5.8	
		6		%	6.1	
		7		%	5.5	
		8				
		9	SILTY CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, DRY			

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-028

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		10		4/4 %	6.0	SAMPLE DPT-028(10-11) 740
		11			15.0	
		12	CLAY W/ SAND & SILT, STIFF, MED. PLASTIC, DRY, LT. BROWN TO GREY		28.8	
		13		4/4 %		SAMPLE DPT-028(13-14) 0745
		14			19.2	
		15		%	14.8	
		16			16.2	SAMPLE DPT-028(16-17) 0750
		17	SAND LENSE @ 17' BGS	2/2 %	9.1	
		18			12.8	
		19	SAND LENSE @ 18.5' BGS	2/2 %	24.1	
		20			31.3	
		21			41.9	
		22		2/2 %	14.4	SAMPLE DPT-028(21-22) 0800
		23	CLAY W/ SILT, SAND LENSES THROUGHOUT, SOFT, LOW PLAST., WET, LT. BROWN TO GREY		35.6	
		24			40.2	
				2/2 %	45.8	
					51.2	
					23.5	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG (Continuation Sheet) For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.	1. ELEVATION TOP OF HOLE	2. HOLE NUMBER DPT-028	SHEET 3 OF 4 SHEETS
3. PROJECT		4. INSTALLATION LHAAP	

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		25	SILTY SAND, LT. BROWN TO GREY, FINE, COHESIVE, WET	2 1/2 %	28.9	
					35.4	
		26			28.0	
				%	36.8	
		27		2 1/2 %	4.3	
		28	CLAY W/ SILT & TRACE SAND, LT. BROWN TO GREY, PLASTIC, MED. STIFF, MOIST TO WET		12.1	
					3.5	
		29		%		
				3 3/3	7.1	
		30	SANDY/SILTY LENSE @ 30' BGS	%		
		31			4.5	
			CLAY, LT. BROWN TO GREY. STIFF, PLASTIC, DRY TO MOIST	2 1/2 %	0.1	
		32			0.3	
					0.2	
		33		%		
				3 3/3	0.0	
		34			0.0	
				%	0.0	
		35				
					0.0	
		36		%	0.0	
					0.0	
		37		2 1/2 %	0.0	
					0.0	
		38			0.0	
				2 1/2 %	0.0	
		39				

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-028

SHEET 4 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		40		%	0.1	
					2.2	
		41	SAND, LT. BROWN TO GREY, FINE GRAIN, WET	2/2 %	5.9	
					2.0	
		42		%	2.2	
		43		2/2	2.7	HIT REFUSAL @ ~45' BGS
					2.5	PULL RODS UP 4',
		44		%	0.0	SET DEEP WELL 35'-45' BGS,
				1/1	0.0	SHALLOW WELL 23'-33' BGS
		45		%		
		46		%		
				%		
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-029

8. NAME OF DRILLER: MARCUS BURKHALTER

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 45' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/11/2020 b. COMPLETED 06/11/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: Jake Moore

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	0–4	1	CLAYEY SAND W/ SILT, LT. BROWN, FINE TO COARSE, LOOSE, DRY	%	12.7	PID MAY BE INACCURATE DUE TO HUMIDITY
		2		3 1/4 %	3.1	
		3				
		4		%	2.2	
	4–5	5	SILTY CLAY, DARK BROWN TO LT. BROWN, STIFF, PLASTIC, DRY	2 1/2 %	1.9	
					2.6	
	5–6	6	SILTY SAND W/ TRACE CLAY, LT. BROWN, LOOSE, DRY, FINE GRAIN		1.8	
				%	7.0	
		7		2 1/2	9.3	SAMPLE DPT-029(7-8) 0755
		8		%	1.7	
	8–9	9	SILTY CLAY SAND LENSES THROUGHOUT, STIFF, MED. PLASTIC, DRY, LT. BROWN TO GREY		2.0	
				%	0.6	

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-029

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	10			4/4 %	1.2 %	
	11					
	12				% 0.0	
	13		SILTY SAND W/ TRACE CLAY, LT. BROWN TO GREY, LOOSE, FINE, DRY	4/4 %	1.1	SAMPLE DPT-029(13-14) 0810
	14					
	15				% 0.0	
	16				% 0.8	
	17			4/4 %	1.1	SAMPLE DPT-029(17-18) 0815
	18					
	19				% 1.2	
	20					
	21				% 7.3	
	22			4/4 %	8.5	SAMPLE DPT-029(21-22) 0820
	23		SILTY CLAY, LT. BROWN, MED. STIFF, PLASTIC, MOIST		% 7.9	
	24					

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-029

SHEET 3 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		25		%	2.1	
		26		4/4 %	3.1	
		27		%	3.1	
		28				
		29		%	9.4	
		30		4/4 %	11.7	
		31		%	23.2	
		32	SLIGHTLY MOIST @ 32' BGS			
		33		%	7.5	
		34	CLAY W/ TRACE SAND, LT. BROWN, SOFT, PLASTIC, MOIST	4/4 %	13.1	
		35				
		36		%	16.4	
		37	SAND W/ SILT & TRACE CLAY, ORANGE TO GREY, FINE, WET	3.5/4 %	69.2	
		38				
		39		%	30.4	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-029

SHEET 4 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		40		%	33.2	
			SAND, DARK BROWN, FINE TO MED. GRAIN, LOOSE, WET		21.8	
		41		%		
				2.5 / 4		
		42		%	34.3	
		43			109.4	
		44		%	56.2	HIT REFUSAL @ 45' BGS
				1/1	133.2	PULL RODS UP 7'
		45		%		DEEP WELL SCREEN 35'-45' BGS
		46				SHALLOW WELL SCREEN 24'-34' BGS
				%		
		47				
		48		%		
		49		%		
		50		%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-030

8. NAME OF DRILLER: MARCUS BURKHALTER

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 28.25'

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/11/2020; b. COMPLETED 06/11/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: Jacob Moorman

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SILTY CLAY W/ SAND, SOFT, MED. PLASTIC, LT. BROWN, DRY TO MOIST	%	1.8	
		2		1.5/4 %	1.6	
		3				
		4		%	2.1	
			SILTY CLAY, LT. BROWN, MED. STIFF, PLASTIC, DRY TO MOIST, SAND LENSES THROUGHOUT.			
		5		%	12.0	
		6		2/4 %	53.7	
		7				
		8		%	36.8	
		9		%	29.6	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-030

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		10		3/4	% 256.2	DPT-030(10-11) 1345
		11			% 177.3	
		12			% 139.2	
		13				
		14	SILTY SAND, LT. BROWN TO GREY, LOOSE, FINE TO MED. GRAIN, DRY TO MOIST	4/4	% 448.8	
		15			% 585.4	SAMPLE DPT-030(15-16) 1355
		16				
		17			% 396.1	SAMLE DPT-030(17-18) 1405
		18		4/4	% 315.5	
		19			% 310.6	SAMPLE DPT-030(19-20) 1410
		20	CHANGES TO WET @ 20'			
		21	SILTY CLAY W/SAND, LT. BROWN TO GREY, STIFF, PLASTIC, DRY TO MOIST	4/4	% 386.6	
		22			% 68.5	
		23			% 73.8	
		24			%	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-030

SHEET 3 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	25			%	98.7	
	26			4/4 %	146.6	
	27		SILTY SAND W/ TRACE CLAY, LT. BROWN TO GREY, LOOSE, MOIST, FINE			HIT REFUSAL @ 28.25", SET WELL 18.25'-28.25'
	28			%	67.5	
	29			%		
	30			%		
	31			%		
	32			%		
	33			%		
	34			%		
	35			%		
	36			%		
	37			%		
	38			%		
	39			%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-031

8. NAME OF DRILLER: MARCUS BURKHALTER

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 33' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/12/2020; b. COMPLETED 06/12/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: Jacob Moore

23. a. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	1		SILTY CLAY W/ SAND, LT. BROWN TO DARK BROWN, LOOSE, MED. PLASTIC, MOIST	% 48.2		
	2			1.5/4 % 8.3		
	3					SAMPLE DPT-031(3-4) 1055
	4			% 31.1		
	5			% 0.9		
	6			2.5/4 % 3.2		
	7		SANDY SILT, LT. BROWN TO GREY, LOOSE, FINE, DRY			
	8			% 12.6		
	9			% 1.8		

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-031

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		10	SILTY CLAY W/SAND LENSES THROUGHOUT, LT. BROWN TO GREY, STIFF, PLASTIC, DRY TO MOIST	4/4 %	3.7	
		11		%	4.9	
		12		%	7.5	SAMPLE DPT-031 (12-13) 1050
		13	SAND LENSE ~13' BGS & ~14' BGS	4/4 %	2.0	
		14				
		15		%	5.0	
		16	SAND LENSE ~16' BGS	%	14.4	SAMPLE DPT-031 (16-17) 1100
		17		4/4 %	10.2	
		18	SAND LENSE ~18.5' BGS			
		19		%	26.5	
		20			8.7	
		21		2/2 %	38.4	SAMPLE DPT-031 (21-22) 1210
		22			21.2	
		23		%	11.7	
		24		2/2 %	67.7	
				%	21.1	
					65.9	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-031

SHEET 3 OF 3 SHEETS

PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		25		2/2 %	85.4	
		26	SILTY SAND W/ CLAY, LT. BROWN TO GREY, COHESIVE, WET, FINE TO MED. GRAIN	%	126.7	
		27		1.5/2 %	114.3	
					79.7	
		28			63.2	
					94.2	
		29		2/2 %	255.8	
					146.4	
		30				
				%	35.2	
		31		2/2	9.0	
				%	8.5	
		32	CLAY W/ SAND, LT. BROWN, STIFF, PLASTIC, MOIST	1/1	4.0	SET WELL SCREEN 23'-33' BGS
					0.0	
		33		%		
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION (Coordinates or Station)

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-032

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN

11. DEPTH DRILLED INTO ROCK

12. TOTAL DEPTH OF HOLE: 49.5'

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL)

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED b. UNDISTURBED

17. TOTAL NUMBER CORE BOXES

18. ELEVATION GROUND WATER

19. DATE HOLE (YYYYMMDD): a. STARTED 06/13/2020 b. COMPLETED 06/13/2020

20. ELEVATION TOP OF HOLE (feet)

21. TOTAL CORE RECOVERY FOR BORING %

22. SIGNATURE OF INSPECTOR

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SILTY CLAY W/ SAND, LT. BROWN TO DARK BROWN, MED. STIFF, PLASTIC, MOIST	%	11.9	PID MAY BE INACCURATE DUE TO HUMIDITY
		2		2/4 %	15.8	
		3				
		4		%	9.3	
		5		%	6.1	
		6		4/4 %	22.8	
		7		%	24.0	
		8		%		
		9	SILTY SAND W/ TRACE CLAY, LT. BROWN, LOOSE, FINE GRAIN, DRY	%	6.5	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-032

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX ~~OR~~ SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	10			4/4	% 15.9	
	11				% 27.8	
	12				% 14.8	SAMPLE DPT-032(12-13) 0915
	13			4/4		
	14				% 28.5	
	15				% 825	SAMPLE DPT-032(15-16) 0920
	16			2/2	3.7	
	17				% 3.4	
	18				6.8	
	19			2/2	% 3.1	
	20		SILTY CLAY W/ TRACE SAND, LT. BROWN TO GREY, STIFF, PLASTIC, MOIST		4.4	SAMPLE DPT-032(19-20) 0925
	21			2/2	% 10.6	
	22				2.1	
	23				% 3.7	
	24		SAND W/ TRACE CLAY, LT. BROWN TO GREY, LOOSE, FINE GRAIN, WET	2/2	21.2	SAMPLE DPT-032(21-22) 0930
					2.1	
					% 4.7	
					8.1	
					%	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-032

SHEET 3 OF 4 SHEETS

PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID / BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	25			2/2 %	2.1 2.9 17.0	
	26			2/2 %	2.7 2.6 2.1	
	27					
	28			2/2 %	2.2 0.0 3.8	
	29					
	30			2/2 %	0.0 0.0 0.2	
	31					
	32		CLAY W/ SILT & SAND, LT. BROWN TO GREY, STIFF, PLASTIC, MOIST TO WET	2/2 %	0.0 0.0 2.4	
	33					
	34			2/2 %	0.0 0.7 2.2	
	35					
	36			2/2 %	0.0 1.1 2.2	
	37					
	38			%	0.0 0.0	
	39					

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-032

SHEET 4 OF 4 SHEETS

PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		40	SAND, LT. BROWN TO GREY, LOOSE, FINE TO MED. GRAIN, WET	%	2.2	
				2/2 %	0.0	
		41			0.0	
					0.0	
		42		%	0.0	
				2/2	0.0	
		43			0.0	
				%	0.0	
		44			0.0	
				2/2 %	0.0	
		45			0.0	
					0.0	
		46			0.0	
				%	0.7	
		47		2/2	0.0	
		48		1.5 %	0.0	PULL RODS UP 10'
				1.5	0.0	SET DEEP WELL 39.5'-49.5'
		49				SET SHALLOW WELL 25'-35'
				%	0.0	
		50		%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-033

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: ☒ a. VERTICAL ☐ b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 49' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED ~ b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/13/2020 b. COMPLETED 06/13/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: JW Moore

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SILTY CLAY W/ SAND, DARK BROWN TO LT. BROWN, MED. STIFF, PLASTIC, DRY TO MOIST	2.5/4 = %	15.4	
		2			61.5	
		3			0.5	
		4			2.6	
		5		3.5/4 = %	10.1	
		6				
		7			22.0	
		8	SILTY SAND, LT. BROWN TO GREY, LOOSE, FINE, DRY	4/4 = %	35.5	SAMPLE DPT-033(8-9) 1220
		9			0.7	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-033

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		10		%	0.0	
		11		%		
		12	SANDY CLAY, LT. BROWN TO GREY, STIFF, MED. PLASTIC, DRY TO MOIST	%	6.4	SAMPLE DPT-033(12-13) 1230
		13		4/4		
		14		%	5.1	
		15		%	2.7	
		16	SILTY SAND W/ CLAY, LT. BROWN TO GREY, LOOSE, FINE, DRY		6.2	
		17		2/2	% 33.5	
					42.7	
		18		%	69.1	SAMPLE DPT-033(19-20) 1235
		19		2/2	127.2	
				%	61.7	SAND LEASE @ ~20' BGS
		20	CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, MOIST		33.3	
		21		2/2	% 49.0	
					66.1	SAMPLE DPT-033(22-23) 1240
		22		%	53.9	
		23		2/2	23.0	
					29.8	
		24		%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-033

SHEET 3 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		25	CLAYEY SAND, LT. BROWN TO GREY, FINE, LOOSE, WET, COHESIVE	2 1/2 %	40.1	
					44.4	
					16.9	
		26		2 1/2 %	3.4	
					0.2	
		27			0.0	
		28	CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, MOIST, TRACE SAND	2 1/2 %	0.0	
					0.0	
		29			0.0	
		30		2 1/2 %	0.2	
					0.0	
		31			2.1	
				2 1/2 %	5.3	
		32			10.0	
		33		2 1/2 %	7.5	
					5.2	
		34			0.9	
		35		2 1/2 %	0.3	
					0.0	
		36			0.1	
		37		2 1/2 %	0.2	
		38				
		39				

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-033

SHEET 4 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		40	CLAYEY SAND, LT. BROWN TO GREY, COHESIVE, FINE, LOOSE, WET	%	2.5 10.2	
		41		2 1/2 %	10.6 7.1 15.8	
		42		2 1/2 %	0.3	
		43			15.5	
		44		%	8.5 5.2	PULL RODS UP 8.5' SET DEEP WELL 39'-49' BGS, SET SHALLOW WELL 23'-33' BGS
		45		2 1/2 %	0.0 2.4	
		46			4.2	
		47	SAND, LT. BROWN TO GREY, FINE TO MED, LOOSE, WET	2 1/2 %	2.0 6.9	
		48		%	2.1	
		49		1/1	1.2	
		50		%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION *(Coordinates or Station)*: —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER *(as shown on drawing title and title number)*: DPT-034

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 33' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN *(TBM or MSL)*: —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED —; b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE *(YYYYMMDD)*: a. STARTED 06/14/20; b. COMPLETED 06/14/20

20. ELEVATION TOP OF HOLE *(feet)*: —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: JL Moore

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		1	SANDY CLAY W/ SILT, LT. BROWN, SOFT, MED. PLASTIC, WET	%	0.0	PID MAY BE INACCURATE DUE TO HUMIDITY
		2		2/4 %	0.0	
		3		%	1.4	
		4	CLAY W/ SAND LENSES THROUGHOUT, LT. BROWN TO GREY, STIFF, PLASTIC, DRY		0.0	
		5		%		
		6		3/4 %	0.0	
		7			0.0	
		8		%	2.7	SAMPLE DPT-034(8-9) 0805
		9	SAND LENSE @ 9.5' BGS	%	0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-034

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		10		4/4 %	0.0	
		11		%	0.0	
			SAND LENSE @ 12' BGS		0.0	
		12	SILTY SAND W/ CLAY, LT. BROWN TO GREY,	2/2 %	0.0	
		13	LOOSE, FINE GRAIN, DRY		0.0	
		14		%	0.0	
				2/2	0.0	SAMPLE DPT-034(15-16) 0810
		15		%	0.0	
		16			0.0	
				2/2 %	0.0	
		17			0.0	
		18		%	0.0	SAMPLE DPT-034(18-19) 0815
				2/2	0.0	
		19		%	0.0	
			CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, DRY TO MOIST		0.0	
		20				
		21		2/2 %	0.0	
					0.0	
		22		%	0.0	SAMPLE DPT-034(22-23) 0820
		23		2/2	0.0	
				%	0.0	
		24				

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-034

SHEET 3 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	25			2/2 %	0.0	
					0.0	
					0.0	
	26			%	0.0	
	27		SAND W/CLAY, LT. BROWN TO GREY, COHESIVE, FINE, MOIST TO WET	2/2	0.0	
				%	0.0	
	28				0.0	
	29			2/2 %	0.0	
					0.0	
	30			%	0.0	
	31			2/2	0.0	
				%	0.0	
	32				0.0	SET WELL SCREEN 23'-33' BGS
	33			1/1	0.0	
				%		
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 4 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-035

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 49.5' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822 DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/14/2020 b. COMPLETED 06/14/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: John Moore

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	1		SILTY CLAY W/ SAND, RED, MED. STIFF, MED. PLAST MOIST	%	20.1	
	2		CLAYEY SAND, LT. BRWN. TO RED, FINE TO MED., LOOSE, WET	2 1/4 %	0.2	
	3					
	4			%	0.0	
	5			%	2.4	
	6			2 1/4 %	0.0	
	7					
	8			%	0.0	
	9		SANDY CLAY, LT. BRWN TO GREY, STIFF PLASTIC, DRY TO MOIST	%	0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-035

SHEET 2 OF 4 SHEETS

3. PROJECT

4. INSTALLATION

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	10		SAND LEASE @ 10' BGS	2.5/4 %	0.0	SAMPLE DPT-035(10-11) 1250
	11				0.0	
	12			2/2 %	0.0	
	13				0.0	
	14				0.0	
	15		SAND LEASE @ 15' BGS	2/2 %	0.0	
	16		SAND LEASE @ 16' BGS		0.0	SAMPLE DPT-035(15-16) 1255
	17			2/2 %	0.0	
	18				0.0	
	19		SAND LEASE @ 18.5' BGS	2/2 %	0.0	SAMPLE DPT-035(18-19) 1300
	20				0.0	
	21			2/2 %	0.0	SAMPLE DPT-035(21-22) 1305
	22		SILTY SAND, LT. BROWN TO GREY, FINE TO MED, LOOSE, DRY		0.2	
	23		SANDY CLAY, LT. BROWN TO GREY, MED, STIFF, PLASTIC, MOIST	2/2 %	0.0	
	24				0.0	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG (Continuation Sheet) For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.	1. ELEVATION TOP OF HOLE	2. HOLE NUMBER DPT-035	SHEET 3 OF 4 SHEETS
3. PROJECT		4. INSTALLATION LHAAP	

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	25		SILTY SAND w/ TRACE CLAY, LT. BROWN TO GREY, FINE, COHESIVE, WET	2/2 %	0.0	
	26				0.0	
	27			2/2 %	0.0	
	28		CLAY, LT. BROWN TO GREY, STIFF, PLASTIC, MOIST		0.0	
	29			2/2 %	0.0	
	30				0.0	
	31			2/2 %	0.0	
	32				0.0	
	33			2/2 %	0.0	
	34				0.0	
	35			2/2 %	0.0	
	36				0.0	
	37			2/2 %	0.0	
	38				0.0	
	39			%	0.0	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-035

SHEET 4 OF 4 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	40			2/2 %	0.0	
					0.0	
					0.0	
	41			2/2 %	0.0	
			SAND, LT. BROWN TO DARK GREY, LOOSE, FINE TO MED., WET		0.0	
	42			2/2 %	0.0	
					0.0	
	43				0.0	
				%	0.5	
	44			2/2 %	0.3	
	45				9.6	
					14.0	HIT REFUSAL @ 49.5' BGS
	46			1/1 %	20.8	
					1.4	PULL RODS UP 7.5'
	47			1/1 %	3.8	SET DEEP WELL SCREEN 39.5'-49.5' BGS,
					5.2	
	48			1/1 %	0.3	SET SHALLOW WELL SCREEN 23'-33' BGS
					1.4	
	49				2.3	
				0.5/0.5 %	4.4	
					1.5	
	50			%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION (Coordinates or Station): —

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-036

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN: —

11. DEPTH DRILLED INTO ROCK: —

12. TOTAL DEPTH OF HOLE: 33' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL): —

15. MANUFACTURERS DESIGNATION OF DRILL: —

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED — b. UNDISTURBED —

17. TOTAL NUMBER CORE BOXES: —

18. ELEVATION GROUND WATER: —

19. DATE HOLE (YYYYMMDD): a. STARTED 06/15/2020 b. COMPLETED 06/15/2020

20. ELEVATION TOP OF HOLE (feet): —

21. TOTAL CORE RECOVERY FOR BORING %: —

22. SIGNATURE OF INSPECTOR: [signature]

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		1	SILTY CLAY W/ SAND, LT. BROWN TO DARK BROWN, MED. STIFF, MED. PLASTIC, WET	1.5/4 %	3.4	
		2			0.0	
		3				
		4		%	0.0	
		5	SANDY CLAY, LT. BROWN TO RED, STIFF, MED. PLAST., DRY, SAND LENSES THROUGHOUT	%	0.0	
		6		4/4 %	0.0	
		7				
		8		%	0.0	
		9		%	0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-036

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
		10		4/4 %	0.0	
		11		%	0.0	SAMPLE DPT-036(11-12) 1155
		12		%	0.0	
		13		4/4 %	0.0	
		14				
		15		%	0.0	SAMPLE DPT-036 (15-16) 1200
		16	CLAYEY SAND, LT. BROWN, LOOSE, FINE TO MED. GRAIN, DRY	2/2 %	0.0	
		17			0.0	SAMPLE DPT-036(18-19) 1205
		18		%	0.0	
		19		2/2 %	0.0	
		20			0.0	
		21		2/2 %	0.0	SAMPLE DPT-036(21-22) 1210
		22			0.0	
		23	CLAY, LT. BROWN, STIFF, PLASTIC, MOIST, TRACE SAND	2/2 %	0.0	
		24		%	0.0	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-036

SHEET 3 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	e. PID / BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	25			2/2 %	0.0 0.0 0.0	
	26			%	0.0	
	27			2/2 %	0.0 0.0	
	28			2/2 %	0.0 0.0 0.0	
	29					
	30		CLAY, DARK BROWN, V. STIFF, PLASTIC, DRY	2/2 %	0.0 0.0 0.0	SET WELL SCREEN 23'-33' BGS
	31					
	32			1/1 %	0.0 0.0	
	33			%		
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 3 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION (Coordinates or Station)

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): DPT-037

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN

11. DEPTH DRILLED INTO ROCK

12. TOTAL DEPTH OF HOLE: 33' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL)

15. MANUFACTURERS DESIGNATION OF DRILL

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED b. UNDISTURBED

17. TOTAL NUMBER CORE BOXES

18. ELEVATION GROUND WATER

19. DATE HOLE (YYYYMMDD): a. STARTED 06/15/2020 b. COMPLETED 06/15/2020

20. ELEVATION TOP OF HOLE (feet)

21. TOTAL CORE RECOVERY FOR BORING %

22. SIGNATURE OF INSPECTOR: John Moore

23. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	1		SANDY/SILTY CLAY, LT. BROWN, SOFT, MED. PLASTIC, WET	%	2.3	
	2			2/4 %	0.0	
	3			%	0.6	
	4		CLAY W/ SAND LENSES THROUGHOUT, LT. BROWN TO GREY, STIFF, PLASTIC, MOIST	3.5/4 %	0.0	
	5					
	6			%	0.0	
	7					
	8			%	0.0	
	9		CLAYEY SAND, ORANGE TO LT. BROWN, LOOSE, FINE TO MED. GRAIN, DRY TO MOIST	%	0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-037

SHEET 2 OF 3 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	10			4/4 %	0.0	
	11		CLAY, LT. BROWN, STIFF, PLASTIC, DRY TO MOIST	%	0.0	SAMPLE DPT-037(11-12) 1350
	12		CLAYEY SAND, LT. BROWN TO GREY, LOOSE, FINE TO MED. GRAIN, DRY	2/2 %	0.0	
	13				0.0	
	14			%	0.0	SAMPLE DPT-037(14-15) 1355
	15			2/2 %	0.0	
	16		CLAY, LT. BROWN, STIFF, PLASTIC, DRY	2/2 %	0.0	
	17				0.0	
	18		SILTY SAND W/ CLAY, LT. BROWN TO DARK BROWN, LOOSE, FINE TO COARSE GRAIN, DRY	%	0.0	SAMPLE DPT-037(18-19) 1400
	19			2/2 %	0.0	
	20		CLAY, LT. BROWN TO GREY, MED. STIFF, PLASTIC, MOIST	2/2 %	0.0	
	21				0.0	SAMPLE DPT-037(21-22) 1405
	22			%	0.0	
	23			2/2 %	0.0	
	24				0.0	

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-037

SHEET 3 OF 3 SHEETS

PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS *(Description)*	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS *(Drilling Time, water loss, depth of weathering, etc., if significant)*
	25			2/2 %	0.0 0.0 0.0	
	26			%	0.0	
	27			2/2	0.0	
	28			%	0.0	
	29		SAND W/ CLAY, LT. BROWN TO GREY, COHESIVE, FINE GRAIN, WET	2/2 %	0.0 0.0	SET WELL SCREEN 23'-33' BGS
	30			%	0.0	
	31			2/2	0.0	
	32			%	0.0	
	33			1/1	0.0	
				%		
				%		
				%		
				%		
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

1. HOLE NUMBER

DRILLING LOG
For use of this form, see EM 1110-1-1804; the proponent agency is CECW-EG.

2. DIVISION

3. INSTALLATION: LHAAP

SHEET 1 OF 2 SHEETS

4. PROJECT: BLDG. 46A LHAAP

5. LOCATION (Coordinates or Station)

6. DRILLING AGENCY: WHE

7. HOLE NUMBER (as shown on drawing title and title number): ~~DPT-028~~ DPT-038

8. NAME OF DRILLER: KERRI POWELL

9. DIRECTION OF HOLE: [X] a. VERTICAL [ ] b. INCLINED c. DEG. FROM VERT.

10. THICKNESS OF OVERBURDEN

11. DEPTH DRILLED INTO ROCK

12. TOTAL DEPTH OF HOLE: 23' BGS

13. SIZE AND TYPE OF BIT: 3.25" CORE BARREL

14. DATUM FOR ELEVATION SHOWN (TBM or MSL)

15. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE 7822DT

16. TOTAL NO. OF OVER BURDEN SAMPLES TAKEN: a. DISTURBED b. UNDISTURBED

17. TOTAL NUMBER CORE BOXES

18. ELEVATION GROUND WATER

19. DATE HOLE (YYYYMMDD): a. STARTED 06/15/2020 b. COMPLETED 06/15/2020

20. ELEVATION TOP OF HOLE (feet)

21. TOTAL CORE RECOVERY FOR BORING %

22. SIGNATURE OF INSPECTOR

23. a. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
	0–4		SILTY SAND W/ CLAY, LT. BROWN, LOOSE, FINE TO MED. GRAIN, DRY	3.5/4 %	9.0	
	2				0.0	
	3				0.0	
	4–8		CLAY, SAND LENSES THROUGHOUT, LT. BROWN, STIFF, MED. PLASTIC, DRY	4/4 %	0.0	
	5				0.0	
	6				0.0	
	7				0.0	
	8					
	9		SILTY SAND, LT. BROWN, LOOSE, FINE, DRY, TRACE CLAY	2/2 %	0.0	

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PROJECT

HOLE NUMBER

VERSION 1.0

DRILLING LOG *(Continuation Sheet)*
For use of this form, see EM 1110-1-1604; the proponent agency is CECW-EG.

1. ELEVATION TOP OF HOLE

2. HOLE NUMBER: DPT-038

SHEET 2 OF 2 SHEETS

3. PROJECT

4. INSTALLATION: LHAAP

5. ELEVATION	a. DEPTH	b. LEGEND	c. CLASSIFICATION OF MATERIALS (Description)	d. % CORE RECOVERY	PID e. BOX OR SAMPLE NUMBER	f. REMARKS (Drilling Time, water loss, depth of weathering, etc., if significant)
		10			0.0	
				%	0.0	
				1.5/2 %	0.0	
		11	CLAYEY ZONE 11'-12'		0.0	SAMPLE DPT-038(11-12) 1540
		12			0.0	
				2/2 %	0.0	
		13			0.0	
				%		
		14	CLAY W/ SAND LEASES THROUGHOUT, LT. BROWN TO GREY, STIFF, MED. PLAST., DRY	1.5/2 %	0.0	SAMPLE DPT-038(15-16) 1545
		15			0.0	
					0.0	
		16	SILTY SAND, LT. BROWN, LOOSE, FINE, DRY	2/2 %	0.0	
		17			0.0	
			CLAY W/ SAND LEASES THROUGHOUT, MED. STIFF, MED PLAST., DRY			SAMPLE DPT-038(18-19) 1550
		18		%	0.0	
				2/2	0.0	
		19			0.0	
				%		
		20			0.0	
				%	0.0	
		21	CLAY, LT. BROWN, STIFF, PLASTIC, MOIST	2.5/3 %		SAMPLE DPT-038(22-23) 1555
		22			0.0	
		23				
				%		

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6. PROJECT

7. HOLE NUMBER

VERSION 1.0

MONITORING WELL COMPLETION RECORD

MONITORING WELL
MONITORING WELL NO.: 47WW48
PROJECT: BLDG 46A LHAAP
SITE: LHAAP
BOREHOLE NO.: —
WELL PERMIT NO.: —
TOC TO BOTTOM OF WELL: 34.10'

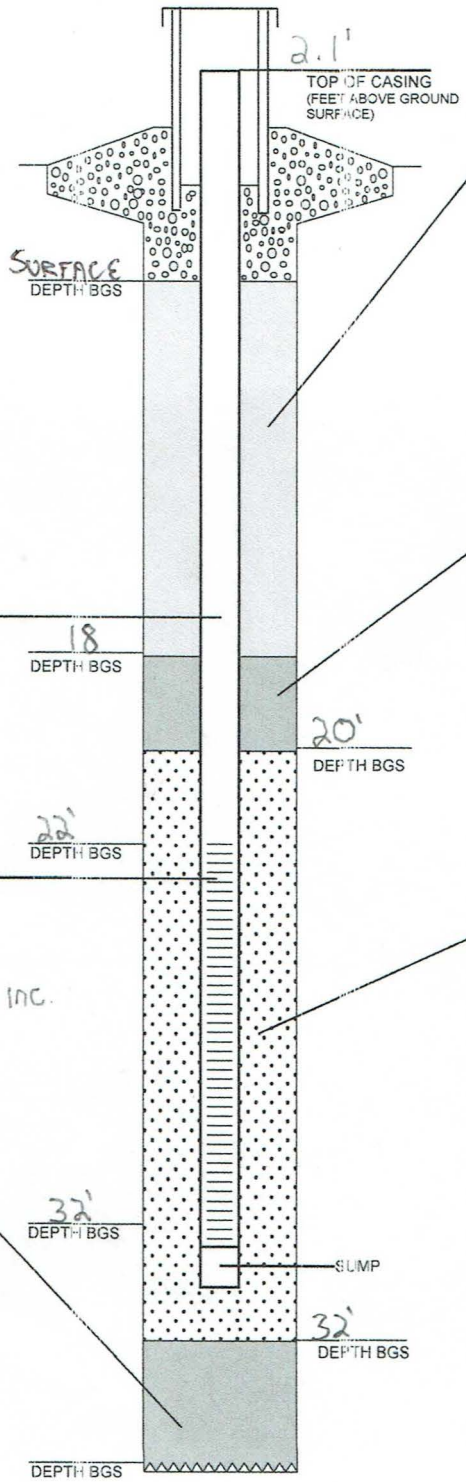
DRILLING INFORMATION
DRILLING BEGAN:
DATE: 06/24/20 TIME: 0800
WELL INSTALLATION BEGAN
DATE: 06/24/20 TIME: 1405
WELL INSTALLATION FINISHED:
DATE: 06/24/20 TIME: 1740
DRILLING CO.: WHE
DRILLER: KERRI POWELL
LICENSE:
DRILL RIG: GEOPROBE 3230 DT
DRILLING METHOD:
☒ HOLLOW STEM AUGER
☐ AIR ROTARY
☐ OTHER:
DIAMETER OF AUGERS:
ID: 8.25" OD: 12"

WELL CASING
☐ SCHEDULE 40 PVC
☒ OTHER: UN-CASED
PRODUCT:
MFG. BY:
CASING DIAMETER:
ID: OD:
LENGTH OF CASING:

WELL SCREEN
☒ SCHEDULE 40 PVC
☐ OTHER:
PRODUCT: 4" X 10' SCH 40 PVC
MFG. BY: ENVIRONMENTAL MANUFACTURING INC.
CASING DIAMETER:
ID: 4" OD: 4.5"
SLOT SIZE: 0.010
LENGTH OF SCREEN: 10.0'

BOREHOLE BACKFILL
AMOUNT CALCULATED:
AMOUNT USED:
☐ BENTONITE CHIPS, SIZE:
☐ BENTONITE PELLETS, SIZE:
☐ SLURRY:
☐ FORMATION COLLAPSE:
☐ OTHER:
PRODUCT:
MFG. BY:
METHOD INSTALLED:
☐ POURED ☐ TREMIE
☐ OTHER:

SURFACE COMPLETION
☐ FLUSH MOUNT
☒ ABOVE GROUND WITH BUMPER POST
☐ CONCRETE ☐ ASPHALT



SURVEY INFORMATION
TOC ELEVATION:
GROUND SURFACE ELEVATION:
NORTHING:
EASTING:
DATE SURVEYED:
SURVEY CO.:

ANNULAR SEAL
VOLUME CALCULATED: —
AMOUNT USED:
☒ GROUT FORMULA (PERCENTAGES)
PORTLAND CEMENT: ~4 BAGS 92-LBS
BENTONITE: 2.5 LBS
WATER: ~45 GALLONS
☐ PREPARED MIX
PRODUCT:
MFG. BY:
METHOD INSTALLED:
☒ POURED ☐ TREMIE
☐ OTHER:

BENTONITE SEAL
VOLUME CALCULATED:
AMOUNT USED: 2 BUCKETS
☒ PELLETS, SIZE: 1/4" TR30
☐ CHIPS, SIZE:
☐ OTHER:
PRODUCT: PEL-PLUG TIME-RELEASE BENT. PELLETS
MFG. BY PDS CO.
METHOD INSTALLED:
☒ POURED ☐ TREMIE
☐ OTHER:
AMOUNT OF WATER USED: 10 GALLONS

FILTER PACK
☐ PREPACKED FILTER
VOLUME CALCULATED:
AMOUNT USED: 17 50-lb BAGS
☒ SAND, SIZE: 20/40 SIEVE
PRODUCT: POOL FILTER MEDIA
MFG. BY: CONSOLIDATED AGGREGATES
METHOD INSTALLED:
☒ POURED ☐ TREMIE
☐ OTHER:
WATER LEVEL: 29.66' BTOC
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
☐ YES ☒ NO;
CENTRALIZER DEPTHS:

LEGEND
BGS = BELOW GROUND SURFACE
BTOC = BELOW TOP OF CASING
N/A = NOT APPLICABLE
NR = NOT RECORDED
TOC = TOP OF CASING

MONITORING WELL COMPLETION RECORD

MONITORING WELL
MONITORING WELL NO.: 47WW49
PROJECT: BLDG. 46A
SITE: LHAAP
BOREHOLE NO.: —
WELL PERMIT NO.: —
TOC TO BOTTOM OF WELL: ~32'

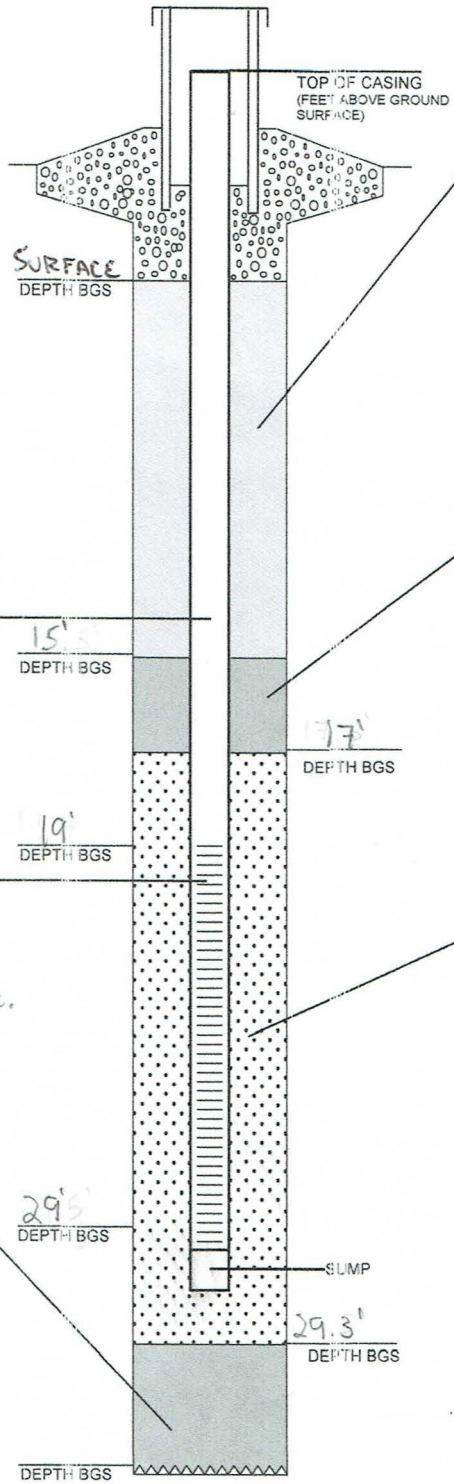
DRILLING INFORMATION
DRILLING BEGAN:
DATE: 06/24/20 TIME: 0740
WELL INSTALLATION BEGAN
DATE: 06/24/20 TIME: 1035
WELL INSTALLATION FINISHED:
DATE: 06/24/20 TIME: 1235
DRILLING CO.: WHE
DRILLER: KERRI POWELL
LICENSE:
DRILL RIG: GEOPROBE 3230 DT
DRILLING METHOD:
☒ HOLLOW STEM AUGER
☐ AIR ROTARY
☐ OTHER:
DIAMETER OF AUGERS:
ID: 8.25" OD: 12"

WELL CASING
☐ SCHEDULE 40 PVC
☒ OTHER: UN-CASED
PRODUCT: —
MFG. BY: —
CASING DIAMETER:
ID: — OD: —
LENGTH OF CASING: —

WELL SCREEN
☒ SCHEDULE 40 PVC
☐ OTHER:
PRODUCT: 4"X10' SCH 40 PVC
MFG. BY: ENVIRONMENTAL MANUFACTURING INC.
CASING DIAMETER:
ID: 4" OD: 4.5"
SLOT SIZE: 0.010
LENGTH OF SCREEN: 10'

BOREHOLE BACKFILL
AMOUNT CALCULATED:
AMOUNT USED:
☐ BENTONITE CHIPS, SIZE:
☐ BENTONITE PELLETS, SIZE:
☐ SLURRY:
☐ FORMATION COLLAPSE:
☐ OTHER:
PRODUCT:
MFG. BY:
METHOD INSTALLED:
☐ POURED ☐ TREMIE
☐ OTHER:

SURFACE COMPLETION
☐ FLUSH MOUNT
☒ ABOVE GROUND WITH BUMPER POST
☐ CONCRETE ☐ ASPHALT



SURVEY INFORMATION
TOC ELEVATION:
GROUND SURFACE ELEVATION:
NORTHING:
EASTING:
DATE SURVEYED:
SURVEY CO.:

ANNULAR SEAL
VOLUME CALCULATED:
AMOUNT USED:
☒ GROUT FORMULA (PERCENTAGES)
PORTLAND CEMENT: 3.5 BAGS 92-lbs
BENTONITE: 21b
WATER: ~40 GAL
☐ PREPARED MIX
PRODUCT:
MFG. BY:
METHOD INSTALLED:
☒ POURED ☐ TREMIE
☐ OTHER:

BENTONITE SEAL
VOLUME CALCULATED:
AMOUNT USED: 2 BUCKETS
☒ PELLETS, SIZE: 1/4" TR30
☐ CHIPS, SIZE:
☐ OTHER:
PRODUCT: PELL-PLUG TIME RELEASE BENT. PELLETS
MFG. BY PDS CO.
METHOD INSTALLED:
☒ POURED ☐ TREMIE
☐ OTHER:
AMOUNT OF WATER USED: 10 GALLONS

FILTER PACK
☐ PREPACKED FILTER
VOLUME CALCULATED:
AMOUNT USED: 17 BAGS 50 LBS
☐ SAND, SIZE: 20/40 SIEVE
PRODUCT: POOL FILTER MEDIA
MFG. BY: CONSOLIDATED AGGREGATES
METHOD INSTALLED:
☒ POURED ☐ TREMIE
☐ OTHER:
WATER LEVEL:
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
☐ YES ☒ NO;
CENTRALIZER DEPTHS:

LEGEND
BGS = BELOW GROUND SURFACE
BTOC = BELOW TOP OF CASING
N/A = NOT APPLICABLE
NR = NOT RECORDED
TOC = TOP OF CASING

MONITORING WELL COMPLETION RECORD

MONITORING WELL
MONITORING WELL NO.: 47WW50
PROJECT: BLDG. 46A
SITE: LHAAP
BOREHOLE NO.: _____
WELL PERMIT NO.: _____
TOC TO BOTTOM OF WELL: ~53'

DRILLING INFORMATION
DRILLING BEGAN:
DATE: 06/24/2020 TIME: 1400
WELL INSTALLATION BEGAN
DATE: 06/30/2020 TIME: 0805
WELL INSTALLATION FINISHED:
DATE: 07/07/2020 TIME: 1440
DRILLING CO.: WHE
DRILLER: KERRI POWELL
LICENSE: _____
DRILL RIG: GEOPROBE 3230 DT
DRILLING METHOD:
- ☒ HOLLOW STEM AUGER
- ☐ AIR ROTARY
- ☒ OTHER: MUD ROTARY

DIAMETER OF AUGERS:
ID: 8.25" OD: 12"

WELL CASING
- ☒ SCHEDULE 40 PVC
- ☐ OTHER: _____

PRODUCT: 8" SCH. 40 PVC
MFG. BY: ENV. MANUFACTURING INC.
CASING DIAMETER:
ID: 8" OD: 8.5"
LENGTH OF CASING: 45'

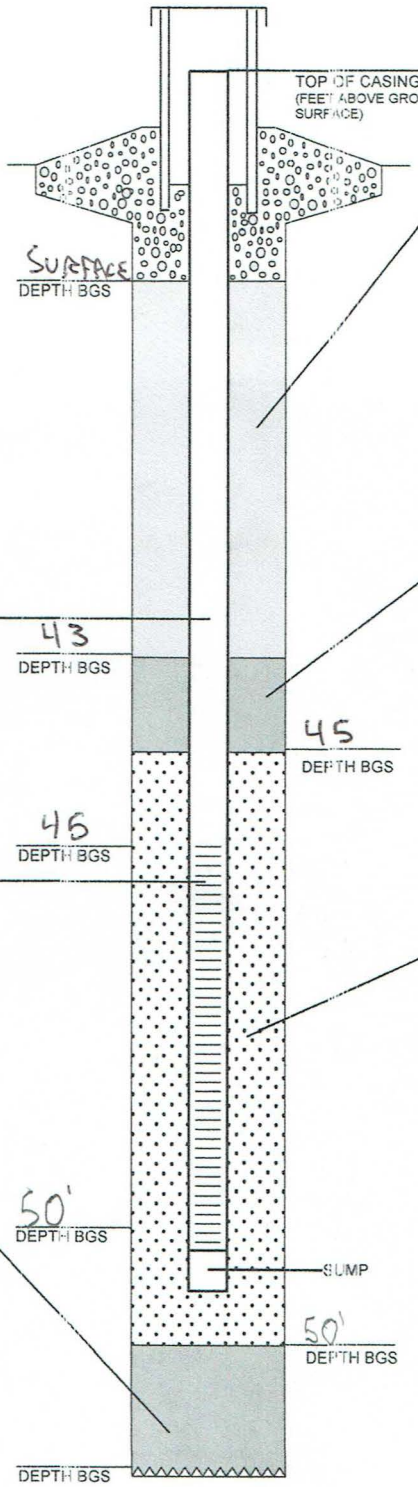
WELL SCREEN
- ☒ SCHEDULE 40 PVC
- ☐ OTHER: _____

PRODUCT: 4" X 5' SCH 40 PVC
MFG. BY: ENV. MANUFACTURING INC.
CASING DIAMETER:
ID: 4" OD: 4.5"
SLOT SIZE: 0.010
LENGTH OF SCREEN: 5'

BOREHOLE BACKFILL
AMOUNT CALCULATED: _____
AMOUNT USED: _____
- ☐ BENTONITE CHIPS, SIZE: _____
- ☐ BENTONITE PELLETS, SIZE: _____
- ☐ SLURRY: _____
- ☐ FORMATION COLLAPSE: _____
- ☐ OTHER: _____

PRODUCT: _____
MFG. BY: _____
METHOD INSTALLED:
- ☐ POURED ☐ TREMIE
- ☐ OTHER: _____

SURFACE COMPLETION
- ☐ FLUSH MOUNT
- ☒ ABOVE GROUND WITH BUMPER POST
- ☐ CONCRETE ☐ ASPHALT



SURVEY INFORMATION
TOC ELEVATION: _____
GROUND SURFACE ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE SURVEYED: _____
SURVEY CO.: _____

ANNULAR SEAL
VOLUME CALCULATED: _____
AMOUNT USED: ~4 B BAGS
- ☒ GROUT FORMULA (PERCENTAGES)
  - PORTLAND CEMENT: ~9 BAGS
  - BENTONITE: ~6 LBS
  - WATER: ~110 GALLONS
- ☐ PREPARED MIX
  - PRODUCT: _____
  - MFG. BY: _____

METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER: _____

BENTONITE SEAL
VOLUME CALCULATED: _____
AMOUNT USED: 2 BUCKETS
- ☒ PELLETS, SIZE: 1/4" TR30
- ☐ CHIPS, SIZE: _____
- ☐ OTHER: _____

PRODUCT: PEL-PLUG TIME RELEASE BENT. PELLETS
MFG. BY: PDS CO.
METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER: _____

AMOUNT OF WATER USED: 10 GALLONS

FILTER PACK
- ☐ PREPACKED FILTER

VOLUME CALCULATED: _____
AMOUNT USED: 8.5 BAGS 50 LBS
- ☒ SAND, SIZE: 20/40 SEIVE

PRODUCT: POOL FILTER MEDIA
MFG. BY: CONSOLIDATED AGGREGATES
METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER: _____

WATER LEVEL: _____
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
- ☐ YES ☒ NO;

CENTRALIZER DEPTHS: _____

LEGEND
BGS = BELOW GROUND SURFACE
BTOC = BELOW TOP OF CASING
N/A = NOT APPLICABLE
NR = NOT RECORDED
TOC = TOP OF CASING

MONITORING WELL COMPLETION RECORD

MONITORING WELL
MONITORING WELL NO.: 47WW51
PROJECT: LHAAP BLDG. 46A
SITE: LHAAP
BOREHOLE NO.: —
WELL PERMIT NO.:
TOC TO BOTTOM OF WELL: ~50'

DRILLING INFORMATION
DRILLING BEGAN:
DATE: 06/30/20 TIME: 1230
WELL INSTALLATION BEGAN
DATE: 07/07/20 TIME: 1450
WELL INSTALLATION FINISHED:
DATE: 07/07/20 TIME: 1723
DRILLING CO.: WHE
DRILLER: KERRI POWELL
LICENSE:
DRILL RIG: GEOPROBE 3230 DT
DRILLING METHOD:
- ☒ HOLLOW STEM AUGER
- ☐ AIR ROTARY
- ☐ OTHER:

DIAMETER OF AUGERS:
ID: 8.25" OD: 12"

WELL CASING
- ☒ SCHEDULE 40 PVC
- ☐ OTHER:

PRODUCT: 8" SCH. 40 PVC ~~RISER~~
MFG. BY: ENV. MANUFACTURING INC.
CASING DIAMETER:
ID: 8" OD: 8.5"
LENGTH OF CASING: 42'

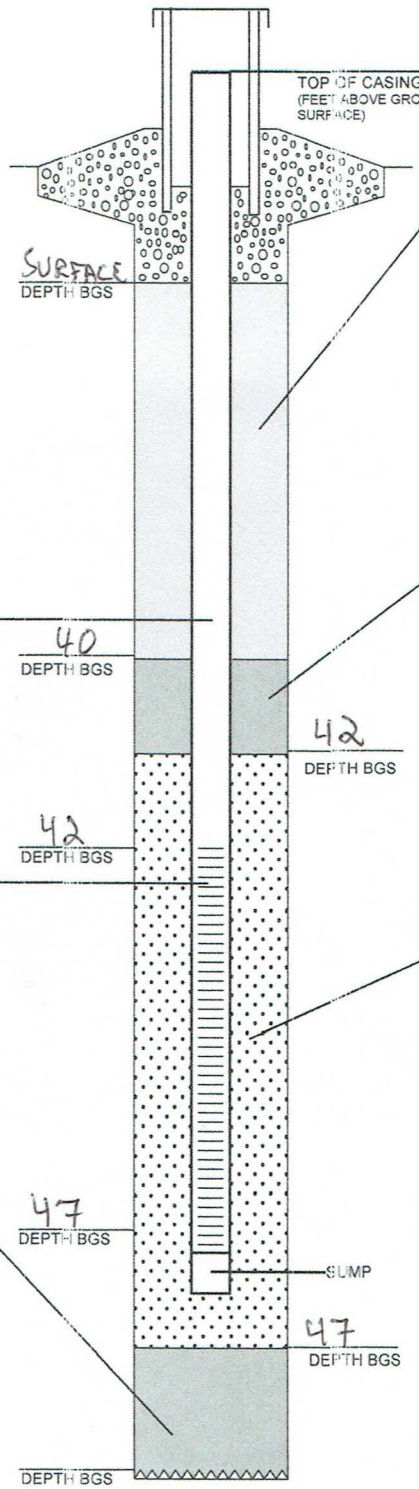
WELL SCREEN
- ☒ SCHEDULE 40 PVC
- ☐ OTHER:

PRODUCT: 4"x5' SCH. 40 PVC
MFG. BY: ENV. MANUFACTURING INC
CASING DIAMETER:
ID: 4" OD: 4.5"
SLOT SIZE: 0.010
LENGTH OF SCREEN: 5'

BOREHOLE BACKFILL
AMOUNT CALCULATED:
AMOUNT USED:
- ☐ BENTONITE CHIPS, SIZE:
- ☐ BENTONITE PELLETS, SIZE:
- ☐ SLURRY:
- ☐ FORMATION COLLAPSE:
- ☐ OTHER:

PRODUCT:
MFG. BY:
METHOD INSTALLED:
- ☐ POURED ☐ TREMIE
- ☐ OTHER:

SURFACE COMPLETION
- ☐ FLUSH MOUNT
- ☒ ABOVE GROUND WITH BUMPER POST
- ☐ CONCRETE ☐ ASPHALT



SURVEY INFORMATION
TOC ELEVATION:
GROUND SURFACE ELEVATION:
NORTHING:
EASTING:
DATE SURVEYED:
SURVEY CO.:

ANNULAR SEAL
VOLUME CALCULATED:
AMOUNT USED:
- ☒ GROUT FORMULA (PERCENTAGES)
  - PORTLAND CEMENT: ~8 BAGS
  - BENTONITE: ~5 BAGS
  - WATER: ~105 GALLONS
- ☐ PREPARED MIX
  - PRODUCT:
  - MFG. BY:

METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER:

BENTONITE SEAL
VOLUME CALCULATED:
AMOUNT USED: 2 BUCKETS
- ☒ PELLETS, SIZE: 1/4" TR30
- ☐ CHIPS, SIZE:
- ☐ OTHER:

PRODUCT: PELL-PLUG TIME RELEASE BENT. PELLETS
MFG. BY PDS CO.
METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER:

AMOUNT OF WATER USED: 10 GALLONS

FILTER PACK
- ☐ PREPACKED FILTER

VOLUME CALCULATED:
AMOUNT USED: 8.5 BAGS 50 LBS
- ☒ SAND, SIZE: 20/40 SIEVE

PRODUCT: POOL FILTER MEDIA
MFG. BY: CONSOLIDATED AGGREGATES
METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER:

WATER LEVEL:
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
☐ YES ☒ NO;
CENTRALIZER DEPTHS:

LEGEND
BGS = BELOW GROUND SURFACE
BTOC = BELOW TOP OF CASING
N/A = NOT APPLICABLE
NR = NOT RECORDED
TOC = TOP OF CASING

MONITORING WELL COMPLETION RECORD

MONITORING WELL
MONITORING WELL NO.: 47WW52
PROJECT: BLDG. 46A
SITE: LHAAP
BOREHOLE NO.: ~~~
WELL PERMIT NO.: ~~~
TOC TO BOTTOM OF WELL: ~ 36'

DRILLING INFORMATION
DRILLING BEGAN:
DATE: 07/01/2020 TIME: 1520
WELL INSTALLATION BEGAN
DATE: 07/02/2020 TIME: 1140
WELL INSTALLATION FINISHED:
DATE: 07/02/2020 TIME: 1330
DRILLING CO.: WHE
DRILLER: KERRI POWELL
LICENSE:
DRILL RIG: GEOPROBE 3230 DT
DRILLING METHOD:
- ☒ HOLLOW STEM AUGER
- ☐ AIR ROTARY
- ☐ OTHER:

DIAMETER OF AUGERS:
ID: 8.25" OD: 12"

WELL CASING
- ☐ SCHEDULE 40 PVC
- ☒ OTHER: UN-CASED

PRODUCT:
MFG. BY:
CASING DIAMETER:
ID: OD:
LENGTH OF CASING:

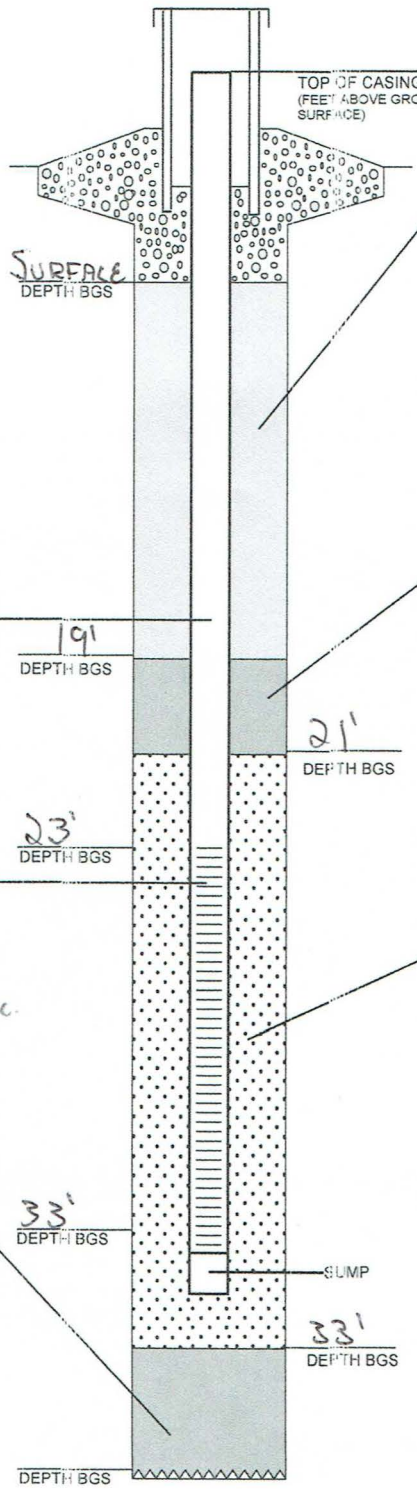
WELL SCREEN
- ☒ SCHEDULE 40 PVC
- ☐ OTHER:

PRODUCT: 4"x10' SCH. 40 PVC
MFG. BY: ENVIRONMENTAL MANUFACTURING INC.
CASING DIAMETER:
ID: 4" OD: 4.5"
SLOT SIZE: 0.010
LENGTH OF SCREEN: 10'

BOREHOLE BACKFILL
AMOUNT CALCULATED:
AMOUNT USED:
- ☐ BENTONITE CHIPS, SIZE:
- ☐ BENTONITE PELLETS, SIZE:
- ☐ SLURRY:
- ☐ FORMATION COLLAPSE:
- ☐ OTHER:

PRODUCT:
MFG. BY:
METHOD INSTALLED:
- ☐ POURED ☐ TREMIE
- ☐ OTHER:

SURFACE COMPLETION
- ☐ FLUSH MOUNT
- ☐ ABOVE GROUND WITH BUMPER POST
- ☐ CONCRETE ☐ ASPHALT



SURVEY INFORMATION
TOC ELEVATION:
GROUND SURFACE ELEVATION:
NORTHING:
EASTING:
DATE SURVEYED:
SURVEY CO.:

ANNULAR SEAL
VOLUME CALCULATED:
AMOUNT USED: ~~4,920 LBS BAGS~~ 7M
- ☒ GROUT FORMULA (PERCENTAGES)

PORTLAND CEMENT: 4 BAGS 92 LBS.
BENTONITE: 2.5 LBS
WATER: ~45 GAL
- ☐ PREPARED MIX

PRODUCT:
MFG. BY:
METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER:

BENTONITE SEAL
VOLUME CALCULATED:
AMOUNT USED: 2 BUCKETS
- ☒ PELLETS, SIZE: ¼" TR30
- ☐ CHIPS, SIZE:
- ☐ OTHER:

PRODUCT: PEL-PLUG TIME RELEASE BENT. PELLETS
MFG. BY PDS CO.
METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER:

AMOUNT OF WATER USED: 10 GALLONS

FILTER PACK
- ☐ PREPACKED FILTER

VOLUME CALCULATED:
AMOUNT USED: 17 BAGS 50 LBS
- ☒ SAND, SIZE: 20/40 SIEVE

PRODUCT: POOL FILTER MEDIA
MFG. BY: CONSOLIDATED AGGREGATES
METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER:

WATER LEVEL:
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
- ☐ YES ☒ NO;

CENTRALIZER DEPTHS:

LEGEND
BGS = BELOW GROUND SURFACE
BTOC = BELOW TOP OF CASING
N/A = NOT APPLICABLE
NR = NOT RECORDED
TOC = TOP OF CASING

MONITORING WELL COMPLETION RECORD

MONITORING WELL
MONITORING WELL NO.: 47WW53
PROJECT: LHAAP BLDG. 46A
SITE: LHAAP
BOREHOLE NO.: —
WELL PERMIT NO.: _____
TOC TO BOTTOM OF WELL: ~50'

SURFACE COMPLETION
☐ FLUSH MOUNT
☒ ABOVE GROUND WITH BUMPER POST
☐ CONCRETE ☐ ASPHALT

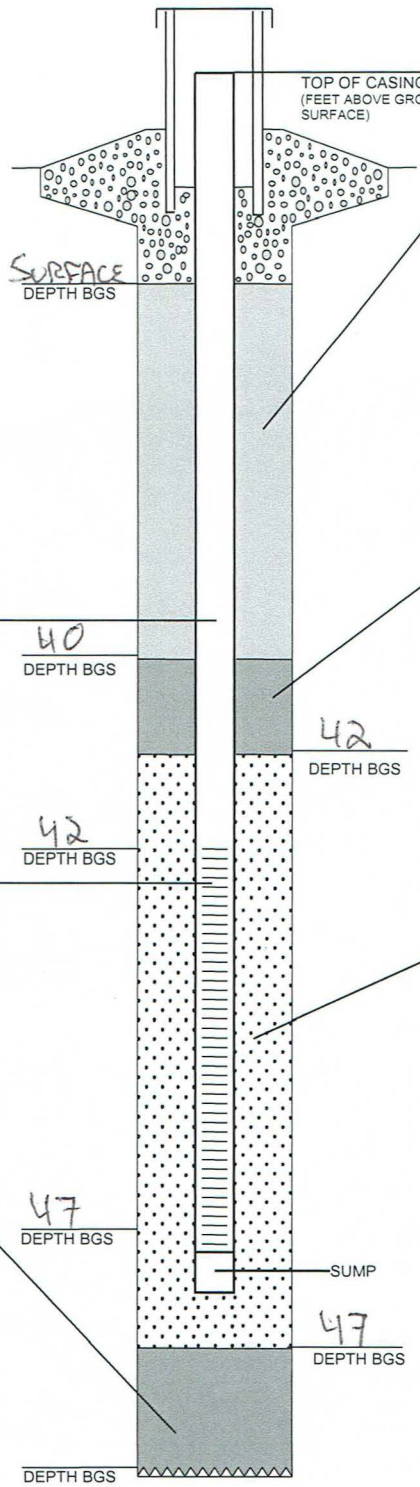
SURVEY INFORMATION
TOC ELEVATION: _____
GROUND SURFACE ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE SURVEYED: _____
SURVEY CO.: _____

DRILLING INFORMATION
DRILLING BEGAN:
DATE: 07/02/20 TIME: 1400
WELL INSTALLATION BEGAN:
DATE: 07/08/20 TIME: 0750
WELL INSTALLATION FINISHED:
DATE: 07/08/20 TIME: 1150
DRILLING CO.: WHE
DRILLER: KERRI POWELL
LICENSE: _____
DRILL RIG: GEOPROBE 3230 DT
DRILLING METHOD:
☒ HOLLOW STEM AUGER
☐ AIR ROTARY
☐ OTHER: _____
DIAMETER OF AUGERS:
ID: 8.25" OD: 12"

WELL CASING
☒ SCHEDULE 40 PVC
☐ OTHER: _____
PRODUCT: 8" SCH. 40 PVC
MFG. BY: ENV. MANUFACTURING INC.
CASING DIAMETER:
ID: 8" OD: 8.5"
LENGTH OF CASING: 42'

WELL SCREEN
☒ SCHEDULE 40 PVC
☐ OTHER: _____
PRODUCT: 4"x5' SCH. 40 PVC
MFG. BY: ENV. MANUFACTURING INC.
CASING DIAMETER:
ID: 4" OD: 4.5"
SLOT SIZE: 0.010
LENGTH OF SCREEN: 5'

BOREHOLE BACKFILL
AMOUNT CALCULATED: _____
AMOUNT USED: _____
☐ BENTONITE CHIPS, SIZE: _____
☐ BENTONITE PELLETS, SIZE: _____
☐ SLURRY: _____
☐ FORMATION COLLAPSE: _____
☐ OTHER: _____
PRODUCT: _____
MFG. BY: _____
METHOD INSTALLED:
☐ POURED ☐ TREMIE
☐ OTHER: _____



ANNULAR SEAL
VOLUME CALCULATED: _____
AMOUNT USED: _____
☒ GROUT FORMULA (PERCENTAGES)
PORTLAND CEMENT: ~8 BAGS
BENTONITE: ~5 LBS
WATER: ~10.5 GALLONS
☐ PREPARED MIX
PRODUCT: _____
MFG. BY: _____
METHOD INSTALLED:
☒ POURED ☐ TREMIE
☐ OTHER: _____

BENTONITE SEAL
VOLUME CALCULATED: _____
AMOUNT USED: 2 BUCKETS
☒ PELLETS, SIZE: 1/4" TR30
☐ CHIPS, SIZE: _____
☐ OTHER: _____
PRODUCT: PEL-PLUG TIME RELEASE PELLETS
MFG. BY: PDS CO.
METHOD INSTALLED:
☒ POURED ☐ TREMIE
☐ OTHER: _____
AMOUNT OF WATER USED: 10 GALLONS

FILTER PACK
☐ PREPACKED FILTER
VOLUME CALCULATED: ~~8.~~ 8 YM
AMOUNT USED: 8.5 BAGS 50 LBS
☒ SAND, SIZE: 20/40 SIEVE
PRODUCT: POOL FILTER MEDIA
MFG. BY: CONSOLIDATED AGGREGATES
METHOD INSTALLED:
☒ POURED ☐ TREMIE
☐ OTHER: _____
WATER LEVEL: _____
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
☐ YES ☒ NO;
CENTRALIZER DEPTHS: _____ _____

LEGEND
BGS = BELOW GROUND SURFACE
BTOC = BELOW TOP OF CASING
N/A = NOT APPLICABLE
NR = NOT RECORDED
TOC = TOP OF CASING

MONITORING WELL COMPLETION RECORD

MONITORING WELL
MONITORING WELL NO.: 47WW54
PROJECT: LHAAP B12 46A
SITE: LHAAP-47
BOREHOLE NO.: —
WELL PERMIT NO.: —
TOC TO BOTTOM OF WELL: ~54'

DRILLING INFORMATION
DRILLING BEGAN:
DATE: 07/15/2020 TIME: 1515
WELL INSTALLATION BEGAN
DATE: 07/15/2020 TIME: 1605
WELL INSTALLATION FINISHED:
DATE: 07/16/2020 TIME: _____
DRILLING CO.: WHE
DRILLER: Colby Pounds
LICENSE: _____
DRILL RIG: Geoprobe 8150LS
DRILLING METHOD:
- ☐ HOLLOW STEM AUGER
- ☐ AIR ROTARY
- ☒ OTHER: Sonic

DIAMETER OF AUGERS:
ID: 8" OD: 8.75"

WELL CASING
- ☒ SCHEDULE 40 PVC
- ☐ OTHER: _____

PRODUCT: _____
MFG. BY: _____
CASING DIAMETER:
ID: 2" OD: 2.5"
LENGTH OF CASING: ~49'

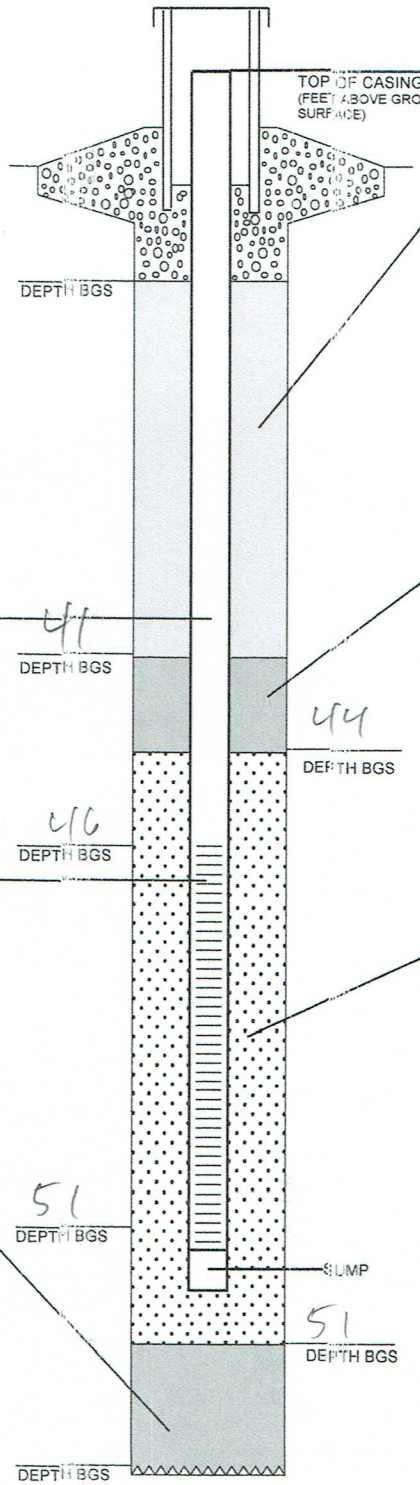
WELL SCREEN
- ☒ SCHEDULE 40 PVC
- ☐ OTHER: _____

PRODUCT: _____
MFG. BY: _____
CASING DIAMETER:
ID: 2" OD: 2.5"
SLOT SIZE: 0.010"
LENGTH OF SCREEN: 5'

BOREHOLE BACKFILL
AMOUNT CALCULATED: _____
AMOUNT USED: _____
- ☐ BENTONITE CHIPS, SIZE: _____
- ☐ BENTONITE PELLETS, SIZE: _____
- ☐ SLURRY: _____
- ☐ FORMATION COLLAPSE: _____
- ☐ OTHER: _____

PRODUCT: _____
MFG. BY: _____
METHOD INSTALLED:
- ☐ POURED ☐ TREMIE
- ☐ OTHER: _____

SURFACE COMPLETION
- ☐ FLUSH MOUNT
- ☒ ABOVE GROUND WITH BUMPER POST
- ☐ CONCRETE ☐ ASPHALT



SURVEY INFORMATION
TOC ELEVATION: _____
GROUND SURFACE ELEVATION: _____
NORTHING: _____
EASTING: _____
DATE SURVEYED: _____
SURVEY CO.: _____

ANNULAR SEAL
VOLUME CALCULATED: _____
AMOUNT USED: _____
- ☐ GROUT FORMULA (PERCENTAGES)
  - PORTLAND CEMENT: 5 92-lb bags
  - BENTONITE: 5 lb
  - WATER: 50-55 gallons
- ☐ PREPARED MIX
  - PRODUCT: _____
  - MFG. BY: _____

METHOD INSTALLED:
- ☐ POURED ☒ TREMIE
- ☐ OTHER: _____

BENTONITE SEAL
VOLUME CALCULATED: _____
AMOUNT USED: 1 5-gallon bucket
- ☒ PELLETS, SIZE: 1/4"
- ☐ CHIPS, SIZE: _____
- ☐ OTHER: _____

PRODUCT: PBL PLUG
MFG. BY _____
METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER: _____

AMOUNT OF WATER USED: _____

FILTER PACK
- ☐ PREPACKED FILTER

VOLUME CALCULATED: _____
AMOUNT USED: 4 50-lb bags
- ☒ SAND, SIZE: 20/40 sieve

PRODUCT: _____
MFG. BY: Consolidated Aggregates
METHOD INSTALLED:
- ☒ POURED ☐ TREMIE
- ☐ OTHER: _____

WATER LEVEL: _____
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
☒ YES ☐ NO;
CENTRALIZER DEPTHS: 20 40

LEGEND
BGS = BELOW GROUND SURFACE
BTOC = BELOW TOP OF CASING
N/A = NOT APPLICABLE
NR = NOT RECORDED
TOC = TOP OF CASING

MONITORING WELL COMPLETION RECORD

MONITORING WELL
MONITORING WELL NO.: 47MW55
PROJECT: LHAAP Bldg 46A
SITE: LHAAP-47
BOREHOLE NO.: —
WELL PERMIT NO.: —
TOC TO BOTTOM OF WELL: ~36'

DRILLING INFORMATION
DRILLING BEGAN:
DATE: 07/14/2020 TIME: 1615
WELL INSTALLATION BEGAN:
DATE: 07/15/2020 TIME: 0745
WELL INSTALLATION FINISHED:
DATE: 07/15/2020 TIME: 0820
DRILLING CO.: WHE
DRILLER: Colby Pounds
LICENSE: —
DRILL RIG: Geoprobe 8150LS
DRILLING METHOD:
- ☐ HOLLOW STEM AUGER
- ☐ AIR ROTARY
- ☑ OTHER: Sonic

DIAMETER OF AUGERS:
ID: 8" OD: 8.75"

WELL CASING
- ☑ SCHEDULE 40 PVC
- ☐ OTHER:

PRODUCT:
MFG. BY:
CASING DIAMETER:
ID: 4" OD: 4.5"
LENGTH OF CASING: ~26'

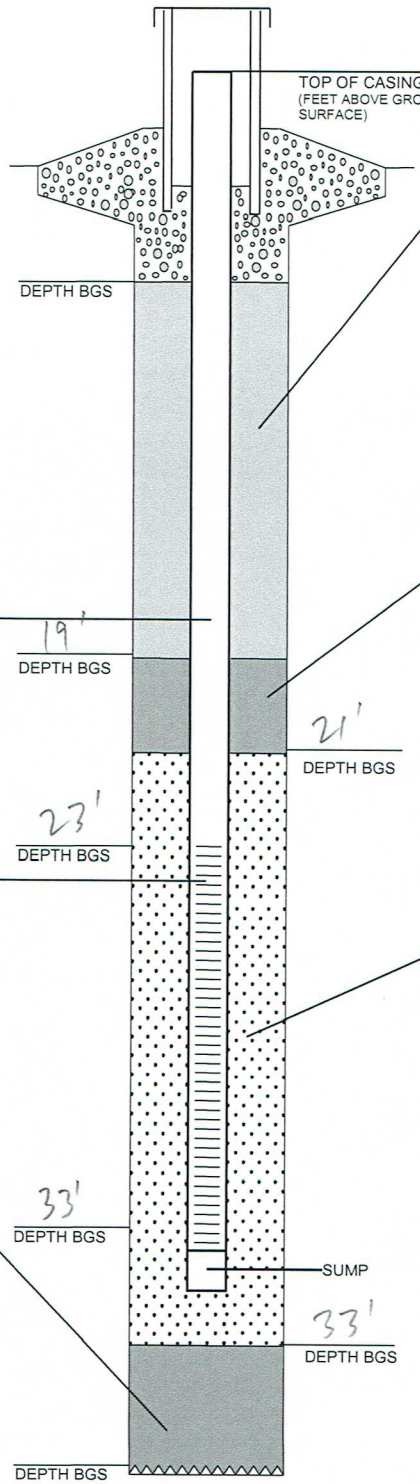
WELL SCREEN
- ☑ SCHEDULE 40 PVC
- ☐ OTHER:

PRODUCT:
MFG. BY:
CASING DIAMETER:
ID: 4" OD: 4.5"
SLOT SIZE: 0.010"
LENGTH OF SCREEN: 10'

BOREHOLE BACKFILL
AMOUNT CALCULATED:
AMOUNT USED:
- ☐ BENTONITE CHIPS, SIZE:
- ☐ BENTONITE PELLETS, SIZE:
- ☐ SLURRY:
- ☐ FORMATION COLLAPSE:
- ☐ OTHER:

PRODUCT:
MFG. BY:
METHOD INSTALLED:
- ☐ POURED ☐ TREMIE
- ☐ OTHER:

SURFACE COMPLETION
- ☐ FLUSH MOUNT
- ☑ ABOVE GROUND WITH BUMPER POST
- ☐ CONCRETE ☐ ASPHALT



SURVEY INFORMATION
TOC ELEVATION:
GROUND SURFACE ELEVATION:
NORTHING:
EASTING:
DATE SURVEYED:
SURVEY CO.:

ANNULAR SEAL
VOLUME CALCULATED:
AMOUNT USED:
- ☑ GROUT FORMULA (PERCENTAGES)
  - PORTLAND CEMENT: 5 bags 92-15
  - BENTONITE: 5 lb
  - WATER: 50 gallons
- ☐ PREPARED MIX
  - PRODUCT:
  - MFG. BY:

METHOD INSTALLED:
- ☐ POURED ☑ TREMIE
- ☐ OTHER:

BENTONITE SEAL
VOLUME CALCULATED:
AMOUNT USED: 1 5 gallon bucket
- ☑ PELLETS, SIZE: 1/4"
- ☐ CHIPS, SIZE:
- ☐ OTHER:

PRODUCT: PEL PLUG
MFG. BY:
METHOD INSTALLED:
- ☑ POURED ☐ TREMIE
- ☐ OTHER:

AMOUNT OF WATER USED:

FILTER PACK
- ☐ PREPACKED FILTER

VOLUME CALCULATED:
AMOUNT USED: 10 50-16 bags
- ☑ SAND, SIZE: 20/40 sieve

PRODUCT:
MFG. BY: Consolidated Aggregates
METHOD INSTALLED:
- ☑ POURED ☐ TREMIE
- ☐ OTHER:

WATER LEVEL:
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
☐ YES ☑ NO;
CENTRALIZER DEPTHS:

LEGEND
BGS = BELOW GROUND SURFACE
BTOC = BELOW TOP OF CASING
N/A = NOT APPLICABLE
NR = NOT RECORDED
TOC = TOP OF CASING

STATE OF TEXAS PLUGGING REPORT for Tracking #202637

Owner:	**USACE Tulsa District**	Owner Well #:	**47WW25R**
Address:	**2488 E 81st St Tulsa, OK 74137**	Grid #:	**35-23-6**
Well Location:	**Longhorn Army Ammunition Plant Site 47. Karnack, TX**	Latitude:	**32° 40' 57.86" N**
		Longitude:	**094° 08' 43.72" W**
Well County:	**Harrison**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **ETTL Engineers & Consultants, Inc.** Date Drilled: **6/1/2018**

Driller: **Richard R Herman** License Number: **59385**

Well Report Tracking #497915

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**10.25**	**0**	**40**

Plugging Information

Date Plugged: **6/16/2020** Plugger:

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

No Data

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**40**	**Cement**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Walker-Hill Environmental, Inc.**

PO 1147
Foxworth, MS 39483

Driller Name: **Gary P Hill** License Number: **58141**

Apprentice Name: **Eric Meitzler**

Comments: **Removed top 8.5' of 4" PVC riser pipe**

STATE OF TEXAS WELL REPORT for Tracking #555300

Owner:	**USACE Tulsa District**	Owner Well #:	**47WW48**
Address:	**2488 E 81st St Tulsa, OK 74137**	Grid #:	**35-23-6**
Well Location:	**Longhorn Army Ammunition Plant Karnack, TX, TX**	Latitude:	**32° 40' 56.21" N**
		Longitude:	**094° 08' 45.28" W**
Well County:	**Harrison**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **6/23/2020** Drilling End Date: **7/17/2020**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**12**	**0**	**32**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
20	**32**	**Sand**	**20/40**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**18**	**Cement Bags/Sacks**
18	**20**	**Bentonite 2 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Walker-Hill Environmental, Inc.**

PO 1147
Foxworth, MS 39483

Driller Name: **Gary P Hill** License Number: **58141**

Apprentice Name: **Eric Meitzler**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**7**	**Silty Clay w/ sand Brown to dark brown**
7	**9**	**Sandy Silt light brown to Grey loose, fine, dry**
9	**25**	**Silty Clay with sand lenses throughout**
25	**32**	**Silty sand with clay light brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4	**Riser**	**New Plastic (PVC)**	**40**	**-3**	**22**
4	**Screen**	**New Plastic (PVC)**	**40 0.010**	**22**	**32**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #555294

Owner:	**USACE Tulsa District**	Owner Well #:	**47WW49**
Address:	**2488 E 81st St Tulsa, OK 74137**	Grid #:	**35-23-6**
Well Location:	**Longhorn Army Ammunition Plant Karnack, TX, TX**	Latitude:	**32° 40' 57.9" N**
		Longitude:	**094° 08' 43.8" W**
Well County:	**Harrison**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **6/24/2020** Drilling End Date: **7/17/2020**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**12**	**0**	**29**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**17**	**29**	**Sand**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**15**	**Cement 4 Bags/Sacks**
	15	**17**	**Bentonite 2 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Walker-Hill Environmental, Inc.**

PO 1147
Foxworth, MS 39483

Driller Name: **Gary P Hill** License Number: **58141**

Apprentice Name: **Eric Meitzler**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**17**	**Clay stiff, plastic brown/red/tan**
17	**19**	**Sand loose tan dry**
18	**23**	**clay sandy stiff plastic**
23	**27**	**Sand loose tan moist**
27	**29**	**Clay stiff sandy plastic dry**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4	**Riser**	**New Plastic (PVC)**	**40**	**-3**	**19**
4	**Screen**	**New Plastic (PVC)**	**40 0.010**	**19**	**29**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #555311

Owner:	**USACE Tulsa District**	Owner Well #:	**47WW50**
Address:	**2488 E 81st St Tulsa, OK 74137**	Grid #:	**35-23-6**
Well Location:	**Longhorn Army Ammunition Plant Karnack, TX, TX**	Latitude:	**32° 40' 57.86" N**
		Longitude:	**094° 08' 43.87" W**
Well County:	**Harrison**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **6/24/2020** Drilling End Date: **7/17/2020**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12	**0**	**45**
8	**45**	**50**

Drilling Method: **Hollow Stem Auger; Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
45	**50**	**Sand**	**20/40**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**43**	**Cement Bags/Sacks**
43	**45**	**Bentonite 2 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Walker-Hill Environmental, Inc.**

PO 1147
Foxworth, MS 39483

Driller Name: **Gary P Hill** License Number: **58141**

Apprentice Name: **Eric Meitzler**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**17**	**Clay Stiff plastic brown/red/tan**
17	**19**	**Sand Loose tan dry**
19	**23**	**Clay sandy stiff plastic**
23	**27**	**Sand loose tan moist**
27	**32**	**Clay stiff sandy plastic dry**
32	**36**	**Sand wet Loose**
36	**50**	**sample not recorded**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4	**Riser**	**New Plastic (PVC)**	**40**	**-3**	**45**
4	**Screen**	**New Plastic (PVC)**	**40 0.010**	**45**	**50**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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STATE OF TEXAS WELL REPORT for Tracking #555313

Owner:	**USACE Tulsa District**	Owner Well #:	**47WW51**
Address:	**2488 E 81st St Tulsa, OK 74137**	Grid #:	**35-23-6**
Well Location:	**Longhorn Army Ammunition Plant Karnack, TX, TX**	Latitude:	**32° 40' 59.34" N**
		Longitude:	**094° 08' 42.07" W**
Well County:	**Harrison**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **6/24/2020** Drilling End Date: **7/17/2020**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12	**0**	**40**
8	**40**	**47**

Drilling Method: **Hollow Stem Auger; Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
42	**47**	**Sand**	**20/40**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**40**	**Cement Bags/Sacks**
40	**42**	**Bentonite 2 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Walker-Hill Environmental, Inc.**

PO 1147
Foxworth, MS 39483

Driller Name: **Gary P Hill** License Number: **58141**

Apprentice Name: **Eric Meitzler**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**9**	**Clay with trace sand med. stiff plastic**
9	**12**	**Silty Clay light brown**
12	**23**	**Clay with sand & silt stiff**
23	**27**	**Clay with silt/sand lenses**
27	**31**	**Clay with silt and trace sand**
31	**41**	**Clay light brown to grey stiff**
41	**45**	**Sand light brown to grey fine grain**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4	**Riser**	**New Plastic (PVC)**	**40**	**-3**	**42**
4	**Screen**	**New Plastic (PVC)**	**40 0.010**	**42**	**47**

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #555309

Owner:	**USACE Tulsa District**	Owner Well #:	**47WW52**
Address:	**2488 E 81st St Tulsa, OK 74137**	Grid #:	**35-23-6**
Well Location:	**Longhorn Army Ammunition Plant Karnack, TX, TX**	Latitude:	**32° 41' 00.55" N**
		Longitude:	**094° 08' 42.12" W**
Well County:	**Harrison**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **6/24/2020** Drilling End Date: **7/17/2020**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12	**0**	**33**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
21	**33**	**Sand**	**20/40**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**19**	**Cement Bags/Sacks**
19	**21**	**Bentonite 2 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Walker-Hill Environmental, Inc.**

PO 1147
Foxworth, MS 39483

Driller Name: **Gary P Hill** License Number: **58141**

Apprentice Name: **Eric Meitzler**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**Sand silt w/ clay, stiff**
4	**6**	**Clay dark brown to red stiff**
6	**12**	**Sandy silt loose fine dry**
12	**21**	**Silty sand brow to grey fine dry**
21	**28**	**Sand with clay**
28	**32**	**Clay light brown med stiff plastic moist**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4	**Riser**	**New Plastic (PVC)**	**40**	**-3**	**23**
4	**Screen**	**New Plastic (PVC)**	**40 0.010**	**23**	**33**

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STATE OF TEXAS WELL REPORT for Tracking #555314

Owner:	**USACE Tulsa District**	Owner Well #:	**47WW53**
Address:	**2488 E 81st St Tulsa, OK 74137**	Grid #:	**35-23-6**
Well Location:	**Longhorn Army Ammunition Plant Karnack, TX, TX**	Latitude:	**32° 41' 00.55" N**
		Longitude:	**094° 08' 42.12" W**
Well County:	**Harrison**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **7/2/2020** Drilling End Date: **7/17/2020**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12	**0**	**40**
8	**40**	**47**

Drilling Method: **Hollow Stem Auger; Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
42	**47**	**Sand**	**20/40**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**40**	**Cement Bags/Sacks**
40	**42**	**Bentonite 2 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Walker-Hill Environmental, Inc.**

PO 1147
Foxworth, MS 39483

Driller Name: **Gary P Hill** License Number: **58141**

Apprentice Name: **Eric Meitzler**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**Sandy silt with clay**
4	**6**	**Clay dark brown to red**
6	**11**	**Sandy silt, loose, fine dry**
11	**14**	**Clay stiff med. plastic**
14	**21**	**Silty sand light brown to grey**
21	**28**	**Sand with clay med. stiff**
28	**37**	**Clay light brown med stiff, plastic moist**
37	**47**	**sand, light brown to orange**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4	**Riser**	**New Plastic (PVC)**	**40**	**-3**	**42**
4	**Screen**	**New Plastic (PVC)**	**40 0.010**	**42**	**47**

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STATE OF TEXAS WELL REPORT for Tracking #554855

Owner:	**USACE Tulsa District**	Owner Well #:	**47WW54**
Address:	**2488 E 81st St Tulsa, OK 74137**	Grid #:	**35-23-6**
Well Location:	**Longhorn Army Ammunition Plant Karnack, TX, TX**	Latitude:	**32° 41' 01" N**
		Longitude:	**094° 08' 42" W**
Well County:	**Harrison**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **7/15/2020** Drilling End Date: **7/17/2020**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**51**

Drilling Method: **Sonic**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**44**	**51**	**Sand**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**41**	**Cement 5 Bags/Sacks**
	41	**44**	**Bentonite 1 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Walker-Hill Environmental, Inc.**

PO 1147
Foxworth, MS 39483

Driller Name: **Gary P Hill** License Number: **58141**

Apprentice Name: **Eric Meitzler**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**13**	**Sand with Silt**
13	**15**	**Silty Clay**
15	**17**	**Sand**
17	**27**	**Clay/Silt Stiff**
27	**37**	**Sand Silty, loose tan**
37	**42**	**Clay Silty tan**
42	**51**	**Sand gray**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**-3**	**46**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**46**	**51**

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STATE OF TEXAS WELL REPORT for Tracking #554857

Owner:	**USACE Tulsa District**	Owner Well #:	**47WW55**
Address:	**2488 E 81st St Tulsa, OK 74137**	Grid #:	**35-23-6**
Well Location:	**Longhorn Army Ammunition Plant Karnack, TX, TX**	Latitude:	**32° 41' 01" N**
		Longitude:	**094° 08' 42" W**
Well County:	**Harrison**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **7/14/2020** Drilling End Date: **7/17/2020**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8	**0**	**33**

Drilling Method: **Sonic**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
21	**33**	**Sand**	**20/40**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**19**	**Cement 5 Bags/Sacks**
19	**21**	**Bentonite 1 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Walker-Hill Environmental, Inc.**

PO 1147
Foxworth, MS 39483

Driller Name: **Gary P Hill** License Number: **58141**

Apprentice Name: **Eric Meitzler**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**13**	**Sand with Silt**
13	**15**	**Silty Clay**
15	**17**	**Sand**
17	**27**	**Clay/Silt Stiff**
27	**33**	**Sand Silty, loose tan**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4	**Riser**	**New Plastic (PVC)**	**40**	**-3**	**23**
4	**Screen**	**New Plastic (PVC)**	**40 0.010**	**23**	**33**

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Attachment 4

Low Flow Groundwater Sample Logs

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Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW09	Samplers : EDN
Date : 11/07/2019	Project : LHAAP Bldg 46A

Equipment

Pump : Geocontrol PRO	
Water Level Meter : Heron	
Parameter Meter : YSI 557	
Turbidity Meter: Hanna	

Casing Diameter :	Initial Water Level :	Final Water Level :	Total Well Depth :	Purge Volume (Total):
4"	27.50' btoc	28.81' btoc	41.25' btoc	5.1 L

Sample ID : 47WW09	**Analyses :**	**# of Bottles**
QC Samples: ~~FD FS RB MS/MSD~~	Analyses: 1,4-Dioxane	2
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected: 1,4-Dioxane	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (mL/min)	Purge Volume (mL)	Temp. (°C)	Conductivity ~~(uS/cm)~~ (mS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1502	28.08	200	1500	17.64	2483	7.91	4.50	-93.2	2.80
1505	28.23	200	600	17.92	2515	7.86	2.32	-103.6	3.39
1508	28.37	200	600	17.95	2532	7.91	1.61	-109.6	2.85
1511	28.50	200	6.00	18.02	2540	7.94	1.23	-116.1	2.59
1514	28.67	200	600	18.06	2543	7.99	0.93	-123.3	2.16
1517	28.71	200	600	18.05	2541	8.00	0.90	-122.4	2.33
1520	28.81	200	600	18.05	2550	8.01	0.87	-123.2	2.14
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1525 Sampler's Signature: EDN Checked by : —

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW25R	Samplers : EN
Date : 11/08/2019	Project : LHAAP Bldg 46A

Equipment

Pump : Grocontrol PRO	
Water Level Meter : Heron	
Parameter Meter : YSI 556	
Turbidity Meter: Hanna	

Casing Diameter :	Initial Water Level :	Final Water Level :	Total Well Depth :	Purge Volume (Total):
4"	30.98' btoc	31.22' btoc	39.5'	4.0 L

Sample ID :	Analyses :	# of Bottles
QC Samples: (FD) FS RB (MS/MSD)	Analyses: VOC, 1,4-Dioxane	19
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected: SAA	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (mL/min)	Purge Volume (L)	Temp. (°C)	Conductivity (uS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1012	31.19	200	1.0	14.92	1623	8.55	1.67	11.9	2.17
1017	31.20	200	2.0	15.41	1624	7.91	1.33	11.2	2.88
1022	31.22	200	3.0	15.89	1627	7.56	1.21	9.4	2.43
1025	31.21	200	3.6	16.08	1629	7.51	1.12	8.2	2.35
1028	31.23	200	4.2	16.06	1629	7.47	1.09	7.7	1.63
1031	31.22	200	4.8	16.17	1631	7.39	0.99	7.2	1.03
1034	31.24	200	5.4	16.08	1632	7.34	0.97	6.9	1.02
1037	31.22	200	6.0	16.06	1632	7.34	0.96	6.8	1.41
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1040 mid screen | Sampler's Signature: | Checked by : —

1130 38'

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW37	Samplers : EN
Date : 11/08/2019	Project : LHAAP Bldg 46A

Equipment

Pump : Geocontrol PRO	
Water Level Meter : Heron	
Parameter Meter : YSI 556	
Turbidity Meter: Hanna	

Casing Diameter :	Initial Water Level :	Final Water Level :	Total Well Depth :	Purge Volume (Total):
2"	32.66' btoc	37.74' btoc	55.45' btoc	8.8 L

Sample ID : 47WW37	**Analyses :**	**# of Bottles**
QC Samples: ~~FD FS RB MS/MSD~~	Analyses: VOC	3
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected: VOC	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (mL/min)	Purge Volume (L)	Temp. (°C)	Conductivity (uS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0824	34.73	200	1.0	13.87	3226	12.41	5.10	-18.4	44.7
0827	34.91	200	1.6	14.44	3320	11.76	4.46	-14.1	43.4
0830	35.14	200	2.2	14.63	3347	11.64	4.33	-12.5	85.5
0833	35.77	200	2.8	14.61	3361	11.53	4.22	-11.6	113.6
0842	36.07	200	3.7	14.48	3367	11.03	4.00	-8.9	96.4
0845	36.37	200	4.3	14.77	3374	10.77	3.90	-8.7	70.0
0848	36.58	200	4.6	14.82	3382	10.56	3.91	-8.3	50.1
0851	36.70	200	5.2	14.95	3382	10.55	3.90	-8.0	39.5
0854	36.88	200	5.8	15.00	3384	10.24	3.87	-7.8	31.8
0857	37.19	200	6.4	15.05	3397	9.47	3.83	-7.0	25.2
0900	37.38	200	7.0	14.86	3398	8.97	3.84	-6.1	21.1
0906	37.62	200	8.2	14.79	3394	8.74	3.81	-6.1	16.1
0909	37.74	200	8.8	14.78	3397	8.95	3.79	-6.2	14.5
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1915 | Sampler's Signature: | Checked by :

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47VW13	Samplers : ERIC NORTH
Date : 05/28/2020	Project : Bldg 46A Phase II PSI

Equipment

Pump : QED Bladder	
Water Level Meter : Solinst 100'	
Parameter Meter : YSI 556	
Turbidity Meter: Hach 2100 Q	

Casing Diameter :	Initial Water Level :	Final Water Level :	Total Well Depth :	Purge Volume (Total):
4"	5.84' btoc	7.27' btoc	19.77' btoc	6.4 L

Sample ID :	Analyses : VOC.	# of Bottles
QC Samples: FD FS RB MS/MSD	Analyses:	2
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected: VOC	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (mL/min)	Purge Volume (L)	Temp. (°C)	Conductivity (mS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1506	6.00	300	1.0	22.44	0.184	6.01	2.61	-94.3	127
1509	6.48	300	1.9	22.35	0.181	5.77	2.38	-66.7	93.5
1512	6.65	300	2.8	22.26	0.181	5.76	2.59	-57.6	101
1515	6.82	300	3.7	22.16	0.180	5.79	2.58	-56.5	109
1518	7.02	300	4.6	22.13	0.180	5.81	2.58	-53.5	76.5
1521	7.17	300	5.5	22.07	0.180	5.84	2.57	-51.2	142
1524	7.27	300	6.4	22.07	0.180	5.87	2.60	-49.8	68.7
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1530	Sampler's Signature: BN	Checked by : —

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW14	Samplers : ERIC NORTH
Date : 05/28/2020	Project : Bldg 46A Phase II PSI

Equipment

Pump : QED Bladder				
Water Level Meter : Solinst 100'				
Parameter Meter : YSI 556				
Turbidity Meter: Hach 2100 Q				
Casing Diameter : 4"	Initial Water Level : 28.75' btoc	Final Water Level : 29.37' btoc	Total Well Depth : 52.55' btoc	Purge Volume (Total): 3.6 L

Sample ID : 47WW14	**Analyses :** VOC	**# of Bottles**
QC Samples: FD FS RB MS/MSD	Analyses:	2
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected: VOC	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (mL/min)	Purge Volume (L)	Temp. (°C)	Conductivity (mS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1400	28.88	200	0.6	23.10	0.807	8.32	2.10	-62.7	136
1403	29.08	200	1.2	22.24	0.782	8.37	2.27	-58.3	141
1406	29.15	200	1.8	22.30	0.782	8.37	2.26	-56.9	138
1409	29.21	200	2.4	22.42	0.784	8.37	2.23	-57.7	144
1412	29.30	200	3.0	22.46	0.786	8.37	2.28	-56.5	139
1415	29.37	200	3.6	22.45	0.786	8.37	2.23	-57.8	138
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1420	Sampler's Signature: EN	Checked by : —

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47MW25R	Samplers : ERIC NORTH
Date : 05/28/2020	Project : Bldg 46A Phase II PSI

Equipment

Pump : QED Bladder				
Water Level Meter : Solinst				
Parameter Meter : YSI 556				
Turbidity Meter: Hach 2100Q				
Casing Diameter : 4"	Initial Water Level : 30.12' btoc	Final Water Level : 30.79' btoc	Total Well Depth : 42.89' btoc	Purge Volume (Total): 5.2 L

Sample ID : 47MW25R	**Analyses :** VOC	**# of Bottles**
QC Samples: FD FS RB MS/MSD	Analyses:	2
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected: VOC	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (mL/min)	Purge Volume (L)	Temp. (°C)	Conductivity (mS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1655	30.27	200	1.0	21.13	1.222	7.80	2.29	-55.0	22.7
1658	30.37	200	1.6	20.82	1.210	7.69	1.92	-53.0	6.79
1701	30.41	200	2.2	20.72	1.205	7.62	1.72	-51.6	4.82
1704	30.50	200	2.8	20.49	1.196	7.53	1.61	-50.8	4.26
1707	30.55	200	3.4	20.44	1.194	7.50	1.56	-50.6	5.11
1710	30.62	200	4.0	20.40	1.191	7.50	1.53	-49.8	4.97
1713	30.68	200	4.6	20.39	1.189	7.49	1.68	-49.3	6.50
1716	30.79	200	5.2	20.34	1.187	7.49	1.62	-49.6	6.52
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1720	Sampler's Signature: BN	Checked by : —

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW37	Samplers : BRIC NORTH
Date : 05/28/2020	Project : Bldg 46A Phase II PSE

Equipment

Pump : QED Bladder				
Water Level Meter : Solinst 100'				
Parameter Meter : YSI 556				
Turbidity Meter: Hach 2100Q				
Casing Diameter : 2"	Initial Water Level : 31.16' btoc	Final Water Level : 36.99' btoc	Total Well Depth : 68.87' btoc	Purge Volume (Total): 5.1 L

Sample ID : 47WW37	**Analyses :** VOC	**# of Bottles**
QC Samples: FD FS RB MS/MSD	Analyses:	2
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected: VOC	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (mL/min)	Purge Volume (L)	Temp. (°C)	Conductivity (uS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1600	33.91	200	1.5	20.94	4.014	12.44	4.12	-151.8	47.3
1603	34.96	200	2.1	20.92	4.020	12.43	4.05	-137.2	14.4
1606	35.57	200	2.7	20.94	4.026	12.42	3.92	-125.8	13.7
1609	36.10	200	3.3	20.89	4.029	12.41	3.97	-117.6	12.9
1612	36.47	200	3.9	20.80	4.030	12.41	3.84	-112.5	15.0
1615	36.76	200	4.5	20.78	4.032	12.41	3.87	-110.5	11.2
1618	36.99	200	5.1	20.75	4.029	12.41	3.20	-106.8	16.0
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1630	Sampler's Signature: BN	Checked by : —

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW24	Samplers : BRIC NORTH
Date : 05/21/2020	Project : Bldg 46A Phase II PSI

Equipment

Pump : QED Bladder				
Water Level Meter : Solinst 100'				
Parameter Meter : YSI 556				
Turbidity Meter: Hach 2100Q				
Casing Diameter : 4"	Initial Water Level : 21.44' btoc	Final Water Level : ~~22.13~~ 22.13'	Total Well Depth : 23.93' btoc	Purge Volume (Total): 3.0 L

Sample ID : 47WW24	**Analyses :** VOC	**# of Bottles**
QC Samples: FD FS RB MS/MSD	Analyses:	2
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected: VOC	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (mL/min)	Purge Volume (L)	Temp. (°C)	Conductivity (mS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0815	21.64	150	0.5	18.66	0.329	7.58	7.04	-16.9	36.9
0818	21.68	150	1.0	18.38	0.233	7.12	5.37	-18.8	36.6
0821	21.81	150	1.5	18.28	0.219	6.92	5.25	-17.5	34.2
0824	21.92	150	2.0	18.23	0.215	6.81	5.19	-15.5	35.1
0827	22.00	150	2.5	18.21	0.217	6.80	5.22	-15.9	34.5
0830	22.13	150	3.0	18.20	0.221	6.76	5.24	-15.6	34.1
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 0835	Sampler's Signature: BN	Checked by : —

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW48	Samplers : JM & EN
Date : 07/23/2020	Project : LHAAP

Equipment

Pump :	
Water Level Meter :	Heron Dipper-T, #21747
Parameter Meter :	YSI 556 MPS, #23907
Turbidity Meter:	HACH 2100Q Turbidimeter, #042858

Casing Diameter :	Initial Water Level :	Final Water Level :	Total Well Depth :	Purge Volume (Total):
4"	30.47' BTOC	31.18' BTOC	36.25' BTOC	2475 mL

Sample ID :	Analyses :	# of Bottles
QC Samples: FD FS RB MS/MSD	Analyses: VOCs	3
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected:	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (L/min)	Purge Volume (L)	Temp. (°C)	Conductivity (uS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1320	30.65	75 mL/min	225	24.95	2040	7.02	3.79	76.8	24.8
1323	30.70		450	22.33	1993	6.98	2.85	74.7	21.6
1326	30.81		675	20.99	1987	6.97	2.81	74.7	23.7
1329	30.91		900	20.61	1977	6.94	2.99	76.7	32.6
1332	30.93		1125	20.66	1968	6.94	3.20	77.8	33.5
1335	31.00		1350	20.73	1961	6.95	3.38	79.1	34.7
1338	31.01		1575	20.72	1960	6.95	3.41	79.7	31.7
1341	31.10		1800	20.65	1956	6.94	3.46	80.0	26.1
1344	31.13		2025	20.77	1955	6.94	3.53	80.2	18.8
1347	31.15		2250	20.66	1950	6.95	3.54	79.9	17.6
1350	31.18		2475	20.65	1950	6.95	3.53	79.7	17.6
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1400	Sampler's Signature:	Checked by :

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW49	Samplers : JM & EN
Date : 07/23/2020	Project : LHAAP BLDG. 46A

Equipment

Pump :
Water Level Meter :- HERON DIPPER-T, #21747
Parameter Meter : YSI 556 MPS, #23907
Turbidity Meter: HACH 2100 Q TURBIDIMETER, # 042858

Casing Diameter :	Initial Water Level :	Final Water Level :	Total Well Depth :	Purge Volume (Total):
	30.10' BTOC	30.54' BTOC	31.70' BTOC	1800 ML

Sample ID : 47WW49	Analyses :	# of Bottles
QC Samples: FD FS RB MS/MSD	Analyses: VOCs	3
Full Sample: Y N		
Partial Sample: Y N	Analyses Collected:	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (L/min)	Purge Volume (L)	Temp. (°C)	Conductivity (uS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1430	30.22	100 ML/MIN	300 ML	26.51	2442	6.93	2.68	-116.6	26.3
1433	30.35		600 ML	23.52	2440	6.83	1.54	-111.0	12.1
1436	30.37		900 ML	22.93	2440	6.83	1.16	-110.0	8.87
1439	30.42		1200 ML	22.38	2432	6.83	0.83	-108.9	7.94
1442	30.48		1500 ML	22.30	2426	6.83	0.83	-107.1	6.69
1445	30.54		1800 ML	22.22	2420	6.83	0.82	-105.1	5.76
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1455	Sampler's Signature: JM Moore	Checked by :

Low - Flow Groundwater Sampling Data Sheet

Well ID : LHSMW50	Samplers : ERIC NORTH
Date : 05/29/2020	Project : Bldg 46A Phase II PSI

Equipment

Pump : QED Bladder	
Water Level Meter : Solinst 100'	
Parameter Meter : YSI 556	
Turbidity Meter: Hach 2100Q	

Casing Diameter :	Initial Water Level :	Final Water Level :	Total Well Depth :	Purge Volume (Total):
4"	27.86' btoc	28.35' btoc	30.48' btoc	1.9 L

Sample ID : LHSMW50	**Analyses :** VOC	**# of Bottles**
QC Samples: FD FS RB MS/MSD	Analyses:	2
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected: VOC	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (mL/min)	Purge Volume (L)	Temp. (°C)	Conductivity (mS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0725	28.04	250	0.5	18.23	3.122	7.81	5.25	-22.7	49.8
0728	28.15	250	1.25	18.16	3.121	7.69	4.78	-26.8	60.1
0731	28.36	200	1.9	18.14	3.121	7.67	4.74	-22.7	49.5
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

COLLECT SAMPLE WITHOUT FULL PURGE - AFRAID WILL GO DRY

Sample Time : 0735	Sampler's Signature: EN	Checked by : —

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW51	Samplers : JM & EN
Date : 07/23/2020	Project : LHAAP BLDG. 46A

Equipment

Pump :				
Water Level Meter :- HERON DIPPER-T, #21747				
Parameter Meter : YSI 556 MPS, #23907				
Turbidity Meter: HACH 2100 Q TURBIDIMETER, #042858				
Casing Diameter : 4"	Initial Water Level : 29.68' BTOC	Final Water Level : 29.94' BTOC	Total Well Depth : 50.40' BTOC	Purge Volume (Total): 3000 mL

Sample ID : 47WW51	**Analyses :**	**# of Bottles**
QC Samples: FD FS RB MS/MSD	Analyses: VOCs	3
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected:	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (L/min)	Purge Volume (L)	Temp. (°C)	Conductivity (uS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1620	29.86	100 mL/min	300mL	29.11	3896	6.72	3.50	-2.8	12.3
1623	29.89		600mL	28.09	3942	6.68	1.86	-5.0	6.76
1626	29.89		900mL	27.89	3951	6.66	1.09	-4.7	6.14
1629	29.90		1200mL	27.06	3968	6.64	0.88	-4.5	5.90
1632	29.90		1500mL	26.83	3966	6.64	0.72	-4.1	5.07
1635	29.91		1800mL	26.72	3969	6.64	0.66	-3.7	5.13
1638	29.92		2100mL	26.61	3969	6.64	0.62	-3.4	7.85
1641	29.93		2400mL	26.43	3973	6.64	0.54	-2.3	5.05
1644	29.93		2700mL	26.37	3980	6.64	0.53	-2.4	5.53
1647	29.94		3000mL	26.32	3981	6.65	0.52	-1.7	3.83
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1657	Sampler's Signature:	Checked by :

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47MW52			Samplers : KTM & EN	
Date : 07/23/2020			Project : [illegible] BRIDG. 46A	
Equipment				
Pump :				
Water Level Meter : Heron Dipper-T, # 21747				
Parameter Meter : YSI 556 MPS, # 23907				
Turbidity Meter: HACH 2100 Q Turbidimeter, #042858				
Casing Diameter : 4"	Initial Water Level : 30.98' BTOC	Final Water Level : 31.40' BTOC	Total Well Depth : 36.55' BTOC	Purge Volume (Total): 2100 mL

Sample ID :	Analyses :	# of Bottles
QC Samples: FD FS RB MS/MSD	Analyses: VOCs	3
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected:	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (L/min)	Purge Volume (L)	Temp. (°C)	Conductivity (uS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1120	30.98	100 mL/min	300	24.31	3717	6.91	2.03	121.9	3.14
1123	31.06		600	23.14	3921	6.94	1.84	118.6	2.25
1126	31.13		900	22.06	4126	6.96	1.37	113.8	2.13
1129	31.22		1200	21.70	4129	6.97	1.33	111.5	1.49
1132	31.31		1500	21.27	4134	6.97	1.34	108.2	1.34
1135	31.36		1800	21.02	4129	6.96	1.34	105.9	1.20
1138	31.40		2100	20.88	4120	6.96	1.35	104.3	1.31
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1145	Sampler's Signature: [signature]	Checked by :

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW53	Samplers : J. MOORMAN & E. NORTH
Date : 07/23/2020	Project : LHAAP BLDG. 46A

Equipment

Pump :	
Water Level Meter :	HERON DIPPER-T, #21747
Parameter Meter :	YSI 556 MPS #23907
Turbidity Meter:	HACH 2100 Q TURBIDIMETER, #042858

Casing Diameter :	Initial Water Level :	Final Water Level :	Total Well Depth :	Purge Volume (Total):
4"	31.00' BTOC	31.19' BTOC	50.64' BTOC	2400 mL

Sample ID : 47WW53	**Analyses :**	**# of Bottles**
QC Samples: FD FS RB MS/MSD	Analyses: VOCs	3
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected:	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (L/min)	Purge Volume (L)	Temp. (°C)	Conductivity (uS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1205	31.12	100 mL/min	300	25.21	3420	7.18	5.34	-7.5	8.13
1208	31.15		600	22.42	3486	6.88	0.89	-23.8	5.43
1211	31.19		900	22.30	3490	6.85	0.64	-23.0	6.56
1214	31.19		1200	22.08	3490	6.82	0.45	-29.9	4.75
1217	31.19		1500	21.89	3490	6.82	0.40	-32.1	4.22
1220	31.21		1800	21.84	3488	6.81	0.34	-31.7	4.00
1223	31.19		2100	21.76	3489	6.81	0.33	-28.6	5.36
1226	31.19		2400	21.72	3488	6.81	0.33	-31.6	3.99
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1230	Sampler's Signature: John Moorman	Checked by :

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW54	Samplers : JM & EN
Date : 07/23/2020	Project : LHAAP BLDG. 46A

Equipment

Pump :				
Water Level Meter : HERON DIPPER-T, #21747				
Parameter Meter : YSI 556 MPS, #23907				
Turbidity Meter: HACH 2100 Q TURBIDIMETER, #042858				
Casing Diameter : 2"	Initial Water Level : 30.73' BTOC	Final Water Level : 31.39' BTOC	Total Well Depth : 53.56' BTOC	Purge Volume (Total): 5600 mL

Sample ID : 47WW54	**Analyses :** VOC's	**# of Bottles**
QC Samples: FD FS RB MS/MSD	Analyses:	3
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected:	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (L/min)	Purge Volume (L)	Temp. (°C)	Conductivity (uS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0900	31.38	160 mL/min	800 mL	22.39	3482	7.42	2.04	74.3	65.5
0905	31.31	↓	1600 mL	21.08	3503	7.13	0.66	35.1	8.14
0910	31.40	↓	2400 mL	20.64	3505	7.02	0.45	-76.4	4.67
0915	31.40	↓	3200 mL	20.64	3528	6.95	0.35	-179.9	5.41
0920	31.39	↓	4000 mL	20.64	3532	6.91	0.28	-221.8	5.90
0925	31.40	↓	4800 mL	20.65	3551	6.90	0.28	-228.2	5.32
0930	31.39	↓	5600 mL	20.57	3554	6.90	0.28	-229.4	4.62
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 0935	Sampler's Signature: [signature]	Checked by :

Low - Flow Groundwater Sampling Data Sheet

Well ID : 47WW55	Samplers : JM & EN
Date : 07/23/2020	Project : LHAAP BLDG. 46A

Equipment

Pump :
Water Level Meter :- Heron Dipper-T, #21747
Parameter Meter : YSI 556 MPS, #23907
Turbidity Meter: HACH 2100 Q Turbidimeter # 042858

Casing Diameter :	Initial Water Level :	Final Water Level :	Total Well Depth :	Purge Volume (Total):
4"	30.98' BTOC	31.68' BTOC	35.10' BTOC	2100 mL

Sample ID : 47WW55	**Analyses :**	**# of Bottles**
QC Samples: FD FS RB MS/MSD	Analyses: VOCs	3
Full Sample: (Y) N		
Partial Sample: Y (N)	Analyses Collected:	

Well Conditions, Remarks

Metals Filtered : Y / N

Time	Depth to Water (ft)	Pumping Rate (L/min)	Purge Volume (L)	Temp. (°C)	Conductivity (uS/cm)	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1010	31.10	60 mL/min	300mL	25.63	2601	7.38	8.06	76.7	3.46
1015	31.32		600mL	25.18	2564	7.26	3.66	65.5	3.02
1020	31.43		900mL	24.73	2525	7.23	3.83	65.0	3.53
1025	31.54		1200mL	24.75	2504	7.22	3.85	69.1	3.39
1030	31.57		1500mL	24.79	2500	7.23	4.12	75.3	2.83
1035	31.70		1800mL	24.71	2495	7.22	4.13	76.1	2.90
1040	31.68		2100mL	24.95	2487	7.23	4.13	82.3	2.81
Stabilization Criteria :				± 1°	± 10%	± 0.1	± 10%	± 10	± 10% and under 50 NTUs

Sample Time : 1045	Sampler's Signature:	Checked by :

Attachment 5

Data Validation Report & Raw Analytical Data Package

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DATA VALIDATION AND USABILITY REPORT

VOLATILES by USEPA SW-846 Method 8260C
1,4-DIOXANE by SW-846 Method 8270D-SIM

Project: USACE Longhorn Army Ammunition Plant (LHAAP), Texas
Soils and Groundwaters – November 2019
Project/Task Number: 10097916 Task 8
Sample Data Package: 149511
Laboratory: CT Laboratories, Baraboo, Wisconsin
Sample Matrix: Groundwater and Soil
Sampling Dates: November 2019
Validation Guidelines: Project Quality Assurance Project Plan (QAPP) *(Final Quality Assurance Project Plan for Longhorn Army Ammunition Plant, Karnack, Texas [July 2014]*); United States Environmental Protection Agency (USEPA) *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, 3rd edition (SW-846), *General Data Validation Guidelines* (United States Department of Defense [DoD] Environmental Data Quality Workgroup [EDQW], February 09, 2018); and professional judgment
Validation Level: Stage 2BVM (100% of data) and Stage 3VM (10% of data)
The IDW water was not validated.
Data Reviewer: Lynn K. Lutz, HDR

Sample ID	Matrix	Date Collected	Lab ID (Data Package)	VOCs	1,4-Dioxane
DPT-001 (27-28)	Soil	05-Nov-2019	356176 (149511)	X	
DPT-001 (31-32)	Soil	05-Nov-2019	356177 (149511)	X	
DPT-001 (38-39)	Soil	05-Nov-2019	356178 (149511)	X	
DPT-001	GW	07-Nov-2019	356214 (149511)	X	X
DPT-002 (26-27)	Soil	04-Nov-2019	356170 (149511)	X	
DPT-002 (32-33)	Soil	04-Nov-2019	356171 (149511)	X	
DPT-002	GW	06-Nov-2019	356207 (149511)	X	
DPT-002 MS	GW	06-Nov-2019	356207 (149511)	X	
DPT-002 MSD	GW	06-Nov-2019	356207 (149511)	X	
DPT-003 (29-30)	Soil	04-Nov-2019	356173 (149511)	X	
DPT-003 (35-36)	Soil	04-Nov-2019	356174 (149511)	X	
DPT-003 (39-40)	Soil	04-Nov-2019	356175 (149511)	X	
DPT-003	GW	06-Nov-2019	356209 (149511)	X	
DPT-004 (28-29)	Soil	06-Nov-2019	356194 (149511)	X	
DPT-004 (30-31)	Soil	06-Nov-2019	356195 (149511)	X	
DPT-004 (32-33)	Soil	06-Nov-2019	356196 (149511)	X	
DPT-004	GW	06-Nov-2019	356210 (149511)	X	
DPT-005 (24-25)	Soil	05-Nov-2019	356187 (149511)	X	
DPT-005 (27-28)	Soil	05-Nov-2019	356188 (149511)	X	
DPT-005 (31-32)	Soil	05-Nov-2019	356189 (149511)	X	
DPT-005	GW	07-Nov-2019	356215 (149511)	X	X
DPT-006 (20-21)	Soil	05-Nov-2019	356183 (149511)	X	
DPT-006 (27-28)	Soil	05-Nov-2019	356184 (149511)	X	
DPT-006 (30-31)	Soil	05-Nov-2019	356185 (149511)	X	

Sample ID	Matrix	Date Collected	Lab ID (Data Package)	VOCs	1,4-Dioxane
DPT-006 (30-31) MS	Soil	05-Nov-2019	356185 (149511)	X	
DPT-006 (30-31) MSD	Soil	05-Nov-2019	356185 (149511)	X	
DPT-006	GW	06-Nov-2019	356212 (149511)	X	
DPT-007 (27-28)	Soil	05-Nov-2019	356191 (149511)	X	
DPT-007 (29-30)	Soil	05-Nov-2019	356192 (149511)	X	
DPT-007 (31-32)	Soil	05-Nov-2019	356193 (149511)	X	
DPT-007	GW	06-Nov-2019	356213 (149511)	X	
DPT-008 (26-27)	Soil	06-Nov-2019	356197 (149511)	X	
DPT-008 (27-28)	Soil	06-Nov-2019	356198 (149511)	X	
DPT-008 (29-30)	Soil	06-Nov-2019	356199 (149511)	X	
DPT-008	GW	07-Nov-2019	356216 (149511)	X	
DPT-009 (24-25)	Soil	05-Nov-2019	356179 (149511)	X	
DPT-009 (28-29)	Soil	05-Nov-2019	356180 (149511)	X	
DPT-009 (31-32)	Soil	05-Nov-2019	356181 (149511)	X	
DPT-009 (31-32) MS	Soil	05-Nov-2019	356181 (149511)	X	
DPT-009 (31-32) MSD	Soil	05-Nov-2019	356181 (149511)	X	
DPT-009	GW	06-Nov-2019	356211 (149511)	X	
DPT-010 (23-24)	Soil	06-Nov-2019	356200 (149511)	X	
DPT-010 (28-29)	Soil	06-Nov-2019	356201 (149511)	X	
DPT-010 (32-33)	Soil	06-Nov-2019	356202 (149511)	X	
DPT-010	GW	07-Nov-2019	356217 (149511)	X	X
DPT-011 (22-23)	Soil	06-Nov-2019	356204 (149511)	X	
DPT-011 (27-28)	Soil	06-Nov-2019	356205 (149511)	X	
DPT-011 (31-32)	Soil	06-Nov-2019	356206 (149511)	X	
DPT-011	GW	07-Nov-2019	356221 (149511)	X	
47WW09	GW	07-Nov-2019	356222 (149511)	X	X
47WW25R-35	GW	08-Nov-2019	356227 (149511)	X	X
47WW25R-35 MS	GW	08-Nov-2019	356227 (149511)		X
47WW25R-35 MSD	GW	08-Nov-2019	356227 (149511)		X
47WW25R-38	GW	08-Nov-2019	356228 (149511)	X	X
47WW37	GW	08-Nov-2019	356224 (149511)	X	
DUP-001	Soil	05-Nov-2019	356182 (149511)	X	
DUP-002	Soil	05-Nov-2019	356186 (149511)	X	
DUP-003	Soil	06-Nov-2019	356203 (149511)	X	
DUP-004	GW	06-Nov-2019	356208 (149511)	X	
DUP-005	GW	08-Nov-2019	356225 (149511)	X	
DUP-006	GW	08-Nov-2019	356226 (149511)		X
TB-001	QC Water	04-Nov-2019	356164 (149511)	X	
TB-002	QC Water	04-Nov-2019	356229 (149511)	X	
TB-003	QC Water	04-Nov-2019	356230 (149511)	X	
EB-001	QC Water	05-Nov-2019	356190 (149511)	X	
EB-002	QC Water	06-Nov-2019	356220 (149511)	X	
EB-003	QC Water	08-Nov-2019	356223 (149511)	X	X
46ADPT-TCLP	IDW Water	07-Nov-2019	356218 (149511)	TCLP	
			356219 (149511)	Hazard	

SUMMARY

All laboratory data were acceptable with qualification. The IDW water was not validated.

I. SAMPLE RECEIPT / CHAIN OF CUSTODY

Samples were received within the correct temperature range of 0-6°C. The chains of custody (COCs) were filled out. No qualification was required.

II. HOLDING TIMES AND PRESERVATION

Holding time and preservation criteria were generally met except as discussed below.

VOCs in GW: Samples were analyzed within 14 days of collection. All samples were at pH <2 at the time of analysis. No qualification was required.

VOCs in Soil: Samples were collected using Terracore samplers and preserved in water with sodium bisulfate (two vials) and methanol (one vial). Samples were analyzed within 14 days of collection.

1,4-Dioxane: Samples were extracted within seven days of collection and analyzed within 40 days of extraction. No qualification was required.

III. INSTRUMENT PERFORMANCE

VOCs in GW: GC/MS BFB tuning criteria were met. Sample analysis began within 12 hours of BFB analysis. No qualification was required.

VOCs in Soil: GC/MS BFB tuning criteria were met. Sample analysis began within 12 hours of BFB analysis. No qualification was required.

1,4-Dioxane: GC/MS DFTPP tuning criteria were met. Sample analysis began within 12 hours of DFTPP analysis. No qualification was required.

IV. INSTRUMENT CALIBRATION

INITIAL CALIBRATIONS

VOCs in GW: The calibration curve included a standard at or below the LOQ. Calibration requirements were met. No qualification was required.

VOCs in Soil: The calibration curve included a standard at or below the LOQ. Calibration requirements were met. No qualification was required.

1,4-Dioxane: The calibration curve included a standard at or below the LOQ. Calibration requirements were met. No qualification was required.

SECOND SOURCE STANDARDS (ICV)

VOCs in GW: All reported analytes had percent difference (%D) values less than 20% except bromomethane in one ICV, with a %D of 20.5%. No qualification was required.

VOCs in Soil: All reported analytes had %D values less than 20%. No qualification was required.

1,4-Dioxane: 1,4-Dioxane had %D values less than 20%. No qualification was required.

CONTINUING CALIBRATIONS

VOCs in GW: Several analytes had %D values above the 20% limit, but all associated sample results were non-detect and no qualification was required.

VOCs in Soil: Several analytes had %D values above the 20% limit (for opening CCVs) or the 50% limit (for closing CCVs) and associated samples were qualified as noted in the table.

CCV	Analyte	%D	Associated Samples	Qualifier
11/13/19 07:43	Bromomethane	-26%	All soils except: DPT-001 (27-28) DPT-002 (26-27)	UJ
11/14/19 08:19	Bromomethane	-32%	DPT-002 (32-33) DPT-002 (40-41) DPT-003 (29-30) DPT-009 (24-25)	

1,4-Dioxane: 1,4-Dioxane had %D values less than 20%. No qualification was required.

V. BLANKS

METHOD BLANKS (MB)

Target analytes were not detected in the method blanks except as noted below.

VOCs in GW: A trace level of p-isopropyltoluene was detected in one water blank (166500), but this analyte was non-detect in all associated samples and no qualification was required.

VOCs in Soil: VOCs were not detected in the method blanks. No qualification was required.

1,4-Dioxane: 1,4-Dioxane was not detected in the method blanks. No qualification was required.

TRIP BLANKS (TB)

VOCs in GW: Acetone was detected at trace levels in two trip blanks (TB-002 and TB-003). Acetone was only detected in one GW sample (DPT-009) at a trace level and has been qualified as estimated with a possible high bias (J+).

A trace level of p-isopropyltoluene was detected in one trip blank (TB-001), but this analyte was non-detect in all associated samples and no qualification was required.

A trace level of methylene chloride was detected in one trip blank (TB-003), but this analyte was non-detect in all associated samples and no qualification was required.

VOCs in Soil: Acetone was detected at trace levels in two trip blanks (TB-002 and TB-003). Acetone was detected in several associated soil samples (DPT-001 [31-32], DPT-003 [29-30], DPT-003 [39-40], DPT-004 [32-33], DPT-009 [24-25], and DUP-001) at trace levels and has been qualified as estimated with a possible high bias (J+).

A trace level of p-isopropyltoluene was detected in one trip blank (TB-001), but this analyte was non-detect in all associated samples and no qualification was required.

A trace level of methylene chloride was detected in one trip blank (TB-003), but this analyte was non-detect in all associated samples and no qualification was required.

1,4-Dioxane: Not applicable.

EQUIPMENT RINSE BLANKS (EB)

VOCs in GW: Acetone was detected at trace levels in all three EBs. Acetone was only detected in one GW sample (DPT-009) at a trace level and has been qualified as non-detect estimated (UJ).

VOCs in Soil: Acetone was detected at trace levels in all three EBs. Acetone was detected in several associated soil samples (DPT-001 [31-32], DPT-003 [29-30], DPT-003 [39-40], DPT-004 [32-33], DPT-009 [24-25], and DUP-001) at trace levels and has been qualified as estimated with a possible high bias (J+).

1,4-Dioxane: 1,4-Dioxane was not detected in the EB. No qualification was required.

VI. LABORATORY CONTROL SAMPLES (LCS)

VOCs in GW: LCS recoveries were within control limits. No qualification was required.

VOCs in Soil: LCS recoveries were within control limits. No qualification was required. LCS recoveries were within control limits. No qualification was required.

1,4-Dioxane: LCS recoveries were within control limits. No qualification was required.

VII. SURROGATES

All surrogate recoveries were within control limits except as noted below.

VOCs in GW: Surrogate recoveries were within control limits. No qualification was required.

VOCs in Soil: Surrogate recoveries were within control limits. No qualification was required.

1,4-Dioxane: The recoveries of the surrogate 1,4-dioxane-d8 in samples DUP-006 and 47WW25R-38 at 49% and 42% respectively were below the control limits of 50-150%. The 1,4-dioxane results in these samples were qualified as non-detect estimated (UJ).

VIII. MATRIX SPIKE / MATRIX SPIKE DUPLICATE (MS/MSD)

VOCs in GW: Samples DPT-002 and 47WW25R-35 were designated on the COC for MS/MSD analysis. Some results were outside control limits and the parent samples required qualification as shown below.

Parent Sample	Analyte	Recoveries (RPD)	Control Limits	Qualifier
DPT-002	n-Butylbenzene	OK, 129%	75-128%	None - ND
	sec-Butylbenzene	128%, 130%	77-126%	None – ND

Parent Sample	Analyte	Recoveries (RPD)	Control Limits	Qualifier
	Trichloroethene	150%, 61% (RPD 23%)	79-123% (RPD 20%)	J
47WW25R-35	cis-1,2-Dichloroethene	OK, 26% (RPD 163%)	78-123% (RPD 20%)	J

VOCs in Soil: Samples DPT-009 (31-32) and DPT-006 (30-31) were designated on the COC for MS/MSD analysis. Some results were outside control limits and the parent samples required qualification as shown below.

Parent Sample	Analyte	Recoveries (RPD)	Control Limits	Qualifier
DPT-009 (31-32)	1,2,3-Trichlorobenzene	24%, 63% RPD 90%	66-130% RPD 20%	UJ
	1,2,3-Trichloropropane	RPD 25%	RPD 20%	J
	Naphthalene	20%, 56% RPD 90%	62-129% RPD 20%	UJ
	1,2,4-Trichlorobenzene	33%, OK RPD 77%	67-129% RPD 20%	UJ
	1,2-Dibromo-3-chloropropane (DBCP)	51%, OK RPD 68%	61-132% RPD 20%	UJ
	1,2-Dichlorobenzene	61%, OK RPD 45%	78-121% RPD 20%	UJ
	1,3-Dichlorobenzene	66%, OK RPD 39%	77-121% RPD 20%	UJ
	1,4-Dichlorobenzene	67%, OK RPD 40%	75-120% RPD 20%	UJ
	Hexachlorobutadiene	49%, OK RPD 76%	61-135% RPD 20%	UJ
	Styrene	73%, OK RPD 23%	76-124% RPD 20%	UJ
DPT-006 (30-31)	1,2,3-Trichlorobenzene	46%, 52%	66-130%	UJ
	1,2,4-Trichlorobenzene	48%, 57%	67-129%	UJ
	1,2-Dichlorobenzene	75%, OK	78-121%	UJ
	1,3-Dichlorobenzene	75%, OK	77-121%	UJ
	Naphthalene	43%, 51%	62-129%	UJ
	1,2,3-Trichloropropane	OK, 131%	73-125%	None – ND
	Methylene chloride	OK, 137%	70-128%	None - ND

1,4-Dioxane: 47WW25R-35 was designated on the COC for MS/MSD analysis. The recoveries and RPD were within control limits. No qualification was required.

IX. DUPLICATES

FIELD DUPLICATES

Field duplicate samples were collected as identified in the following table.

Field Duplicate Sample	Parent Sample	Matrix - Analysis
Dup-001	DPT-009 (31-32)	Soil – VOCs
Dup-002	DPT-006 (30–31)	Soil – VOCs

Field Duplicate Sample	Parent Sample	Matrix - Analysis
Dup-003	DPT-010 (32-33)	Soil – VOCs
Dup-004	DPT-002	GW – VOCs
Dup-005	47WW25R-35	GW – VOCs
Dup-006	47WW25R-35	GW – 1,4-Dioxane

RPDs were within control limits except as noted below.

VOCs in GW: RPDs were within control limits. No qualification was required.

VOCs in Soil: In the DPT-010 (32-33) / DUP-003 pair, vinyl chloride had an RPD of 31%, above the control limit of 20%. This analyte in these two samples has been qualified as estimated (J).

1,4-Dioxane: The target analyte was non-detect in both samples. No qualification was required.

LABORATORY DUPLICATES

VOCs in GW: Not applicable.

VOCs in Soil: Not applicable.

1,4-Dioxane: Not applicable.

X. INTERNAL STANDARDS (ISTD)

All ISTD criteria were met except as noted below.

VOCs in GW: All ISTD criteria were met. No qualification was required.

VOCs in Soil: All ISTD criteria were met. No qualification was required.

1,4-Dioxane: All ISTD criteria were met. No qualification was required.

XI. LIMITS OF QUANTITATION (LOQs), LIMITS OF DETECTION (LODs), AND DETECTION LIMITS (DLs)

The LOQs should be at or below the project action limits (PALs) as listed in the QAPP.

VOCs in GW: The LOQs were generally at or below the PALs listed in the QAPP. The chart below shows the LOQs that were above PALs.

Analyte	LOQ (µg/L)	LOD (µg/L)	DL (µg/L)	MCL (µg/L)	TCEQ GW-Ind MSC (µg/L)
1,2,3-Trichloropropane	1.0	0.60	0.30	--	0.041
1,2-Dibromo-3-chloropropane (DBCP)	1.0	0.60	0.25	0.2	0.2
1,2-Dibromoethane (EDB)	1.0	0.60	0.30	--	0.05

VOCs in Soil: All LOQs were below the PALs listed in the QAPP.

1,4-Dioxane: The LOQ of 2.0 µg/L was below the PAL of 9.1 µg/L (the TRRP $^{GW}GW_{Ing}$ PCL).

XII. SAMPLE RESULTS / TRANSCRIPTION VERIFICATION

Transcription between the data package and the EDDs was verified. Non-detect sample results were reported to the LOD, but detections below the LOD were reported. Sample results detected between the DL and LOQ were qualified as estimated (J).

VOCs in GW: No issues.

VOCs in Soil: No issues.

1,4-Dioxane: No issues.

XIII. DATA USABILITY

Data were usable as discussed below.

VOCs in GW: No data were rejected. Data required minimal qualification. All data are usable as qualified.

VOCs in Soil: No data were rejected. Data required minimal qualification. All data are usable as qualified.

1,4-Dioxane: No data were rejected. Data required minimal qualification. All data are usable as qualified.

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ANALYTICAL SUMMARY REPORT

This report at a minimum contains the following information:

Analytical Report of Test Results
Description of QC Qualifiers
Chain of Custody (copy)
Quality Control Summary (if applicable)
Case Narrative (if applicable)
Correspondence with Client (if applicable)

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for parameters where accreditation is required or available, unless otherwise noted in the case narrative.

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

ANALYTICAL SAMPLE DATA

HDR, INC
LYNN LUTZ
9781 S. MERIDIAN BLVD.
SUITE 400
ENGLEWOOD, CO 80112

Project Name: LONGHORN
Project Phase:
Project #: 10097916
Folder #: 149511
Purchase Order #:
Contract #: 3320

Arrival Temperature: 2.9
Report Date: 12/06/2019
Date Received: 11/11/2019
Reprint Date: 12/06/2019

CT LAB#: 356164 Sample Description: TB-001 Client Sample #: Sampled: 11/04/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.60	ug/L	0.28	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,2-Dichloroethane	<0.60	ug/L	0.24	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,2-Dichloropropane	<0.60	ug/L	0.18	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356164 Sample Description: TB-001 Client Sample #: Sampled: 11/04/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,3-Dichloropropane	<0.30	ug/L	0.17	0.30	0.60	0.60	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/L	0.70	2.0	4.0	4.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
2,2-Dichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
2-Butanone	<6.0	ug/L	2.6	6.0	10	10	1.00	U		11/14/19 14:44	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
2-Hexanone	<6.0	ug/L	3.0	6.0	10	10	1.00	U		11/14/19 14:44	RLD	EPA 8260C
4-Chlorotoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	2.2	6.0	10	10	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Acetone	***4.7***	ug/L	4.0	10	20	20	1.00	J		11/14/19 14:44	RLD	EPA 8260C
Benzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Bromobenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Bromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Bromodichloromethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Bromoform	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Bromomethane	<2.0	ug/L	0.90	2.0	4.0	4.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/L	0.60	2.0	4.0	4.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Chlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Chloroethane	<1.0	ug/L	0.50	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Chloromethane	<1.0	ug/L	0.60	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.30	ug/L	0.16	0.30	0.60	0.60	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Dibromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.22	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356164 Sample Description: TB-001 Client Sample #: Sampled: 11/04/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dichlorodifluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Hexachlorobutadiene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Isopropylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	0.70	1.2	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Methylene chloride	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
n-Butylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
n-Propylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Naphthalene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
o-Xylene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
p-Isopropyltoluene	***0.36***	ug/L	0.30	0.60	1.0	1.0	1.00	J B		11/14/19 14:44	RLD	EPA 8260C
sec-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U Z		11/14/19 14:44	RLD	EPA 8260C
Styrene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
tert-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Tetrachloroethene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Toluene	<0.60	ug/L	0.21	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Trichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Trichlorofluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Vinyl Acetate	<10	ug/L	5.0	10	20	20	1.00	U		11/14/19 14:44	RLD	EPA 8260C
Vinyl chloride	<0.30	ug/L	0.14	0.30	0.60	0.60	1.00	U		11/14/19 14:44	RLD	EPA 8260C
1,2 Dichloroethane-d4	99	% Recovery	81			118	1.00			11/14/19 14:44	RLD	EPA 8260C
Bromofluorobenzene	101	% Recovery	85			114	1.00			11/14/19 14:44	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/14/19 14:44	RLD	EPA 8260C
Dibromofluoromethane	97	% Recovery	80			119	1.00			11/14/19 14:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356170 Sample Description: DPT-002 (26-27) Client Sample #: Sampled: 11/04/2019 1400

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***93.2***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.34	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.34	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.56	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,1-Dichloroethane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,1-Dichloroethene	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.56	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.2	ug/kg	0.90	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.2	ug/kg	1.5	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,2-Dibromoethane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.56	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,2-Dichloropropane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.2	ug/kg	1.1	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
2-Butanone	<22	ug/kg	11	22	45	45	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
2-Chlorotoluene	<2.2	ug/kg	1.1	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356170 Sample Description: DPT-002 (26-27) Client Sample #: Sampled: 11/04/2019 1400

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<22	ug/kg	12	22	45	45	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
4-Chlorotoluene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
4-Methyl-2-pentanone	<22	ug/kg	11	22	45	45	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Acetone	<22	ug/kg	11	22	45	45	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Benzene	<1.1	ug/kg	0.34	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.56	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Bromoform	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Bromomethane	<2.2	ug/kg	0.79	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Carbon disulfide	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.34	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.56	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Chloromethane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
cis-1,2-Dichloroethene	***0.561***	ug/kg	0.45	1.1	2.2	2.2	1.00	J	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.34	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Dibromomethane	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Dichlorodifluoromethane	<2.2	ug/kg	1.1	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Hexachlorobutadiene	<2.2	ug/kg	1.1	2.2	4.5	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.34	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
m & p-Xylene	<2.2	ug/kg	0.79	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Methylene chloride	<2.2	ug/kg	1.9	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
n-Butylbenzene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
n-Propylbenzene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356170 Sample Description: DPT-002 (26-27) Client Sample #: Sampled: 11/04/2019 1400

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<2.2	ug/kg	1.1	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
p-Isopropyltoluene	<2.2	ug/kg	1.1	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
sec-Butylbenzene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Styrene	<1.1	ug/kg	0.34	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
tert-Butylbenzene	<2.2	ug/kg	1.0	2.2	4.5	4.5	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Toluene	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.45	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Trichloroethene	***16.5***	ug/kg	0.34	1.1	2.2	2.2	1.00		11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.56	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Vinyl Acetate	<22	ug/kg	13	22	45	45	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Vinyl chloride	<1.1	ug/kg	0.56	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	78			119	1.00		11/12/2019 10:15	11/12/19 18:46	RLD	EPA 8260C

CT LAB#: 356171 Sample Description: DPT-002 (32-33) Client Sample #: Sampled: 11/04/2019 1410

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***85.6***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356171 Sample Description: DPT-002 (32-33) Client Sample #: Sampled: 11/04/2019 1410

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.0	ug/kg	0.51	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,1-Dichloroethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,1-Dichloropropene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.0	ug/kg	0.51	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.1	ug/kg	0.82	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.1	ug/kg	1.3	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,2-Dibromoethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,2-Dichloroethane	<1.0	ug/kg	0.51	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,2-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,3-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
2,2-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
2-Butanone	<21	ug/kg	10	21	41	41	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
2-Chlorotoluene	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
2-Hexanone	<21	ug/kg	11	21	41	41	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
4-Chlorotoluene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
4-Methyl-2-pentanone	<21	ug/kg	10	21	41	41	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Acetone	<21	ug/kg	10	21	41	41	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356171 Sample Description: DPT-002 (32-33) Client Sample #: Sampled: 11/04/2019 1410

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Bromobenzene	<1.0	ug/kg	0.51	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Bromochloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Bromodichloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Bromoform	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Bromomethane	<2.1	ug/kg	0.72	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Carbon disulfide	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Carbon tetrachloride	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Chlorobenzene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Chloroethane	<1.0	ug/kg	0.51	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Chloroform	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Chloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
cis-1,2-Dichloroethene	***1.64***	ug/kg	0.41	1.0	2.1	2.1	1.00	J	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Dibromochloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Dibromomethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Dichlorodifluoromethane	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Ethylbenzene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Hexachlorobutadiene	<2.1	ug/kg	1.0	2.1	4.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Isopropylbenzene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
m & p-Xylene	<2.1	ug/kg	0.72	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Methylene chloride	<2.1	ug/kg	1.7	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
n-Butylbenzene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
n-Propylbenzene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Naphthalene	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
o-Xylene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
p-Isopropyltoluene	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
sec-Butylbenzene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356171 Sample Description: DPT-002 (32-33) Client Sample #: Sampled: 11/04/2019 1410

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Styrene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
tert-Butylbenzene	<2.1	ug/kg	0.92	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Tetrachloroethene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Toluene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Trichloroethene	***3.90***	ug/kg	0.31	1.0	2.1	2.1	1.00		11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Trichlorofluoromethane	<1.0	ug/kg	0.51	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Vinyl Acetate	<21	ug/kg	12	21	41	41	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Vinyl chloride	<1.0	ug/kg	0.51	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
1,2 Dichloroethane-d4	115	% Recovery	71			136	1.00		11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Bromofluorobenzene	105	% Recovery	79			119	1.00		11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:15	11/12/19 19:15	RLD	EPA 8260C

CT LAB#: 356172 Sample Description: DPT-002 (40-41) Client Sample #: Sampled: 11/04/2019 1420

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***82.1***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.3	ug/kg	0.38	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.3	ug/kg	0.38	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.3	ug/kg	0.63	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356172 Sample Description: DPT-002 (40-41) Client Sample #: Sampled: 11/04/2019 1420

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,1-Dichloroethene	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,1-Dichloropropene	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.3	ug/kg	0.63	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.5	ug/kg	1.0	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.5	ug/kg	1.6	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,2-Dibromoethane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,2-Dichloroethane	<1.3	ug/kg	0.63	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,2-Dichloropropane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,3-Dichloropropane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.5	ug/kg	1.3	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
2,2-Dichloropropane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
2-Butanone	<25	ug/kg	13	25	50	50	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
2-Chlorotoluene	<2.5	ug/kg	1.3	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
2-Hexanone	<25	ug/kg	14	25	50	50	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
4-Chlorotoluene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
4-Methyl-2-pentanone	<25	ug/kg	13	25	50	50	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Acetone	<25	ug/kg	13	25	50	50	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Benzene	<1.3	ug/kg	0.38	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Bromobenzene	<1.3	ug/kg	0.63	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Bromochloromethane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Bromodichloromethane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356172 Sample Description: DPT-002 (40-41) Client Sample #: Sampled: 11/04/2019 1420

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromoform	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Bromomethane	<2.5	ug/kg	0.88	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Carbon disulfide	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Carbon tetrachloride	<1.3	ug/kg	0.38	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Chlorobenzene	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Chloroethane	<1.3	ug/kg	0.63	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Chloroform	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Chloromethane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
cis-1,2-Dichloroethene	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.3	ug/kg	0.38	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Dibromochloromethane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Dibromomethane	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Dichlorodifluoromethane	<2.5	ug/kg	1.3	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Ethylbenzene	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Hexachlorobutadiene	<2.5	ug/kg	1.3	2.5	5.0	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Isopropylbenzene	<1.3	ug/kg	0.38	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
m & p-Xylene	<2.5	ug/kg	0.88	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Methylene chloride	<2.5	ug/kg	2.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
n-Butylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
n-Propylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Naphthalene	<2.5	ug/kg	1.3	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
o-Xylene	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
p-Isopropyltoluene	<2.5	ug/kg	1.3	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
sec-Butylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Styrene	<1.3	ug/kg	0.38	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
tert-Butylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Tetrachloroethene	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Toluene	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356172 Sample Description: DPT-002 (40-41) Client Sample #: Sampled: 11/04/2019 1420

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.3	ug/kg	0.50	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Trichloroethene	<1.3	ug/kg	0.38	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Trichlorofluoromethane	<1.3	ug/kg	0.63	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Vinyl Acetate	<25	ug/kg	15	25	50	50	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Vinyl chloride	<1.3	ug/kg	0.63	1.3	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
1,2 Dichloroethane-d4	105	% Recovery	71			136	1.00		11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Bromofluorobenzene	110	% Recovery	79			119	1.00		11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:15	11/12/19 19:44	RLD	EPA 8260C

CT LAB#: 356173 Sample Description: DPT-003 (29-30) Client Sample #: Sampled: 11/04/2019 1540

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***79.0***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.2	ug/kg	0.35	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.2	ug/kg	0.35	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.2	ug/kg	0.58	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,1-Dichloroethane	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,1-Dichloroethene	***8.94***	ug/kg	0.46	1.2	2.3	2.3	1.00		11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,1-Dichloropropene	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356173 Sample Description: DPT-003 (29-30) Client Sample #: Sampled: 11/04/2019 1540

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichloropropane	<1.2	ug/kg	0.58	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.3	ug/kg	0.93	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.3	ug/kg	1.5	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,2-Dibromoethane	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,2-Dichloroethane	<1.2	ug/kg	0.58	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,2-Dichloropropane	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,3-Dichloropropane	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.3	ug/kg	1.2	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
2,2-Dichloropropane	***0.929***	ug/kg	0.46	1.2	2.3	2.3	1.00	J	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
2-Butanone	<23	ug/kg	12	23	46	46	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
2-Chlorotoluene	<2.3	ug/kg	1.2	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
2-Hexanone	<23	ug/kg	13	23	46	46	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
4-Chlorotoluene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
4-Methyl-2-pentanone	<23	ug/kg	12	23	46	46	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Acetone	***12.8***	ug/kg	12	23	46	46	1.00	J	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Benzene	<1.2	ug/kg	0.35	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Bromobenzene	<1.2	ug/kg	0.58	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Bromochloromethane	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Bromodichloromethane	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Bromoform	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Bromomethane	<2.3	ug/kg	0.81	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Carbon disulfide	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Carbon tetrachloride	<1.2	ug/kg	0.35	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356173 Sample Description: DPT-003 (29-30) Client Sample #: Sampled: 11/04/2019 1540

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chlorobenzene	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Chloroethane	<1.2	ug/kg	0.58	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Chloroform	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Chloromethane	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
cis-1,2-Dichloroethene	***31.5***	ug/kg	0.46	1.2	2.3	2.3	1.00		11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.2	ug/kg	0.35	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Dibromochloromethane	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Dibromomethane	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Dichlorodifluoromethane	<2.3	ug/kg	1.2	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Ethylbenzene	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Hexachlorobutadiene	<2.3	ug/kg	1.2	2.3	4.6	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Isopropylbenzene	<1.2	ug/kg	0.35	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
m & p-Xylene	<2.3	ug/kg	0.81	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Methylene chloride	<2.3	ug/kg	2.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
n-Butylbenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
n-Propylbenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Naphthalene	<2.3	ug/kg	1.2	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
o-Xylene	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
p-Isopropyltoluene	<2.3	ug/kg	1.2	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
sec-Butylbenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Styrene	<1.2	ug/kg	0.35	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
tert-Butylbenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Tetrachloroethene	***1.05***	ug/kg	0.46	1.2	2.3	2.3	1.00	J	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Toluene	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.2	ug/kg	0.46	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Trichloroethene	***15800***	ug/kg	110	300	600	600	5.00		11/12/2019 10:15	11/18/19 18:18	DGS	EPA 8260C
Trichlorofluoromethane	<1.2	ug/kg	0.58	1.2	2.3	2.3	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356173 Sample Description: DPT-003 (29-30) Client Sample #: Sampled: 11/04/2019 1540

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl Acetate	<23	ug/kg	14	23	46	46	1.00	U	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Vinyl chloride	***0.581***	ug/kg	0.58	1.2	2.3	2.3	1.00	J	11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
d8-Toluene	95	% Recovery	85			116	1.00		11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	78			119	1.00		11/12/2019 10:15	11/12/19 20:13	RLD	EPA 8260C

CT LAB#: 356174 Sample Description: DPT-003 (35-36) Client Sample #: Sampled: 11/04/2019 1550

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***84.3***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<0.94	ug/kg	0.28	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.94	ug/kg	0.28	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.94	ug/kg	0.47	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,1-Dichloroethane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,1-Dichloroethene	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,1-Dichloropropene	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.94	ug/kg	0.47	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.9	ug/kg	0.75	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.9	ug/kg	1.2	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356174 Sample Description: DPT-003 (35-36) Client Sample #: Sampled: 11/04/2019 1550

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,2-Dichloroethane	<0.94	ug/kg	0.47	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,2-Dichloropropane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,3-Dichloropropane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.9	ug/kg	0.94	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
2,2-Dichloropropane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
2-Butanone	<19	ug/kg	9.4	19	38	38	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
2-Chlorotoluene	<1.9	ug/kg	0.94	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
2-Hexanone	<19	ug/kg	10	19	38	38	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
4-Chlorotoluene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
4-Methyl-2-pentanone	<19	ug/kg	9.4	19	38	38	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Acetone	<19	ug/kg	9.4	19	38	38	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Benzene	<0.94	ug/kg	0.28	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Bromobenzene	<0.94	ug/kg	0.47	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Bromochloromethane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Bromodichloromethane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Bromoform	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Bromomethane	<1.9	ug/kg	0.66	1.9	3.8	3.8	1.00	U Z	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Carbon disulfide	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Carbon tetrachloride	<0.94	ug/kg	0.28	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Chlorobenzene	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Chloroethane	<0.94	ug/kg	0.47	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Chloroform	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Chloromethane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356174 Sample Description: DPT-003 (35-36) Client Sample #: Sampled: 11/04/2019 1550

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.94	ug/kg	0.28	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Dibromochloromethane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Dibromomethane	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Dichlorodifluoromethane	<1.9	ug/kg	0.94	1.9	3.8	3.8	1.00	U Z	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Ethylbenzene	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Hexachlorobutadiene	<1.9	ug/kg	0.94	1.9	3.8	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Isopropylbenzene	<0.94	ug/kg	0.28	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
m & p-Xylene	<1.9	ug/kg	0.66	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Methylene chloride	<1.9	ug/kg	1.6	1.9	3.8	3.8	1.00	U Z	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
n-Butylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
n-Propylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Naphthalene	<1.9	ug/kg	0.94	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
o-Xylene	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
p-Isopropyltoluene	<1.9	ug/kg	0.94	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
sec-Butylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Styrene	<0.94	ug/kg	0.28	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
tert-Butylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Tetrachloroethene	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Toluene	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.94	ug/kg	0.38	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Trichloroethene	<0.94	ug/kg	0.28	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Trichlorofluoromethane	<0.94	ug/kg	0.47	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Vinyl Acetate	<19	ug/kg	11	19	38	38	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Vinyl chloride	<0.94	ug/kg	0.47	0.94	1.9	1.9	1.00	U	11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Bromofluorobenzene	110	% Recovery	79			119	1.00		11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356174 Sample Description: DPT-003 (35-36) Client Sample #: Sampled: 11/04/2019 1550

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C
Dibromofluoromethane	110	% Recovery	78			119	1.00		11/12/2019 10:15	11/14/19 11:14	RLD	EPA 8260C

CT LAB#: 356175 Sample Description: DPT-003 (39-40) Client Sample #: Sampled: 11/04/2019 1600

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***82.3***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,1-Dichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,1-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.1	ug/kg	0.85	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.1	ug/kg	1.4	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,2-Dibromoethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356175 Sample Description: DPT-003 (39-40) Client Sample #: Sampled: 11/04/2019 1600

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
2-Butanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
2-Chlorotoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
2-Hexanone	<21	ug/kg	12	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
4-Chlorotoluene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
4-Methyl-2-pentanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Acetone	***11.5***	ug/kg	11	21	42	42	1.00	J	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Benzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Bromoform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Bromomethane	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Carbon disulfide	***0.953***	ug/kg	0.95	2.1	4.2	4.2	1.00	J	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Chloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Dibromomethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356175 Sample Description: DPT-003 (39-40) Client Sample #: Sampled: 11/04/2019 1600

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dichlorodifluoromethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Hexachlorobutadiene	<2.1	ug/kg	1.1	2.1	4.2	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
m & p-Xylene	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Methylene chloride	<2.1	ug/kg	1.8	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
n-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
n-Propylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Naphthalene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
p-Isopropyltoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
sec-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Styrene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
tert-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Toluene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Trichloroethene	***1.48***	ug/kg	0.32	1.1	2.1	2.1	1.00	J	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Vinyl Acetate	<21	ug/kg	13	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Vinyl chloride	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
1,2 Dichloroethane-d4	105	% Recovery	71			136	1.00		11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Bromofluorobenzene	115	% Recovery	79			119	1.00		11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:15	11/14/19 11:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356176 Sample Description: DPT-001 (27-28) Client Sample #: Sampled: 11/05/2019 0810

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***80.0***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,1-Dichloroethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,1-Dichloroethene	***4.93***	ug/kg	0.44	1.1	2.2	2.2	1.00		11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.2	ug/kg	0.88	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.2	ug/kg	1.4	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,2-Dibromoethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,2-Dichloropropane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.2	ug/kg	1.1	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
2-Butanone	<22	ug/kg	11	22	44	44	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
2-Chlorotoluene	<2.2	ug/kg	1.1	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356176 Sample Description: DPT-001 (27-28) Client Sample #: Sampled: 11/05/2019 0810

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<22	ug/kg	12	22	44	44	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
4-Chlorotoluene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
4-Methyl-2-pentanone	<22	ug/kg	11	22	44	44	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Acetone	<22	ug/kg	11	22	44	44	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Benzene	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Bromoform	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Bromomethane	<2.2	ug/kg	0.77	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Carbon disulfide	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Chloromethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
cis-1,2-Dichloroethene	***73.8***	ug/kg	0.44	1.1	2.2	2.2	1.00		11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Dibromomethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Dichlorodifluoromethane	<2.2	ug/kg	1.1	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Hexachlorobutadiene	<2.2	ug/kg	1.1	2.2	4.4	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
m & p-Xylene	<2.2	ug/kg	0.77	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Methylene chloride	<2.2	ug/kg	1.9	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
n-Butylbenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
n-Propylbenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356176 Sample Description: DPT-001 (27-28) Client Sample #: Sampled: 11/05/2019 0810

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<2.2	ug/kg	1.1	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
p-Isopropyltoluene	<2.2	ug/kg	1.1	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
sec-Butylbenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Styrene	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
tert-Butylbenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Toluene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Trichloroethene	***11800***	ug/kg	94	250	9.9	500	5.00		11/12/2019 10:15	11/19/19 11:55	DGS	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Vinyl Acetate	<22	ug/kg	13	22	44	44	1.00	U	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Vinyl chloride	***0.985***	ug/kg	0.55	1.1	2.2	2.2	1.00	J	11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	71			136	1.00		11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
d8-Toluene	95	% Recovery	85			116	1.00		11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	78			119	1.00		11/12/2019 10:15	11/12/19 21:40	RLD	EPA 8260C

CT LAB#: 356177 Sample Description: DPT-001 (31-32) Client Sample #: Sampled: 11/05/2019 0820

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***83.7***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356177 Sample Description: DPT-001 (31-32) Client Sample #: Sampled: 11/05/2019 0820

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,1-Dichloroethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,1-Dichloropropene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.0	ug/kg	0.81	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.0	ug/kg	1.3	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,2-Dibromoethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,2-Dichloroethane	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,2-Dichloropropane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,3-Dichloropropane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/kg	1.0	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
2,2-Dichloropropane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
2-Butanone	<20	ug/kg	10	20	40	40	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
2-Chlorotoluene	<2.0	ug/kg	1.0	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
2-Hexanone	<20	ug/kg	11	20	40	40	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
4-Chlorotoluene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
4-Methyl-2-pentanone	<20	ug/kg	10	20	40	40	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Acetone	***19.5***	ug/kg	10	20	40	40	1.00	J	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356177 Sample Description: DPT-001 (31-32) Client Sample #: Sampled: 11/05/2019 0820

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Bromobenzene	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Bromochloromethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Bromodichloromethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Bromoform	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Bromomethane	<2.0	ug/kg	0.71	2.0	4.0	4.0	1.00	U Z	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Carbon tetrachloride	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Chlorobenzene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Chloroethane	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Chloroform	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Chloromethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
cis-1,2-Dichloroethene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Dibromochloromethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Dibromomethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Dichlorodifluoromethane	<2.0	ug/kg	1.0	2.0	4.0	4.0	1.00	U Z	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Ethylbenzene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Hexachlorobutadiene	<2.0	ug/kg	1.0	2.0	4.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Isopropylbenzene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
m & p-Xylene	<2.0	ug/kg	0.71	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Methylene chloride	<2.0	ug/kg	1.7	2.0	4.0	4.0	1.00	U Z	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
n-Butylbenzene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
n-Propylbenzene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Naphthalene	<2.0	ug/kg	1.0	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
o-Xylene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
p-Isopropyltoluene	<2.0	ug/kg	1.0	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
sec-Butylbenzene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356177 Sample Description: DPT-001 (31-32) Client Sample #: Sampled: 11/05/2019 0820

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Styrene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
tert-Butylbenzene	<2.0	ug/kg	0.91	2.0	4.0	4.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Tetrachloroethene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Toluene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Trichloroethene	***1.62***	ug/kg	0.30	1.0	2.0	2.0	1.00	J	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Trichlorofluoromethane	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Vinyl Acetate	<20	ug/kg	12	20	40	40	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Vinyl chloride	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
1,2 Dichloroethane-d4	115	% Recovery	71			136	1.00		11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Bromofluorobenzene	120	% Recovery	79			119	1.00	S	11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
d8-Toluene	95	% Recovery	85			116	1.00		11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C
Dibromofluoromethane	110	% Recovery	78			119	1.00		11/12/2019 10:15	11/14/19 12:12	RLD	EPA 8260C

CT LAB#: 356178 Sample Description: DPT-001 (38-39) Client Sample #: Sampled: 11/05/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***81.3***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356178 Sample Description: DPT-001 (38-39) Client Sample #: Sampled: 11/05/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,1-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.1	ug/kg	0.84	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.1	ug/kg	1.4	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,2-Dibromoethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
2-Butanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
2-Chlorotoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
2-Hexanone	<21	ug/kg	12	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
4-Chlorotoluene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
4-Methyl-2-pentanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Acetone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Benzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356178 Sample Description: DPT-001 (38-39) Client Sample #: Sampled: 11/05/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromoform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Bromomethane	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Carbon disulfide	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Chloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
cis-1,2-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Dibromomethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Dichlorodifluoromethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Hexachlorobutadiene	<2.1	ug/kg	1.1	2.1	4.2	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
m & p-Xylene	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Methylene chloride	<2.1	ug/kg	1.8	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
n-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
n-Propylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Naphthalene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
p-Isopropyltoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
sec-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Styrene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
tert-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Toluene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356178 Sample Description: DPT-001 (38-39) Client Sample #: Sampled: 11/05/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Trichloroethene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Vinyl Acetate	<21	ug/kg	13	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Vinyl chloride	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	71			136	1.00		11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Bromofluorobenzene	110	% Recovery	79			119	1.00		11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C
Dibromofluoromethane	110	% Recovery	78			119	1.00		11/12/2019 10:15	11/14/19 12:41	RLD	EPA 8260C

CT LAB#: 356179 Sample Description: DPT-009 (24-25) Client Sample #: Sampled: 11/05/2019 0940

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***81.6***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.2	ug/kg	0.61	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,1-Dichloroethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,1-Dichloroethene	***0.613***	ug/kg	0.49	1.2	2.5	2.5	1.00	J	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,1-Dichloropropene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356179 Sample Description: DPT-009 (24-25) Client Sample #: Sampled: 11/05/2019 0940

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichloropropane	<1.2	ug/kg	0.61	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.5	ug/kg	0.98	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.5	ug/kg	1.6	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,2-Dibromoethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,2-Dichloroethane	<1.2	ug/kg	0.61	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,2-Dichloropropane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,3-Dichloropropane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.5	ug/kg	1.2	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
2,2-Dichloropropane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
2-Butanone	<25	ug/kg	12	25	49	49	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
2-Chlorotoluene	<2.5	ug/kg	1.2	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
2-Hexanone	<25	ug/kg	13	25	49	49	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
4-Chlorotoluene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
4-Methyl-2-pentanone	<25	ug/kg	12	25	49	49	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Acetone	***15.3***	ug/kg	12	25	49	49	1.00	J	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Benzene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Bromobenzene	<1.2	ug/kg	0.61	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Bromochloromethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Bromodichloromethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Bromoform	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Bromomethane	<2.5	ug/kg	0.86	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Carbon disulfide	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Carbon tetrachloride	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356179 Sample Description: DPT-009 (24-25) Client Sample #: Sampled: 11/05/2019 0940

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chlorobenzene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Chloroethane	<1.2	ug/kg	0.61	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Chloroform	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Chloromethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
cis-1,2-Dichloroethene	***44.5***	ug/kg	0.49	1.2	2.5	2.5	1.00		11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Dibromochloromethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Dibromomethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Dichlorodifluoromethane	<2.5	ug/kg	1.2	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Ethylbenzene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Hexachlorobutadiene	<2.5	ug/kg	1.2	2.5	4.9	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Isopropylbenzene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
m & p-Xylene	<2.5	ug/kg	0.86	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Methylene chloride	<2.5	ug/kg	2.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
n-Butylbenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
n-Propylbenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Naphthalene	<2.5	ug/kg	1.2	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
o-Xylene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
p-Isopropyltoluene	<2.5	ug/kg	1.2	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
sec-Butylbenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Styrene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
tert-Butylbenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Tetrachloroethene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Toluene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Trichloroethene	***295***	ug/kg	24	62	2.5	120	1.00		11/12/2019 10:15	11/19/19 12:23	DGS	EPA 8260C
Trichlorofluoromethane	<1.2	ug/kg	0.61	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356179 Sample Description: DPT-009 (24-25) Client Sample #: Sampled: 11/05/2019 0940

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl Acetate	<25	ug/kg	15	25	49	49	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Vinyl chloride	<1.2	ug/kg	0.61	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	71			136	1.00		11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
d8-Toluene	95	% Recovery	85			116	1.00		11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	78			119	1.00		11/12/2019 10:15	11/12/19 23:07	RLD	EPA 8260C

CT LAB#: 356180 Sample Description: DPT-009 (28-29) Client Sample #: Sampled: 11/05/2019 0950

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***84.2***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,1-Dichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,1-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.1	ug/kg	0.84	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.1	ug/kg	1.4	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356180 Sample Description: DPT-009 (28-29) Client Sample #: Sampled: 11/05/2019 0950

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
2-Butanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
2-Chlorotoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
2-Hexanone	<21	ug/kg	12	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
4-Chlorotoluene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
4-Methyl-2-pentanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Acetone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Benzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Bromoform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Bromomethane	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Carbon disulfide	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Chloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356180 Sample Description: DPT-009 (28-29) Client Sample #: Sampled: 11/05/2019 0950

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Dibromomethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Dichlorodifluoromethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Hexachlorobutadiene	<2.1	ug/kg	1.1	2.1	4.2	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
m & p-Xylene	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Methylene chloride	<2.1	ug/kg	1.8	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
n-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
n-Propylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Naphthalene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
p-Isopropyltoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
sec-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Styrene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
tert-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Toluene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Trichloroethene	***1.05***	ug/kg	0.32	1.1	2.1	2.1	1.00	J	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Vinyl Acetate	<21	ug/kg	13	21	42	42	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Vinyl chloride	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356180 Sample Description: DPT-009 (28-29) Client Sample #: Sampled: 11/05/2019 0950

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:15	11/14/19 13:10	RLD	EPA 8260C

CT LAB#: 356181 Sample Description: DPT-009 (31-32) Client Sample #: Sampled: 11/05/2019 1000

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***82.3***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<0.84	ug/kg	0.25	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.84	ug/kg	0.25	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.84	ug/kg	0.42	0.84	1.7	1.7	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,1-Dichloroethane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,1-Dichloroethene	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,1-Dichloropropene	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U Y,M	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,2,3-Trichloropropane	***1.18***	ug/kg	0.42	0.84	1.7	1.7	1.00	J Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U Y,M	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.7	ug/kg	0.68	1.7	3.4	3.4	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.7	ug/kg	1.1	1.7	3.4	3.4	1.00	U Y,M	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,2-Dibromoethane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U Y,M	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,2-Dichloroethane	<0.84	ug/kg	0.42	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,2-Dichloropropane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356181 Sample Description: DPT-009 (31-32) Client Sample #: Sampled: 11/05/2019 1000

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U Y,M	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,3-Dichloropropane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U Y,M	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.7	ug/kg	0.84	1.7	3.4	3.4	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
2,2-Dichloropropane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
2-Butanone	<17	ug/kg	8.4	17	34	34	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
2-Chlorotoluene	<1.7	ug/kg	0.84	1.7	3.4	3.4	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
2-Hexanone	<17	ug/kg	9.3	17	34	34	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
4-Chlorotoluene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
4-Methyl-2-pentanone	<17	ug/kg	8.4	17	34	34	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Acetone	<17	ug/kg	8.4	17	34	34	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Benzene	<0.84	ug/kg	0.25	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Bromobenzene	<0.84	ug/kg	0.42	0.84	1.7	1.7	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Bromochloromethane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Bromodichloromethane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Bromoform	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Bromomethane	<1.7	ug/kg	0.59	1.7	3.4	3.4	1.00	U Y,M,Z	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Carbon disulfide	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Carbon tetrachloride	<0.84	ug/kg	0.25	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Chlorobenzene	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Chloroethane	<0.84	ug/kg	0.42	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Chloroform	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Chloromethane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.84	ug/kg	0.25	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Dibromochloromethane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Dibromomethane	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356181 Sample Description: DPT-009 (31-32) Client Sample #: Sampled: 11/05/2019 1000

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dichlorodifluoromethane	<1.7	ug/kg	0.84	1.7	3.4	3.4	1.00	U Z	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Ethylbenzene	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Hexachlorobutadiene	<1.7	ug/kg	0.84	1.7	3.4	1.7	1.00	U Y,M	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Isopropylbenzene	<0.84	ug/kg	0.25	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
m & p-Xylene	<1.7	ug/kg	0.59	1.7	3.4	3.4	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Methylene chloride	<1.7	ug/kg	1.4	1.7	3.4	3.4	1.00	U Z	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
n-Butylbenzene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
n-Propylbenzene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Naphthalene	<1.7	ug/kg	0.84	1.7	3.4	3.4	1.00	U Y,M	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
o-Xylene	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
p-Isopropyltoluene	<1.7	ug/kg	0.84	1.7	3.4	3.4	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
sec-Butylbenzene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U Y	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Styrene	<0.84	ug/kg	0.25	0.84	1.7	1.7	1.00	U Y,M	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
tert-Butylbenzene	<1.7	ug/kg	0.76	1.7	3.4	3.4	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Tetrachloroethene	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Toluene	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.84	ug/kg	0.34	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Trichloroethene	<0.84	ug/kg	0.25	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Trichlorofluoromethane	<0.84	ug/kg	0.42	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Vinyl Acetate	<17	ug/kg	10	17	34	34	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Vinyl chloride	<0.84	ug/kg	0.42	0.84	1.7	1.7	1.00	U	11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
1,2 Dichloroethane-d4	105	% Recovery	71			136	1.00		11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Bromofluorobenzene	105	% Recovery	79			119	1.00		11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:15	11/14/19 13:39	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356182 Sample Description: DUP-001 Client Sample #: Sampled: 11/05/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***79.8***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,1-Dichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,1-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.1	ug/kg	0.84	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.1	ug/kg	1.4	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,2-Dibromoethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
2-Butanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
2-Chlorotoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356182 Sample Description: DUP-001 Client Sample #: Sampled: 11/05/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<21	ug/kg	12	21	42	42	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
4-Chlorotoluene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
4-Methyl-2-pentanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Acetone	***16.3***	ug/kg	11	21	42	42	1.00	J	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Benzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Bromoform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Bromomethane	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Carbon disulfide	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Chloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
cis-1,2-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Dibromomethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Dichlorodifluoromethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Hexachlorobutadiene	<2.1	ug/kg	1.1	2.1	4.2	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
m & p-Xylene	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Methylene chloride	<2.1	ug/kg	1.8	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
n-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
n-Propylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356182 Sample Description: DUP-001 Client Sample #: Sampled: 11/05/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
p-Isopropyltoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
sec-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Styrene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
tert-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Toluene	***0.842***	ug/kg	0.42	1.1	2.1	2.1	1.00	J	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Trichloroethene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Vinyl Acetate	<21	ug/kg	13	21	42	42	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Vinyl chloride	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
1,2 Dichloroethane-d4	105	% Recovery	71			136	1.00		11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Bromofluorobenzene	105	% Recovery	79			119	1.00		11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:15	11/13/19 00:34	RLD	EPA 8260C

CT LAB#: 356183 Sample Description: DPT-006 (20-21) Client Sample #: Sampled: 11/05/2019 1120

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***85.7***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356183 Sample Description: DPT-006 (20-21) Client Sample #: Sampled: 11/05/2019 1120

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,1-Dichloroethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,1-Dichloroethene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,1-Dichloropropene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.5	ug/kg	1.0	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.5	ug/kg	1.6	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,2-Dibromoethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,2-Dichloroethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,2-Dichloropropane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,3-Dichloropropane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.5	ug/kg	1.2	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
2,2-Dichloropropane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
2-Butanone	<25	ug/kg	12	25	50	50	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
2-Chlorotoluene	<2.5	ug/kg	1.2	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
2-Hexanone	<25	ug/kg	14	25	50	50	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
4-Chlorotoluene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
4-Methyl-2-pentanone	<25	ug/kg	12	25	50	50	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Acetone	<25	ug/kg	12	25	50	50	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356183 Sample Description: DPT-006 (20-21) Client Sample #: Sampled: 11/05/2019 1120

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Bromobenzene	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Bromochloromethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Bromodichloromethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Bromoform	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Bromomethane	<2.5	ug/kg	0.87	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Carbon disulfide	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Carbon tetrachloride	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Chlorobenzene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Chloroethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Chloroform	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Chloromethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
cis-1,2-Dichloroethene	***1.99***	ug/kg	0.50	1.2	2.5	2.5	1.00	J	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Dibromochloromethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Dibromomethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Dichlorodifluoromethane	<2.5	ug/kg	1.2	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Ethylbenzene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Hexachlorobutadiene	<2.5	ug/kg	1.2	2.5	5.0	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Isopropylbenzene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
m & p-Xylene	<2.5	ug/kg	0.87	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Methylene chloride	<2.5	ug/kg	2.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
n-Butylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
n-Propylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Naphthalene	<2.5	ug/kg	1.2	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
o-Xylene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
p-Isopropyltoluene	<2.5	ug/kg	1.2	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
sec-Butylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356183 Sample Description: DPT-006 (20-21) Client Sample #: Sampled: 11/05/2019 1120

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Styrene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
tert-Butylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Tetrachloroethene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Toluene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Trichloroethene	***68.4***	ug/kg	0.37	1.2	2.5	2.5	1.00		11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Trichlorofluoromethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Vinyl Acetate	<25	ug/kg	15	25	50	50	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Vinyl chloride	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Bromofluorobenzene	95	% Recovery	79			119	1.00		11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:15	11/13/19 01:03	RLD	EPA 8260C

CT LAB#: 356184 Sample Description: DPT-006 (27-28) Client Sample #: Sampled: 11/05/2019 1130

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***83.4***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356184 Sample Description: DPT-006 (27-28) Client Sample #: Sampled: 11/05/2019 1130

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,1-Dichloroethene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.2	ug/kg	0.88	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.2	ug/kg	1.4	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,2-Dibromoethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,2-Dichloropropane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.2	ug/kg	1.1	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
2-Butanone	<22	ug/kg	11	22	44	44	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
2-Chlorotoluene	<2.2	ug/kg	1.1	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
2-Hexanone	<22	ug/kg	12	22	44	44	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
4-Chlorotoluene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
4-Methyl-2-pentanone	<22	ug/kg	11	22	44	44	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Acetone	<22	ug/kg	11	22	44	44	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Benzene	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356184 Sample Description: DPT-006 (27-28) Client Sample #: Sampled: 11/05/2019 1130

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromoform	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Bromomethane	<2.2	ug/kg	0.77	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Carbon disulfide	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Chloromethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
cis-1,2-Dichloroethene	***5.60***	ug/kg	0.44	1.1	2.2	2.2	1.00		11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Dibromomethane	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Dichlorodifluoromethane	<2.2	ug/kg	1.1	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Hexachlorobutadiene	<2.2	ug/kg	1.1	2.2	4.4	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
m & p-Xylene	<2.2	ug/kg	0.77	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Methylene chloride	<2.2	ug/kg	1.9	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
n-Butylbenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
n-Propylbenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Naphthalene	<2.2	ug/kg	1.1	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
p-Isopropyltoluene	<2.2	ug/kg	1.1	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
sec-Butylbenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Styrene	<1.1	ug/kg	0.33	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
tert-Butylbenzene	<2.2	ug/kg	0.99	2.2	4.4	4.4	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Toluene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356184 Sample Description: DPT-006 (27-28) Client Sample #: Sampled: 11/05/2019 1130

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.44	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Trichloroethene	***191***	ug/kg	20	52	2.1	100	1.00		11/12/2019 10:15	11/18/19 19:43	DGS	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Vinyl Acetate	<22	ug/kg	13	22	44	44	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Vinyl chloride	<1.1	ug/kg	0.55	1.1	2.2	2.2	1.00	U	11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
1,2 Dichloroethane-d4	120	% Recovery	71			136	1.00		11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:15	11/13/19 01:32	RLD	EPA 8260C

CT LAB#: 356185 Sample Description: DPT-006(30-31) Client Sample #: Sampled: 11/05/2019 1140

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***83.8***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.8	ug/kg	0.53	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.8	ug/kg	0.53	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,1-Dichloroethane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,1-Dichloroethene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,1-Dichloropropene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356185 Sample Description: DPT-006(30-31) Client Sample #: Sampled: 11/05/2019 1140

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichloropropane	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U M	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U M	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<3.5	ug/kg	1.4	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<3.5	ug/kg	2.3	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,2-Dibromoethane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,2-Dichlorobenzene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U M	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,2-Dichloroethane	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,2-Dichloropropane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,3-Dichlorobenzene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,3-Dichloropropane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,4-Dichlorobenzene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
112Trichloro122trifluoroethane	<3.5	ug/kg	1.8	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
2,2-Dichloropropane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
2-Butanone	<35	ug/kg	18	35	71	71	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
2-Chlorotoluene	<3.5	ug/kg	1.8	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
2-Hexanone	<35	ug/kg	19	35	71	71	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
4-Chlorotoluene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
4-Methyl-2-pentanone	<35	ug/kg	18	35	71	71	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Acetone	<35	ug/kg	18	35	71	71	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Benzene	<1.8	ug/kg	0.53	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Bromobenzene	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Bromochloromethane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Bromodichloromethane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Bromoform	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Bromomethane	<3.5	ug/kg	1.2	3.5	7.1	7.1	1.00	U Z	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Carbon disulfide	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Carbon tetrachloride	<1.8	ug/kg	0.53	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356185 Sample Description: DPT-006(30-31) Client Sample #: Sampled: 11/05/2019 1140

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chlorobenzene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Chloroethane	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Chloroform	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Chloromethane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
cis-1,2-Dichloroethene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.8	ug/kg	0.53	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Dibromochloromethane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Dibromomethane	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Dichlorodifluoromethane	<3.5	ug/kg	1.8	3.5	7.1	7.1	1.00	U Z	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Ethylbenzene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Hexachlorobutadiene	<3.5	ug/kg	1.8	3.5	7.1	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Isopropylbenzene	<1.8	ug/kg	0.53	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
m & p-Xylene	<3.5	ug/kg	1.2	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Methylene chloride	<3.5	ug/kg	3.0	3.5	7.1	7.1	1.00	U Z,M	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
n-Butylbenzene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
n-Propylbenzene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Naphthalene	<3.5	ug/kg	1.8	3.5	7.1	7.1	1.00	U M	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
o-Xylene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
p-Isopropyltoluene	<3.5	ug/kg	1.8	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
sec-Butylbenzene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Styrene	<1.8	ug/kg	0.53	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
tert-Butylbenzene	<3.5	ug/kg	1.6	3.5	7.1	7.1	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Tetrachloroethene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Toluene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Trichloroethene	***1.24***	ug/kg	0.53	1.8	3.5	3.5	1.00	J	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Trichlorofluoromethane	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356185 Sample Description: DPT-006(30-31) Client Sample #: Sampled: 11/05/2019 1140

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl Acetate	<35	ug/kg	21	35	71	71	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Vinyl chloride	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/14/19 14:08	RLD	EPA 8260C

CT LAB#: 356186 Sample Description: DUP-002 Client Sample #: Sampled: 11/05/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***83.2***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,1-Dichloroethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,1-Dichloroethene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,1-Dichloropropene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.5	ug/kg	0.99	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.5	ug/kg	1.6	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356186 Sample Description: DUP-002 Client Sample #: Sampled: 11/05/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,2-Dichloroethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,2-Dichloropropane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,3-Dichloropropane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.5	ug/kg	1.2	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
2,2-Dichloropropane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
2-Butanone	<25	ug/kg	12	25	49	49	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
2-Chlorotoluene	<2.5	ug/kg	1.2	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
2-Hexanone	<25	ug/kg	14	25	49	49	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
4-Chlorotoluene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
4-Methyl-2-pentanone	<25	ug/kg	12	25	49	49	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Acetone	<25	ug/kg	12	25	49	49	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Benzene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Bromobenzene	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Bromochloromethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Bromodichloromethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Bromoform	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Bromomethane	<2.5	ug/kg	0.86	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Carbon disulfide	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Carbon tetrachloride	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Chlorobenzene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Chloroethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Chloroform	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Chloromethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356186 Sample Description: DUP-002 Client Sample #: Sampled: 11/05/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Dibromochloromethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Dibromomethane	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Dichlorodifluoromethane	<2.5	ug/kg	1.2	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Ethylbenzene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Hexachlorobutadiene	<2.5	ug/kg	1.2	2.5	4.9	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Isopropylbenzene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
m & p-Xylene	<2.5	ug/kg	0.86	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Methylene chloride	<2.5	ug/kg	2.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
n-Butylbenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
n-Propylbenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Naphthalene	<2.5	ug/kg	1.2	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
o-Xylene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
p-Isopropyltoluene	<2.5	ug/kg	1.2	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
sec-Butylbenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Styrene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
tert-Butylbenzene	<2.5	ug/kg	1.1	2.5	4.9	4.9	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Tetrachloroethene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Toluene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.2	ug/kg	0.49	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Trichloroethene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Trichlorofluoromethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Vinyl Acetate	<25	ug/kg	15	25	49	49	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Vinyl chloride	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356186 Sample Description: DUP-002 Client Sample #: Sampled: 11/05/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	78			119	1.00		11/12/2019 10:15	11/13/19 02:01	RLD	EPA 8260C

CT LAB#: 356187 Sample Description: DPT-005 (24-25) Client Sample #: Sampled: 11/05/2019 1250

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***81.2***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<0.89	ug/kg	0.27	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.89	ug/kg	0.27	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.89	ug/kg	0.44	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,1-Dichloroethane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,1-Dichloroethene	***0.799***	ug/kg	0.35	0.89	1.8	1.8	1.00	J	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,1-Dichloropropene	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.89	ug/kg	0.44	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.8	ug/kg	0.71	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.8	ug/kg	1.2	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,2-Dibromoethane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,2-Dichloroethane	<0.89	ug/kg	0.44	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,2-Dichloropropane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356187 Sample Description: DPT-005 (24-25) Client Sample #: Sampled: 11/05/2019 1250

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,3-Dichloropropane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
2,2-Dichloropropane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
2-Butanone	<18	ug/kg	8.9	18	35	35	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
2-Chlorotoluene	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
2-Hexanone	<18	ug/kg	9.8	18	35	35	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
4-Chlorotoluene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
4-Methyl-2-pentanone	<18	ug/kg	8.9	18	35	35	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Acetone	<18	ug/kg	8.9	18	35	35	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Benzene	<0.89	ug/kg	0.27	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Bromobenzene	<0.89	ug/kg	0.44	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Bromochloromethane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Bromodichloromethane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Bromoform	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Bromomethane	<1.8	ug/kg	0.62	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Carbon disulfide	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Carbon tetrachloride	<0.89	ug/kg	0.27	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Chlorobenzene	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Chloroethane	<0.89	ug/kg	0.44	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Chloroform	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Chloromethane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
cis-1,2-Dichloroethene	***34.2***	ug/kg	0.35	0.89	1.8	1.8	1.00		11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.89	ug/kg	0.27	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Dibromochloromethane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Dibromomethane	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356187 Sample Description: DPT-005 (24-25) Client Sample #: Sampled: 11/05/2019 1250

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dichlorodifluoromethane	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Ethylbenzene	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Hexachlorobutadiene	<1.8	ug/kg	0.89	1.8	3.5	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Isopropylbenzene	<0.89	ug/kg	0.27	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
m & p-Xylene	<1.8	ug/kg	0.62	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Methylene chloride	<1.8	ug/kg	1.5	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
n-Butylbenzene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
n-Propylbenzene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Naphthalene	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
o-Xylene	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
p-Isopropyltoluene	<1.8	ug/kg	0.89	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
sec-Butylbenzene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Styrene	<0.89	ug/kg	0.27	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
tert-Butylbenzene	<1.8	ug/kg	0.80	1.8	3.5	3.5	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Tetrachloroethene	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Toluene	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.89	ug/kg	0.35	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Trichloroethene	***1620***	ug/kg	21	55	2.2	110	1.00		11/12/2019 10:15	11/18/19 20:12	DGS	EPA 8260C
Trichlorofluoromethane	<0.89	ug/kg	0.44	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Vinyl Acetate	<18	ug/kg	11	18	35	35	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Vinyl chloride	<0.89	ug/kg	0.44	0.89	1.8	1.8	1.00	U	11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	71			136	1.00		11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Bromofluorobenzene	95	% Recovery	79			119	1.00		11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	78			119	1.00		11/12/2019 10:15	11/13/19 02:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356188 Sample Description: DPT-005 (27-28) Client Sample #: Sampled: 11/05/2019 1300

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***82.6***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,1-Dichloroethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,1-Dichloroethene	***0.622***	ug/kg	0.41	1.0	2.1	2.1	1.00	J	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,1-Dichloropropene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.1	ug/kg	0.83	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.1	ug/kg	1.3	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,2-Dibromoethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,2-Dichloroethane	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,2-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,3-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
2,2-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
2-Butanone	<21	ug/kg	10	21	41	41	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
2-Chlorotoluene	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356188 Sample Description: DPT-005 (27-28) Client Sample #: Sampled: 11/05/2019 1300

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<21	ug/kg	11	21	41	41	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
4-Chlorotoluene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
4-Methyl-2-pentanone	<21	ug/kg	10	21	41	41	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Acetone	<21	ug/kg	10	21	41	41	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Benzene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Bromobenzene	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Bromochloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Bromodichloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Bromoform	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Bromomethane	<2.1	ug/kg	0.73	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Carbon disulfide	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Carbon tetrachloride	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Chlorobenzene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Chloroethane	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Chloroform	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Chloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
cis-1,2-Dichloroethene	***48.7***	ug/kg	0.41	1.0	2.1	2.1	1.00		11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Dibromochloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Dibromomethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Dichlorodifluoromethane	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Ethylbenzene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Hexachlorobutadiene	<2.1	ug/kg	1.0	2.1	4.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Isopropylbenzene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
m & p-Xylene	<2.1	ug/kg	0.73	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Methylene chloride	<2.1	ug/kg	1.8	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
n-Butylbenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
n-Propylbenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356188 Sample Description: DPT-005 (27-28) Client Sample #: Sampled: 11/05/2019 1300

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
o-Xylene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
p-Isopropyltoluene	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
sec-Butylbenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Styrene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
tert-Butylbenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Tetrachloroethene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Toluene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Trichloroethene	***957***	ug/kg	20	52	2.1	100	1.00		11/12/2019 10:15	11/18/19 20:41	DGS	EPA 8260C
Trichlorofluoromethane	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Vinyl Acetate	<21	ug/kg	12	21	41	41	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Vinyl chloride	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
1,2 Dichloroethane-d4	115	% Recovery	71			136	1.00		11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Bromofluorobenzene	105	% Recovery	79			119	1.00		11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
d8-Toluene	95	% Recovery	85			116	1.00		11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:15	11/13/19 02:59	RLD	EPA 8260C

CT LAB#: 356189 Sample Description: DPT-005 (31-32) Client Sample #: Sampled: 11/05/2019 1310

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***84.2***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:37	BMM	EPA 8000C
Organic Results												

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356189 Sample Description: DPT-005 (31-32) Client Sample #: Sampled: 11/05/2019 1310

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,1-Dichloroethane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,1-Dichloropropene	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.0	ug/kg	0.81	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.0	ug/kg	1.3	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,2-Dibromoethane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,2-Dichloroethane	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,2-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,3-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/kg	1.0	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
2,2-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
2-Butanone	<20	ug/kg	10	20	41	41	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
2-Chlorotoluene	<2.0	ug/kg	1.0	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
2-Hexanone	<20	ug/kg	11	20	41	41	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
4-Chlorotoluene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
4-Methyl-2-pentanone	<20	ug/kg	10	20	41	41	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Acetone	<20	ug/kg	10	20	41	41	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356189 Sample Description: DPT-005 (31-32) Client Sample #: Sampled: 11/05/2019 1310

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Bromobenzene	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Bromochloromethane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Bromodichloromethane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Bromoform	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Bromomethane	<2.0	ug/kg	0.71	2.0	4.1	4.1	1.00	U Z	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Carbon tetrachloride	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Chlorobenzene	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Chloroethane	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Chloroform	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Chloromethane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
cis-1,2-Dichloroethene	***4.26***	ug/kg	0.41	1.0	2.0	2.0	1.00		11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Dibromochloromethane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Dibromomethane	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Dichlorodifluoromethane	<2.0	ug/kg	1.0	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Ethylbenzene	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Hexachlorobutadiene	<2.0	ug/kg	1.0	2.0	4.1	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Isopropylbenzene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
m & p-Xylene	<2.0	ug/kg	0.71	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Methylene chloride	<2.0	ug/kg	1.7	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
n-Butylbenzene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
n-Propylbenzene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Naphthalene	<2.0	ug/kg	1.0	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
o-Xylene	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
p-Isopropyltoluene	<2.0	ug/kg	1.0	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
sec-Butylbenzene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356189 Sample Description: DPT-005 (31-32) Client Sample #: Sampled: 11/05/2019 1310

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Styrene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
tert-Butylbenzene	<2.0	ug/kg	0.91	2.0	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Tetrachloroethene	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Toluene	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.0	ug/kg	0.41	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Trichloroethene	***271***	ug/kg	20	53	110	110	1.00		11/12/2019 10:40	11/18/19 21:10	DGS	EPA 8260C
Trichlorofluoromethane	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Vinyl Acetate	<20	ug/kg	12	20	41	41	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Vinyl chloride	<1.0	ug/kg	0.51	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
1,2 Dichloroethane-d4	115	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 10:07	RLD	EPA 8260C

CT LAB#: 356190 Sample Description: EB-001 Client Sample #: Sampled: 11/05/2019 1500

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356190 Sample Description: EB-001 Client Sample #: Sampled: 11/05/2019 1500

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichlorobenzene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.60	ug/L	0.28	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,2-Dichloroethane	<0.60	ug/L	0.24	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,2-Dichloropropane	<0.60	ug/L	0.18	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,3-Dichloropropane	<0.30	ug/L	0.17	0.30	0.60	0.60	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/L	0.70	2.0	4.0	4.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
2,2-Dichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
2-Butanone	<6.0	ug/L	2.6	6.0	10	10	1.00	U		11/14/19 15:14	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
2-Hexanone	<6.0	ug/L	3.0	6.0	10	10	1.00	U		11/14/19 15:14	RLD	EPA 8260C
4-Chlorotoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	2.2	6.0	10	10	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Acetone	***6.3***	ug/L	4.0	10	20	20	1.00	J		11/14/19 15:14	RLD	EPA 8260C
Benzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Bromobenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Bromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Bromodichloromethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Bromoform	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Bromomethane	<2.0	ug/L	0.90	2.0	4.0	4.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/L	0.60	2.0	4.0	4.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356190 Sample Description: EB-001 Client Sample #: Sampled: 11/05/2019 1500

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Carbon tetrachloride	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Chlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Chloroethane	<1.0	ug/L	0.50	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Chloromethane	<1.0	ug/L	0.60	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.30	ug/L	0.16	0.30	0.60	0.60	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Dibromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.22	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Dichlorodifluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Hexachlorobutadiene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Isopropylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	0.70	1.2	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Methylene chloride	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
n-Butylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
n-Propylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Naphthalene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
o-Xylene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
p-Isopropyltoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
sec-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U Z		11/14/19 15:14	RLD	EPA 8260C
Styrene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
tert-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Tetrachloroethene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Toluene	<0.60	ug/L	0.21	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Trichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356190 Sample Description: EB-001 Client Sample #: Sampled: 11/05/2019 1500

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichlorofluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Vinyl Acetate	<10	ug/L	5.0	10	20	20	1.00	U		11/14/19 15:14	RLD	EPA 8260C
Vinyl chloride	<0.30	ug/L	0.14	0.30	0.60	0.60	1.00	U		11/14/19 15:14	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	81			118	1.00			11/14/19 15:14	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	85			114	1.00			11/14/19 15:14	RLD	EPA 8260C
d8-Toluene	97	% Recovery	89			112	1.00			11/14/19 15:14	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	80			119	1.00			11/14/19 15:14	RLD	EPA 8260C

CT LAB#: 356191 Sample Description: DPT-007 (27-28) Client Sample #: Sampled: 11/05/2019 1520

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***82.7***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,1-Dichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,1-Dichloroethene	***2.97***	ug/kg	0.42	1.1	2.1	2.1	1.00		11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.1	ug/kg	0.85	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356191 Sample Description: DPT-007 (27-28) Client Sample #: Sampled: 11/05/2019 1520

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromo-3-chloropropane	<2.1	ug/kg	1.4	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,2-Dibromoethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
2-Butanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
2-Chlorotoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
2-Hexanone	<21	ug/kg	12	21	42	42	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
4-Chlorotoluene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
4-Methyl-2-pentanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Acetone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Benzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Bromoform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Bromomethane	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Carbon disulfide	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356191 Sample Description: DPT-007 (27-28) Client Sample #: Sampled: 11/05/2019 1520

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
cis-1,2-Dichloroethene	***84.0***	ug/kg	28	52	100	100	1.00	J	11/12/2019 10:40	11/19/19 13:49	DGS	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Dibromomethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Dichlorodifluoromethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Hexachlorobutadiene	<2.1	ug/kg	1.1	2.1	4.2	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
m & p-Xylene	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Methylene chloride	<2.1	ug/kg	1.8	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
n-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
n-Propylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Naphthalene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
p-Isopropyltoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
sec-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Styrene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
tert-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Toluene	***0.955***	ug/kg	0.42	1.1	2.1	2.1	1.00	J	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Trichloroethene	***6210***	ug/kg	40	100	210	210	2.00		11/12/2019 10:40	11/18/19 21:38	DGS	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Vinyl Acetate	<21	ug/kg	13	21	42	42	1.00	U	11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Vinyl chloride	***4.56***	ug/kg	0.53	1.1	2.1	2.1	1.00		11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
1,2 Dichloroethane-d4	105	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356191 Sample Description: DPT-007 (27-28) Client Sample #: Sampled: 11/05/2019 1520

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromofluorobenzene	95	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 10:36	RLD	EPA 8260C

CT LAB#: 356192 Sample Description: DPT-007 (29-30) Client Sample #: Sampled: 11/05/2019 1530

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***82.2***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.32	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.32	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.54	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,1-Dichloroethane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,1-Dichloroethene	***0.647***	ug/kg	0.43	1.1	2.2	2.2	1.00	J	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.54	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.2	ug/kg	0.86	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.2	ug/kg	1.4	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,2-Dibromoethane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.54	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356192 Sample Description: DPT-007 (29-30) Client Sample #: Sampled: 11/05/2019 1530

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloropropane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.2	ug/kg	1.1	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
2-Butanone	<22	ug/kg	11	22	43	43	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
2-Chlorotoluene	<2.2	ug/kg	1.1	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
2-Hexanone	<22	ug/kg	12	22	43	43	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
4-Chlorotoluene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
4-Methyl-2-pentanone	<22	ug/kg	11	22	43	43	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Acetone	<22	ug/kg	11	22	43	43	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Benzene	<1.1	ug/kg	0.32	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.54	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Bromoform	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Bromomethane	<2.2	ug/kg	0.75	2.2	4.3	4.3	1.00	U Z	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Carbon disulfide	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.32	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.54	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Chloromethane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
cis-1,2-Dichloroethene	***54.1***	ug/kg	0.43	1.1	2.2	2.2	1.00		11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.32	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356192 Sample Description: DPT-007 (29-30) Client Sample #: Sampled: 11/05/2019 1530

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromomethane	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Dichlorodifluoromethane	<2.2	ug/kg	1.1	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Hexachlorobutadiene	<2.2	ug/kg	1.1	2.2	4.3	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.32	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
m & p-Xylene	<2.2	ug/kg	0.75	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Methylene chloride	<2.2	ug/kg	1.8	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
n-Butylbenzene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
n-Propylbenzene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Naphthalene	<2.2	ug/kg	1.1	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
p-Isopropyltoluene	<2.2	ug/kg	1.1	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
sec-Butylbenzene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Styrene	<1.1	ug/kg	0.32	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
tert-Butylbenzene	<2.2	ug/kg	0.97	2.2	4.3	4.3	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Toluene	***0.755***	ug/kg	0.43	1.1	2.2	2.2	1.00	J	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.43	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Trichloroethene	***1760***	ug/kg	19	51	100	100	1.00		11/12/2019 10:40	11/18/19 22:07	DGS	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.54	1.1	2.2	2.2	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Vinyl Acetate	<22	ug/kg	13	22	43	43	1.00	U	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Vinyl chloride	***1.29***	ug/kg	0.54	1.1	2.2	2.2	1.00	J	11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 11:05	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356193 Sample Description: DPT-007 (31-32) Client Sample #: Sampled: 11/05/2019 1540

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***80.7***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.34	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.34	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.57	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,1-Dichloroethane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,1-Dichloroethene	***0.460***	ug/kg	0.46	1.1	2.3	2.3	1.00	J	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.57	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.3	ug/kg	0.92	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.3	ug/kg	1.5	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,2-Dibromoethane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.57	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,2-Dichloropropane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.3	ug/kg	1.1	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
2-Butanone	<23	ug/kg	11	23	46	46	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
2-Chlorotoluene	<2.3	ug/kg	1.1	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356193 Sample Description: DPT-007 (31-32) Client Sample #: Sampled: 11/05/2019 1540

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<23	ug/kg	13	23	46	46	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
4-Chlorotoluene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
4-Methyl-2-pentanone	<23	ug/kg	11	23	46	46	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Acetone	<23	ug/kg	11	23	46	46	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Benzene	***0.575***	ug/kg	0.34	1.1	2.3	2.3	1.00	J	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.57	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Bromoform	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Bromomethane	<2.3	ug/kg	0.80	2.3	4.6	4.6	1.00	U Z	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Carbon disulfide	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.34	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.57	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Chloromethane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
cis-1,2-Dichloroethene	***51.3***	ug/kg	0.46	1.1	2.3	2.3	1.00		11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.34	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Dibromomethane	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Dichlorodifluoromethane	<2.3	ug/kg	1.1	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Hexachlorobutadiene	<2.3	ug/kg	1.1	2.3	4.6	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.34	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
m & p-Xylene	<2.3	ug/kg	0.80	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Methylene chloride	<2.3	ug/kg	2.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
n-Butylbenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
n-Propylbenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356193 Sample Description: DPT-007 (31-32) Client Sample #: Sampled: 11/05/2019 1540

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<2.3	ug/kg	1.1	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
p-Isopropyltoluene	<2.3	ug/kg	1.1	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
sec-Butylbenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Styrene	<1.1	ug/kg	0.34	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
tert-Butylbenzene	<2.3	ug/kg	1.0	2.3	4.6	4.6	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Toluene	***0.460***	ug/kg	0.46	1.1	2.3	2.3	1.00	J	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.46	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Trichloroethene	***15600***	ug/kg	210	540	1100	1100	10.00		11/12/2019 10:40	11/19/19 12:52	DGS	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.57	1.1	2.3	2.3	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Vinyl Acetate	<23	ug/kg	14	23	46	46	1.00	U	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Vinyl chloride	***1.03***	ug/kg	0.57	1.1	2.3	2.3	1.00	J	11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
d8-Toluene	95	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 11:35	RLD	EPA 8260C

CT LAB#: 356194 Sample Description: DPT-004 (28-29) Client Sample #: Sampled: 11/06/2019 0900

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***84.0***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356194 Sample Description: DPT-004 (28-29) Client Sample #: Sampled: 11/06/2019 0900

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,1-Dichloroethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,1-Dichloroethene	***2.64***	ug/kg	0.42	1.1	2.1	2.1	1.00		11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,1-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.1	ug/kg	0.84	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.1	ug/kg	1.4	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,2-Dibromoethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,2-Dichloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,3-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
2,2-Dichloropropane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
2-Butanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
2-Chlorotoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
2-Hexanone	<21	ug/kg	12	21	42	42	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
4-Chlorotoluene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
4-Methyl-2-pentanone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Acetone	<21	ug/kg	11	21	42	42	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356194 Sample Description: DPT-004 (28-29) Client Sample #: Sampled: 11/06/2019 0900

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Bromobenzene	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Bromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Bromodichloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Bromoform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Bromomethane	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U Z	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Carbon disulfide	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Carbon tetrachloride	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Chlorobenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Chloroethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Chloroform	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Chloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
cis-1,2-Dichloroethene	***32.2***	ug/kg	0.42	1.1	2.1	2.1	1.00		11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Dibromochloromethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Dibromomethane	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Dichlorodifluoromethane	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Ethylbenzene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Hexachlorobutadiene	<2.1	ug/kg	1.1	2.1	4.2	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Isopropylbenzene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
m & p-Xylene	<2.1	ug/kg	0.74	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Methylene chloride	<2.1	ug/kg	1.8	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
n-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
n-Propylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Naphthalene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
o-Xylene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
p-Isopropyltoluene	<2.1	ug/kg	1.1	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
sec-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356194 Sample Description: DPT-004 (28-29) Client Sample #: Sampled: 11/06/2019 0900

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Styrene	<1.1	ug/kg	0.32	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
tert-Butylbenzene	<2.1	ug/kg	0.95	2.1	4.2	4.2	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Tetrachloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Toluene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.1	ug/kg	0.42	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Trichloroethene	***8370***	ug/kg	42	110	220	220	2.00		11/12/2019 10:40	11/18/19 23:04	DGS	EPA 8260C
Trichlorofluoromethane	<1.1	ug/kg	0.53	1.1	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Vinyl Acetate	<21	ug/kg	13	21	42	42	1.00	U	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Vinyl chloride	***0.633***	ug/kg	0.53	1.1	2.1	2.1	1.00	J	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
1,2 Dichloroethane-d4	105	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Bromofluorobenzene	120	% Recovery	79			119	1.00	S	11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
d8-Toluene	95	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 12:04	RLD	EPA 8260C

CT LAB#: 356195 Sample Description: DPT-004 (30-31) Client Sample #: Sampled: 11/06/2019 0910

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***85.7***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356195 Sample Description: DPT-004 (30-31) Client Sample #: Sampled: 11/06/2019 0910

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,1-Dichloroethene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,1-Dichloropropene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.5	ug/kg	0.99	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.5	ug/kg	1.6	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,2-Dibromoethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,2-Dichloroethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,2-Dichloropropane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,3-Dichloropropane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.5	ug/kg	1.2	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
2,2-Dichloropropane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
2-Butanone	<25	ug/kg	12	25	50	50	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
2-Chlorotoluene	<2.5	ug/kg	1.2	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
2-Hexanone	<25	ug/kg	14	25	50	50	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
4-Chlorotoluene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
4-Methyl-2-pentanone	<25	ug/kg	12	25	50	50	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Acetone	<25	ug/kg	12	25	50	50	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Benzene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Bromobenzene	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Bromochloromethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Bromodichloromethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356195 Sample Description: DPT-004 (30-31) Client Sample #: Sampled: 11/06/2019 0910

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromoform	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Bromomethane	<2.5	ug/kg	0.87	2.5	5.0	5.0	1.00	U Z	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Carbon disulfide	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Carbon tetrachloride	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Chlorobenzene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Chloroethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Chloroform	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Chloromethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
cis-1,2-Dichloroethene	***2.11***	ug/kg	0.50	1.2	2.5	2.5	1.00	J	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Dibromochloromethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Dibromomethane	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Dichlorodifluoromethane	<2.5	ug/kg	1.2	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Ethylbenzene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Hexachlorobutadiene	<2.5	ug/kg	1.2	2.5	5.0	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Isopropylbenzene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
m & p-Xylene	<2.5	ug/kg	0.87	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Methylene chloride	<2.5	ug/kg	2.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
n-Butylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
n-Propylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Naphthalene	<2.5	ug/kg	1.2	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
o-Xylene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
p-Isopropyltoluene	<2.5	ug/kg	1.2	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
sec-Butylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Styrene	<1.2	ug/kg	0.37	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
tert-Butylbenzene	<2.5	ug/kg	1.1	2.5	5.0	5.0	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Tetrachloroethene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Toluene	***0.619***	ug/kg	0.50	1.2	2.5	2.5	1.00	J	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356195 Sample Description: DPT-004 (30-31) Client Sample #: Sampled: 11/06/2019 0910

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.2	ug/kg	0.50	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Trichloroethene	***18.7***	ug/kg	0.37	1.2	2.5	2.5	1.00		11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Trichlorofluoromethane	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Vinyl Acetate	<25	ug/kg	15	25	50	50	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Vinyl chloride	<1.2	ug/kg	0.62	1.2	2.5	2.5	1.00	U	11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
1,2 Dichloroethane-d4	105	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Bromofluorobenzene	115	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 12:33	RLD	EPA 8260C

CT LAB#: 356196 Sample Description: DPT-004 (32-33) Client Sample #: Sampled: 11/06/2019 0920

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***83.8***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.81	ug/kg	0.41	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,1-Dichloroethane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,1-Dichloroethene	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,1-Dichloropropene	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356196 Sample Description: DPT-004 (32-33) Client Sample #: Sampled: 11/06/2019 0920

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichloropropane	<0.81	ug/kg	0.41	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.6	ug/kg	0.65	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.6	ug/kg	1.1	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,2-Dibromoethane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,2-Dichloroethane	<0.81	ug/kg	0.41	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,2-Dichloropropane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,3-Dichloropropane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.6	ug/kg	0.81	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
2,2-Dichloropropane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
2-Butanone	<16	ug/kg	8.1	16	33	33	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
2-Chlorotoluene	<1.6	ug/kg	0.81	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
2-Hexanone	<16	ug/kg	8.9	16	33	33	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
4-Chlorotoluene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
4-Methyl-2-pentanone	<16	ug/kg	8.1	16	33	33	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Acetone	***8.94***	ug/kg	8.1	16	33	33	1.00	J	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Benzene	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Bromobenzene	<0.81	ug/kg	0.41	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Bromochloromethane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Bromodichloromethane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Bromoform	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Bromomethane	<1.6	ug/kg	0.57	1.6	3.3	3.3	1.00	U Z	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Carbon disulfide	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Carbon tetrachloride	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356196 Sample Description: DPT-004 (32-33) Client Sample #: Sampled: 11/06/2019 0920

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chlorobenzene	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Chloroethane	<0.81	ug/kg	0.41	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Chloroform	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Chloromethane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Dibromochloromethane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Dibromomethane	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Dichlorodifluoromethane	<1.6	ug/kg	0.81	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Ethylbenzene	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Hexachlorobutadiene	<1.6	ug/kg	0.81	1.6	3.3	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Isopropylbenzene	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
m & p-Xylene	<1.6	ug/kg	0.57	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Methylene chloride	<1.6	ug/kg	1.4	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
n-Butylbenzene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
n-Propylbenzene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Naphthalene	<1.6	ug/kg	0.81	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
o-Xylene	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
p-Isopropyltoluene	<1.6	ug/kg	0.81	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
sec-Butylbenzene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Styrene	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
tert-Butylbenzene	<1.6	ug/kg	0.73	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Tetrachloroethene	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Toluene	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.81	ug/kg	0.33	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Trichloroethene	***0.894***	ug/kg	0.24	0.81	1.6	1.6	1.00	J	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Trichlorofluoromethane	<0.81	ug/kg	0.41	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356196 Sample Description: DPT-004 (32-33) Client Sample #: Sampled: 11/06/2019 0920

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl Acetate	<16	ug/kg	9.8	16	33	33	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Vinyl chloride	<0.81	ug/kg	0.41	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Bromofluorobenzene	125	% Recovery	79			119	1.00	S	11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C
Dibromofluoromethane	110	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 13:02	RLD	EPA 8260C

CT LAB#: 356197 Sample Description: DPT-008 (26-27) Client Sample #: Sampled: 11/06/2019 1050

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***81.5***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,1-Dichloroethane	***0.722***	ug/kg	0.41	1.0	2.1	2.1	1.00	J	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,1-Dichloroethene	***1.03***	ug/kg	0.41	1.0	2.1	2.1	1.00	J	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,1-Dichloropropene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.1	ug/kg	0.82	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.1	ug/kg	1.3	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356197 Sample Description: DPT-008 (26-27) Client Sample #: Sampled: 11/06/2019 1050

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,2-Dichloroethane	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,2-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,3-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
2,2-Dichloropropane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
2-Butanone	<21	ug/kg	10	21	41	41	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
2-Chlorotoluene	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
2-Hexanone	<21	ug/kg	11	21	41	41	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
4-Chlorotoluene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
4-Methyl-2-pentanone	<21	ug/kg	10	21	41	41	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Acetone	<21	ug/kg	10	21	41	41	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Benzene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Bromobenzene	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Bromochloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Bromodichloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Bromoform	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Bromomethane	<2.1	ug/kg	0.72	2.1	4.1	4.1	1.00	U Z	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Carbon disulfide	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Carbon tetrachloride	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Chlorobenzene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Chloroethane	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Chloroform	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Chloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356197 Sample Description: DPT-008 (26-27) Client Sample #: Sampled: 11/06/2019 1050

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	***82.6***	ug/kg	0.41	1.0	2.1	2.1	1.00		11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Dibromochloromethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Dibromomethane	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Dichlorodifluoromethane	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Ethylbenzene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Hexachlorobutadiene	<2.1	ug/kg	1.0	2.1	4.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Isopropylbenzene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
m & p-Xylene	<2.1	ug/kg	0.72	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Methylene chloride	<2.1	ug/kg	1.8	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
n-Butylbenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
n-Propylbenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Naphthalene	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
o-Xylene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
p-Isopropyltoluene	<2.1	ug/kg	1.0	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
sec-Butylbenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Styrene	<1.0	ug/kg	0.31	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
tert-Butylbenzene	<2.1	ug/kg	0.93	2.1	4.1	4.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Tetrachloroethene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Toluene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.0	ug/kg	0.41	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Trichloroethene	***1340***	ug/kg	39	100	210	210	2.00		11/12/2019 10:40	11/18/19 23:33	DGS	EPA 8260C
Trichlorofluoromethane	<1.0	ug/kg	0.52	1.0	2.1	2.1	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Vinyl Acetate	<21	ug/kg	12	21	41	41	1.00	U	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Vinyl chloride	***0.825***	ug/kg	0.52	1.0	2.1	2.1	1.00	J	11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
1,2 Dichloroethane-d4	105	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Bromofluorobenzene	95	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356197 Sample Description: DPT-008 (26-27) Client Sample #: Sampled: 11/06/2019 1050

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 13:31	RLD	EPA 8260C

CT LAB#: 356198 Sample Description: DPT-008 (27-28) Client Sample #: Sampled: 11/06/2019 1100

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***83.7***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<0.87	ug/kg	0.26	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.87	ug/kg	0.26	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.87	ug/kg	0.44	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,1-Dichloroethane	***0.437***	ug/kg	0.35	0.87	1.7	1.7	1.00	J	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,1-Dichloroethene	***0.524***	ug/kg	0.35	0.87	1.7	1.7	1.00	J	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,1-Dichloropropene	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.87	ug/kg	0.44	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.7	ug/kg	0.70	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.7	ug/kg	1.1	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,2-Dibromoethane	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,2-Dichloroethane	<0.87	ug/kg	0.44	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,2-Dichloropropane	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356198 Sample Description: DPT-008 (27-28) Client Sample #: Sampled: 11/06/2019 1100

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,3-Dichloropropane	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.7	ug/kg	0.87	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
2,2-Dichloropropane	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
2-Butanone	<17	ug/kg	8.7	17	35	35	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
2-Chlorotoluene	<1.7	ug/kg	0.87	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
2-Hexanone	<17	ug/kg	9.6	17	35	35	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
4-Chlorotoluene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
4-Methyl-2-pentanone	<17	ug/kg	8.7	17	35	35	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Acetone	<17	ug/kg	8.7	17	35	35	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Benzene	<0.87	ug/kg	0.26	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Bromobenzene	<0.87	ug/kg	0.44	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Bromochloromethane	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Bromodichloromethane	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Bromoform	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Bromomethane	<1.7	ug/kg	0.61	1.7	3.5	3.5	1.00	U Z	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Carbon disulfide	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Carbon tetrachloride	<0.87	ug/kg	0.26	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Chlorobenzene	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Chloroethane	<0.87	ug/kg	0.44	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Chloroform	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Chloromethane	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
cis-1,2-Dichloroethene	***40.4***	ug/kg	0.35	0.87	1.7	1.7	1.00		11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.87	ug/kg	0.26	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Dibromochloromethane	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Dibromomethane	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356198 Sample Description: DPT-008 (27-28) Client Sample #: Sampled: 11/06/2019 1100

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dichlorodifluoromethane	<1.7	ug/kg	0.87	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Ethylbenzene	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Hexachlorobutadiene	<1.7	ug/kg	0.87	1.7	3.5	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Isopropylbenzene	<0.87	ug/kg	0.26	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
m & p-Xylene	<1.7	ug/kg	0.61	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Methylene chloride	***1.66***	ug/kg	1.5	1.7	3.5	3.5	1.00	J	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
n-Butylbenzene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
n-Propylbenzene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Naphthalene	<1.7	ug/kg	0.87	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
o-Xylene	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
p-Isopropyltoluene	<1.7	ug/kg	0.87	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
sec-Butylbenzene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Styrene	<0.87	ug/kg	0.26	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
tert-Butylbenzene	<1.7	ug/kg	0.79	1.7	3.5	3.5	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Tetrachloroethene	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Toluene	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.87	ug/kg	0.35	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Trichloroethene	***497***	ug/kg	17	44	87	87	1.00	X	11/12/2019 10:40	11/13/19 14:00	DGS	EPA 8260C
Trichlorofluoromethane	<0.87	ug/kg	0.44	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Vinyl Acetate	<17	ug/kg	10	17	35	35	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Vinyl chloride	<0.87	ug/kg	0.44	0.87	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
1,2 Dichloroethane-d4	105	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 14:00	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356199 Sample Description: DPT-008 (29-30) Client Sample #: Sampled: 11/06/2019 1110

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***83.4***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1.0	ug/kg	0.50	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,1-Dichloroethane	***0.802***	ug/kg	0.40	1.0	2.0	2.0	1.00	J	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,1-Dichloroethene	***1.50***	ug/kg	0.40	1.0	2.0	2.0	1.00	J	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,1-Dichloropropene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,2,3-Trichloropropane	<1.0	ug/kg	0.50	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<2.0	ug/kg	0.80	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<2.0	ug/kg	1.3	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,2-Dibromoethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,2-Dichlorobenzene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,2-Dichloroethane	<1.0	ug/kg	0.50	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,2-Dichloropropane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,3-Dichlorobenzene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,3-Dichloropropane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,4-Dichlorobenzene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/kg	1.0	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
2,2-Dichloropropane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
2-Butanone	<20	ug/kg	10	20	40	40	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
2-Chlorotoluene	<2.0	ug/kg	1.0	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356199 Sample Description: DPT-008 (29-30) Client Sample #: Sampled: 11/06/2019 1110

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<20	ug/kg	11	20	40	40	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
4-Chlorotoluene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
4-Methyl-2-pentanone	<20	ug/kg	10	20	40	40	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Acetone	<20	ug/kg	10	20	40	40	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Benzene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Bromobenzene	<1.0	ug/kg	0.50	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Bromochloromethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Bromodichloromethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Bromoform	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Bromomethane	<2.0	ug/kg	0.70	2.0	4.0	4.0	1.00	U Z	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Carbon tetrachloride	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Chlorobenzene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Chloroethane	<1.0	ug/kg	0.50	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Chloroform	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Chloromethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
cis-1,2-Dichloroethene	***74.6***	ug/kg	23	42	85	85	1.00	J	11/12/2019 10:40	11/19/19 00:30	DGS	EPA 8260C
cis-1,3-Dichloropropene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Dibromochloromethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Dibromomethane	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Dichlorodifluoromethane	<2.0	ug/kg	1.0	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Ethylbenzene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Hexachlorobutadiene	<2.0	ug/kg	1.0	2.0	4.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Isopropylbenzene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
m & p-Xylene	<2.0	ug/kg	0.70	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Methylene chloride	<2.0	ug/kg	1.7	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
n-Butylbenzene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
n-Propylbenzene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356199 Sample Description: DPT-008 (29-30) Client Sample #: Sampled: 11/06/2019 1110

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<2.0	ug/kg	1.0	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
o-Xylene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
p-Isopropyltoluene	<2.0	ug/kg	1.0	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
sec-Butylbenzene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Styrene	<1.0	ug/kg	0.30	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
tert-Butylbenzene	<2.0	ug/kg	0.90	2.0	4.0	4.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Tetrachloroethene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Toluene	***0.501***	ug/kg	0.40	1.0	2.0	2.0	1.00	J	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1.0	ug/kg	0.40	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Trichloroethene	***1420***	ug/kg	16	42	85	85	1.00		11/12/2019 10:40	11/19/19 00:30	DGS	EPA 8260C
Trichlorofluoromethane	<1.0	ug/kg	0.50	1.0	2.0	2.0	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Vinyl Acetate	<20	ug/kg	12	20	40	40	1.00	U	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Vinyl chloride	***1.60***	ug/kg	0.50	1.0	2.0	2.0	1.00	J	11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Bromofluorobenzene	95	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 14:29	RLD	EPA 8260C

CT LAB#: 356200 Sample Description: DPT-010 (23-24) Client Sample #: Sampled: 11/06/2019 1200

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***84.9***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356200 Sample Description: DPT-010 (23-24) Client Sample #: Sampled: 11/06/2019 1200

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<0.91	ug/kg	0.27	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.91	ug/kg	0.27	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.91	ug/kg	0.46	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,1-Dichloroethane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,1-Dichloroethene	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,1-Dichloropropene	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.91	ug/kg	0.46	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.8	ug/kg	0.73	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.8	ug/kg	1.2	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,2-Dibromoethane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,2-Dichloroethane	<0.91	ug/kg	0.46	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,2-Dichloropropane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,3-Dichloropropane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.8	ug/kg	0.91	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
2,2-Dichloropropane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
2-Butanone	<18	ug/kg	9.1	18	37	37	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
2-Chlorotoluene	<1.8	ug/kg	0.91	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
2-Hexanone	<18	ug/kg	10	18	37	37	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
4-Chlorotoluene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
4-Methyl-2-pentanone	<18	ug/kg	9.1	18	37	37	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Acetone	<18	ug/kg	9.1	18	37	37	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356200 Sample Description: DPT-010 (23-24) Client Sample #: Sampled: 11/06/2019 1200

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzene	<0.91	ug/kg	0.27	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Bromobenzene	<0.91	ug/kg	0.46	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Bromochloromethane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Bromodichloromethane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Bromoform	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Bromomethane	<1.8	ug/kg	0.64	1.8	3.7	3.7	1.00	U Z	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Carbon disulfide	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Carbon tetrachloride	<0.91	ug/kg	0.27	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Chlorobenzene	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Chloroethane	<0.91	ug/kg	0.46	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Chloroform	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Chloromethane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
cis-1,2-Dichloroethene	***28.0***	ug/kg	0.37	0.91	1.8	1.8	1.00		11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.91	ug/kg	0.27	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Dibromochloromethane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Dibromomethane	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Dichlorodifluoromethane	<1.8	ug/kg	0.91	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Ethylbenzene	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Hexachlorobutadiene	<1.8	ug/kg	0.91	1.8	3.7	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Isopropylbenzene	<0.91	ug/kg	0.27	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
m & p-Xylene	<1.8	ug/kg	0.64	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Methylene chloride	<1.8	ug/kg	1.6	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
n-Butylbenzene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
n-Propylbenzene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Naphthalene	<1.8	ug/kg	0.91	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
o-Xylene	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
p-Isopropyltoluene	<1.8	ug/kg	0.91	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
sec-Butylbenzene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356200 Sample Description: DPT-010 (23-24) Client Sample #: Sampled: 11/06/2019 1200

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Styrene	<0.91	ug/kg	0.27	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
tert-Butylbenzene	<1.8	ug/kg	0.82	1.8	3.7	3.7	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Tetrachloroethene	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Toluene	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.91	ug/kg	0.37	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Trichloroethene	***1240***	ug/kg	19	51	100	100	1.00		11/12/2019 10:40	11/19/19 00:59	DGS	EPA 8260C
Trichlorofluoromethane	<0.91	ug/kg	0.46	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Vinyl Acetate	<18	ug/kg	11	18	37	37	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Vinyl chloride	<0.91	ug/kg	0.46	0.91	1.8	1.8	1.00	U	11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 14:58	RLD	EPA 8260C

CT LAB#: 356201 Sample Description: DPT-010 (28-29) Client Sample #: Sampled: 11/06/2019 1210

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***86.3***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356201 Sample Description: DPT-010 (28-29) Client Sample #: Sampled: 11/06/2019 1210

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,1-Dichloroethene	***1.99***	ug/kg	0.38	0.95	1.9	1.9	1.00		11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,1-Dichloropropene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.9	ug/kg	0.76	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.9	ug/kg	1.2	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,2-Dibromoethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,2-Dichloroethane	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,2-Dichloropropane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,3-Dichloropropane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.9	ug/kg	0.95	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
2,2-Dichloropropane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
2-Butanone	<19	ug/kg	9.5	19	38	38	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
2-Chlorotoluene	<1.9	ug/kg	0.95	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
2-Hexanone	<19	ug/kg	10	19	38	38	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
4-Chlorotoluene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
4-Methyl-2-pentanone	<19	ug/kg	9.5	19	38	38	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Acetone	<19	ug/kg	9.5	19	38	38	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Benzene	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Bromobenzene	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Bromochloromethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Bromodichloromethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356201 Sample Description: DPT-010 (28-29) Client Sample #: Sampled: 11/06/2019 1210

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromoform	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Bromomethane	<1.9	ug/kg	0.66	1.9	3.8	3.8	1.00	U Z	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Carbon disulfide	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Carbon tetrachloride	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Chlorobenzene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Chloroethane	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Chloroform	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Chloromethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
cis-1,2-Dichloroethene	***205***	ug/kg	26	47	95	95	1.00		11/12/2019 10:40	11/19/19 01:27	DGS	EPA 8260C
cis-1,3-Dichloropropene	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Dibromochloromethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Dibromomethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Dichlorodifluoromethane	<1.9	ug/kg	0.95	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Ethylbenzene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Hexachlorobutadiene	<1.9	ug/kg	0.95	1.9	3.8	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Isopropylbenzene	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
m & p-Xylene	<1.9	ug/kg	0.66	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Methylene chloride	<1.9	ug/kg	1.6	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
n-Butylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
n-Propylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Naphthalene	<1.9	ug/kg	0.95	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
o-Xylene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
p-Isopropyltoluene	<1.9	ug/kg	0.95	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
sec-Butylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Styrene	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
tert-Butylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Tetrachloroethene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Toluene	***1.23***	ug/kg	0.38	0.95	1.9	1.9	1.00	J	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356201 Sample Description: DPT-010 (28-29) Client Sample #: Sampled: 11/06/2019 1210

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	***0.474***	ug/kg	0.38	0.95	1.9	1.9	1.00	J	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Trichloroethene	***3180***	ug/kg	18	47	95	95	1.00		11/12/2019 10:40	11/19/19 01:27	DGS	EPA 8260C
Trichlorofluoromethane	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Vinyl Acetate	<19	ug/kg	11	19	38	38	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Vinyl chloride	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 15:27	RLD	EPA 8260C

CT LAB#: 356202 Sample Description: DPT-010 (32-33) Client Sample #: Sampled: 11/06/2019 1220

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***84.2***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,1-Dichloroethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,1-Dichloroethene	***2.93***	ug/kg	0.38	0.95	1.9	1.9	1.00		11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,1-Dichloropropene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356202 Sample Description: DPT-010 (32-33) Client Sample #: Sampled: 11/06/2019 1220

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichloropropane	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.9	ug/kg	0.76	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.9	ug/kg	1.2	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,2-Dibromoethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,2-Dichloroethane	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,2-Dichloropropane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,3-Dichloropropane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.9	ug/kg	0.95	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
2,2-Dichloropropane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
2-Butanone	<19	ug/kg	9.5	19	38	38	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
2-Chlorotoluene	<1.9	ug/kg	0.95	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
2-Hexanone	<19	ug/kg	10	19	38	38	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
4-Chlorotoluene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
4-Methyl-2-pentanone	<19	ug/kg	9.5	19	38	38	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Acetone	<19	ug/kg	9.5	19	38	38	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Benzene	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Bromobenzene	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Bromochloromethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Bromodichloromethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Bromoform	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Bromomethane	<1.9	ug/kg	0.66	1.9	3.8	3.8	1.00	U Z	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Carbon disulfide	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Carbon tetrachloride	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356202 Sample Description: DPT-010 (32-33) Client Sample #: Sampled: 11/06/2019 1220

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chlorobenzene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Chloroethane	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Chloroform	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Chloromethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
cis-1,2-Dichloroethene	***285***	ug/kg	56	100	210	210	2.00		11/12/2019 10:40	11/19/19 01:56	DGS	EPA 8260C
cis-1,3-Dichloropropene	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Dibromochloromethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Dibromomethane	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Dichlorodifluoromethane	<1.9	ug/kg	0.95	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Ethylbenzene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Hexachlorobutadiene	<1.9	ug/kg	0.95	1.9	3.8	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Isopropylbenzene	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
m & p-Xylene	<1.9	ug/kg	0.66	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Methylene chloride	<1.9	ug/kg	1.6	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
n-Butylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
n-Propylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Naphthalene	<1.9	ug/kg	0.95	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
o-Xylene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
p-Isopropyltoluene	<1.9	ug/kg	0.95	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
sec-Butylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Styrene	<0.95	ug/kg	0.28	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
tert-Butylbenzene	<1.9	ug/kg	0.85	1.9	3.8	3.8	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Tetrachloroethene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Toluene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
trans-1,2-Dichloroethene	***0.756***	ug/kg	0.38	0.95	1.9	1.9	1.00	J	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.95	ug/kg	0.38	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Trichloroethene	***4100***	ug/kg	39	100	210	210	2.00		11/12/2019 10:40	11/19/19 01:56	DGS	EPA 8260C
Trichlorofluoromethane	<0.95	ug/kg	0.47	0.95	1.9	1.9	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356202 Sample Description: DPT-010 (32-33) Client Sample #: Sampled: 11/06/2019 1220

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl Acetate	<19	ug/kg	11	19	38	38	1.00	U	11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Vinyl chloride	***29.8***	ug/kg	0.47	0.95	1.9	1.9	1.00		11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Bromofluorobenzene	95	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 15:56	RLD	EPA 8260C

CT LAB#: 356203 Sample Description: DUP-003 Client Sample #: Sampled: 11/06/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***84.3***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.81	ug/kg	0.40	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,1-Dichloroethane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,1-Dichloroethene	***2.26***	ug/kg	0.32	0.81	1.6	1.6	1.00		11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,1-Dichloropropene	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.81	ug/kg	0.40	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.6	ug/kg	0.64	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.6	ug/kg	1.0	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356203 Sample Description: DUP-003 Client Sample #: Sampled: 11/06/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,2-Dichloroethane	<0.81	ug/kg	0.40	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,2-Dichloropropane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,3-Dichloropropane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.6	ug/kg	0.81	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
2,2-Dichloropropane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
2-Butanone	<16	ug/kg	8.1	16	32	32	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
2-Chlorotoluene	<1.6	ug/kg	0.81	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
2-Hexanone	<16	ug/kg	8.9	16	32	32	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
4-Chlorotoluene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
4-Methyl-2-pentanone	<16	ug/kg	8.1	16	32	32	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Acetone	<16	ug/kg	8.1	16	32	32	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Benzene	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Bromobenzene	<0.81	ug/kg	0.40	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Bromochloromethane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Bromodichloromethane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Bromoform	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Bromomethane	<1.6	ug/kg	0.56	1.6	3.2	3.2	1.00	U Z	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Carbon disulfide	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Carbon tetrachloride	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Chlorobenzene	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Chloroethane	<0.81	ug/kg	0.40	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Chloroform	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Chloromethane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356203 Sample Description: DUP-003 Client Sample #: Sampled: 11/06/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	***281***	ug/kg	56	100	210	210	2.00		11/12/2019 10:40	11/19/19 02:24	DGS	EPA 8260C
cis-1,3-Dichloropropene	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Dibromochloromethane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Dibromomethane	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Dichlorodifluoromethane	<1.6	ug/kg	0.81	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Ethylbenzene	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Hexachlorobutadiene	<1.6	ug/kg	0.81	1.6	3.2	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Isopropylbenzene	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
m & p-Xylene	<1.6	ug/kg	0.56	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Methylene chloride	***1.45***	ug/kg	1.4	1.6	3.2	3.2	1.00	J	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
n-Butylbenzene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
n-Propylbenzene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Naphthalene	<1.6	ug/kg	0.81	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
o-Xylene	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
p-Isopropyltoluene	<1.6	ug/kg	0.81	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
sec-Butylbenzene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Styrene	<0.81	ug/kg	0.24	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
tert-Butylbenzene	<1.6	ug/kg	0.73	1.6	3.2	3.2	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Tetrachloroethene	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Toluene	***0.322***	ug/kg	0.32	0.81	1.6	1.6	1.00	J	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
trans-1,2-Dichloroethene	***0.564***	ug/kg	0.32	0.81	1.6	1.6	1.00	J	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.81	ug/kg	0.32	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Trichloroethene	***3910***	ug/kg	39	100	210	210	2.00		11/12/2019 10:40	11/19/19 02:24	DGS	EPA 8260C
Trichlorofluoromethane	<0.81	ug/kg	0.40	0.81	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Vinyl Acetate	<16	ug/kg	9.7	16	32	32	1.00	U	11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Vinyl chloride	***21.9***	ug/kg	0.40	0.81	1.6	1.6	1.00		11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
1,2 Dichloroethane-d4	105	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356203 Sample Description: DUP-003 Client Sample #: Sampled: 11/06/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 16:25	RLD	EPA 8260C

CT LAB#: 356204 Sample Description: DPT-011 (22-23) Client Sample #: Sampled: 11/06/2019 1340

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***85.3***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<0.77	ug/kg	0.23	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.77	ug/kg	0.23	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.77	ug/kg	0.39	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,1-Dichloroethane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,1-Dichloroethene	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,1-Dichloropropene	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.77	ug/kg	0.39	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.5	ug/kg	0.62	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.5	ug/kg	1.0	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,2-Dibromoethane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,2-Dichloroethane	<0.77	ug/kg	0.39	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,2-Dichloropropane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356204 Sample Description: DPT-011 (22-23) Client Sample #: Sampled: 11/06/2019 1340

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,3-Dichloropropane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.5	ug/kg	0.77	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
2,2-Dichloropropane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
2-Butanone	<15	ug/kg	7.7	15	31	31	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
2-Chlorotoluene	<1.5	ug/kg	0.77	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
2-Hexanone	<15	ug/kg	8.5	15	31	31	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
4-Chlorotoluene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
4-Methyl-2-pentanone	<15	ug/kg	7.7	15	31	31	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Acetone	<15	ug/kg	7.7	15	31	31	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Benzene	<0.77	ug/kg	0.23	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Bromobenzene	<0.77	ug/kg	0.39	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Bromochloromethane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Bromodichloromethane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Bromoform	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Bromomethane	<1.5	ug/kg	0.54	1.5	3.1	3.1	1.00	U Z	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Carbon disulfide	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Carbon tetrachloride	<0.77	ug/kg	0.23	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Chlorobenzene	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Chloroethane	<0.77	ug/kg	0.39	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Chloroform	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Chloromethane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
cis-1,2-Dichloroethene	***50.1***	ug/kg	0.31	0.77	1.5	1.5	1.00		11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.77	ug/kg	0.23	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Dibromochloromethane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Dibromomethane	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356204 Sample Description: DPT-011 (22-23) Client Sample #: Sampled: 11/06/2019 1340

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dichlorodifluoromethane	<1.5	ug/kg	0.77	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Ethylbenzene	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Hexachlorobutadiene	<1.5	ug/kg	0.77	1.5	3.1	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Isopropylbenzene	<0.77	ug/kg	0.23	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
m & p-Xylene	<1.5	ug/kg	0.54	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Methylene chloride	<1.5	ug/kg	1.3	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
n-Butylbenzene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
n-Propylbenzene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Naphthalene	<1.5	ug/kg	0.77	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
o-Xylene	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
p-Isopropyltoluene	<1.5	ug/kg	0.77	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
sec-Butylbenzene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Styrene	<0.77	ug/kg	0.23	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
tert-Butylbenzene	<1.5	ug/kg	0.69	1.5	3.1	3.1	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Tetrachloroethene	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Toluene	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.77	ug/kg	0.31	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Trichloroethene	***1100***	ug/kg	18	47	93	93	1.00		11/12/2019 10:40	11/19/19 10:00	DGS	EPA 8260C
Trichlorofluoromethane	<0.77	ug/kg	0.39	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Vinyl Acetate	<15	ug/kg	9.3	15	31	31	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Vinyl chloride	<0.77	ug/kg	0.39	0.77	1.5	1.5	1.00	U	11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
1,2 Dichloroethane-d4	115	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 16:54	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356205 Sample Description: DPT-011 (27-28) Client Sample #: Sampled: 11/06/2019 1350

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***89.8***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												
1,1,1,2-Tetrachloroethane	<0.86	ug/kg	0.26	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.86	ug/kg	0.26	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.86	ug/kg	0.43	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,1-Dichloroethane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,1-Dichloroethene	***0.601***	ug/kg	0.34	0.86	1.7	1.7	1.00	J	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,1-Dichloropropene	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.86	ug/kg	0.43	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.7	ug/kg	0.69	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.7	ug/kg	1.1	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,2-Dibromoethane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,2-Dichloroethane	<0.86	ug/kg	0.43	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,2-Dichloropropane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,3-Dichloropropane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.7	ug/kg	0.86	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
2,2-Dichloropropane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
2-Butanone	<17	ug/kg	8.6	17	34	34	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
2-Chlorotoluene	<1.7	ug/kg	0.86	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356205 Sample Description: DPT-011 (27-28) Client Sample #: Sampled: 11/06/2019 1350

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<17	ug/kg	9.5	17	34	34	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
4-Chlorotoluene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
4-Methyl-2-pentanone	<17	ug/kg	8.6	17	34	34	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Acetone	<17	ug/kg	8.6	17	34	34	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Benzene	<0.86	ug/kg	0.26	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Bromobenzene	<0.86	ug/kg	0.43	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Bromochloromethane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Bromodichloromethane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Bromoform	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Bromomethane	<1.7	ug/kg	0.60	1.7	3.4	3.4	1.00	U Z	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Carbon disulfide	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Carbon tetrachloride	<0.86	ug/kg	0.26	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Chlorobenzene	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Chloroethane	<0.86	ug/kg	0.43	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Chloroform	***0.430***	ug/kg	0.34	0.86	1.7	1.7	1.00	J	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Chloromethane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
cis-1,2-Dichloroethene	***105***	ug/kg	25	46	92	92	1.00		11/12/2019 10:40	11/19/19 13:21	DGS	EPA 8260C
cis-1,3-Dichloropropene	<0.86	ug/kg	0.26	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Dibromochloromethane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Dibromomethane	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Dichlorodifluoromethane	<1.7	ug/kg	0.86	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Ethylbenzene	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Hexachlorobutadiene	<1.7	ug/kg	0.86	1.7	3.4	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Isopropylbenzene	<0.86	ug/kg	0.26	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
m & p-Xylene	<1.7	ug/kg	0.60	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Methylene chloride	<1.7	ug/kg	1.5	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
n-Butylbenzene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
n-Propylbenzene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356205 Sample Description: DPT-011 (27-28) Client Sample #: Sampled: 11/06/2019 1350

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<1.7	ug/kg	0.86	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
o-Xylene	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
p-Isopropyltoluene	<1.7	ug/kg	0.86	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
sec-Butylbenzene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Styrene	<0.86	ug/kg	0.26	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
tert-Butylbenzene	<1.7	ug/kg	0.77	1.7	3.4	3.4	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Tetrachloroethene	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Toluene	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
trans-1,2-Dichloroethene	***0.430***	ug/kg	0.34	0.86	1.7	1.7	1.00	J	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.86	ug/kg	0.34	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Trichloroethene	***3810***	ug/kg	35	92	180	180	2.00		11/12/2019 10:40	11/19/19 10:29	DGS	EPA 8260C
Trichlorofluoromethane	<0.86	ug/kg	0.43	0.86	1.7	1.7	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Vinyl Acetate	<17	ug/kg	10	17	34	34	1.00	U	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Vinyl chloride	***1.03***	ug/kg	0.43	0.86	1.7	1.7	1.00	J	11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
1,2 Dichloroethane-d4	115	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 17:23	RLD	EPA 8260C

CT LAB#: 356206 Sample Description: DPT-011 (31-32) Client Sample #: Sampled: 11/06/2019 1400

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results												
Solids, Percent	***84.7***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C
Organic Results												

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356206 Sample Description: DPT-011 (31-32) Client Sample #: Sampled: 11/06/2019 1400

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<0.82	ug/kg	0.25	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.82	ug/kg	0.25	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.82	ug/kg	0.41	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,1-Dichloroethane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,1-Dichloroethene	***1.88***	ug/kg	0.33	0.82	1.6	1.6	1.00		11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,1-Dichloropropene	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,2,3-Trichloropropane	***1.96***	ug/kg	0.41	0.82	1.6	1.6	1.00		11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1.6	ug/kg	0.65	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1.6	ug/kg	1.1	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,2-Dibromoethane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,2-Dichlorobenzene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,2-Dichloroethane	<0.82	ug/kg	0.41	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,2-Dichloropropane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,3-Dichlorobenzene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,3-Dichloropropane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,4-Dichlorobenzene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1.6	ug/kg	0.82	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
2,2-Dichloropropane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
2-Butanone	***19.9***	ug/kg	8.2	16	33	33	1.00	J	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
2-Chlorotoluene	<1.6	ug/kg	0.82	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
2-Hexanone	<16	ug/kg	9.0	16	33	33	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
4-Chlorotoluene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
4-Methyl-2-pentanone	<16	ug/kg	8.2	16	33	33	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Acetone	<16	ug/kg	8.2	16	33	33	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356206 Sample Description: DPT-011 (31-32) Client Sample #: Sampled: 11/06/2019 1400

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzene	***0.572***	ug/kg	0.25	0.82	1.6	1.6	1.00	J	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Bromobenzene	<0.82	ug/kg	0.41	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Bromochloromethane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Bromodichloromethane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Bromoform	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Bromomethane	<1.6	ug/kg	0.57	1.6	3.3	3.3	1.00	U Z	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Carbon disulfide	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Carbon tetrachloride	<0.82	ug/kg	0.25	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Chlorobenzene	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Chloroethane	<0.82	ug/kg	0.41	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Chloroform	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Chloromethane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
cis-1,2-Dichloroethene	***229***	ug/kg	55	100	200	200	2.00		11/12/2019 10:40	11/19/19 10:57	DGS	EPA 8260C
cis-1,3-Dichloropropene	<0.82	ug/kg	0.25	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Dibromochloromethane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Dibromomethane	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Dichlorodifluoromethane	<1.6	ug/kg	0.82	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Ethylbenzene	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Hexachlorobutadiene	<1.6	ug/kg	0.82	1.6	3.3	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Isopropylbenzene	<0.82	ug/kg	0.25	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
m & p-Xylene	<1.6	ug/kg	0.57	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Methylene chloride	<1.6	ug/kg	1.4	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
n-Butylbenzene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
n-Propylbenzene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Naphthalene	<1.6	ug/kg	0.82	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
o-Xylene	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
p-Isopropyltoluene	<1.6	ug/kg	0.82	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
sec-Butylbenzene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356206 Sample Description: DPT-011 (31-32) Client Sample #: Sampled: 11/06/2019 1400

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Styrene	<0.82	ug/kg	0.25	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
tert-Butylbenzene	<1.6	ug/kg	0.74	1.6	3.3	3.3	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Tetrachloroethene	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Toluene	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
trans-1,2-Dichloroethene	***0.736***	ug/kg	0.33	0.82	1.6	1.6	1.00	J	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.82	ug/kg	0.33	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Trichloroethene	***3080***	ug/kg	38	100	200	200	2.00		11/12/2019 10:40	11/19/19 10:57	DGS	EPA 8260C
Trichlorofluoromethane	<0.82	ug/kg	0.41	0.82	1.6	1.6	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Vinyl Acetate	<16	ug/kg	9.8	16	33	33	1.00	U	11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Vinyl chloride	***10.3***	ug/kg	0.41	0.82	1.6	1.6	1.00		11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
1,2 Dichloroethane-d4	110	% Recovery	71			136	1.00		11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	79			119	1.00		11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
d8-Toluene	100	% Recovery	85			116	1.00		11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C
Dibromofluoromethane	105	% Recovery	78			119	1.00		11/12/2019 10:40	11/13/19 17:52	RLD	EPA 8260C

CT LAB#: 356207 Sample Description: DPT-002 Client Sample #: Sampled: 11/06/2019 1420

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356207 Sample Description: DPT-002 Client Sample #: Sampled: 11/06/2019 1420

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichlorobenzene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.60	ug/L	0.28	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,2-Dichloroethane	<0.60	ug/L	0.24	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,2-Dichloropropane	<0.60	ug/L	0.18	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,3-Dichloropropane	<0.30	ug/L	0.17	0.30	0.60	0.60	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/L	0.70	2.0	4.0	4.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
2,2-Dichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
2-Butanone	<6.0	ug/L	2.6	6.0	10	10	1.00	U		11/14/19 16:44	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
2-Hexanone	<6.0	ug/L	3.0	6.0	10	10	1.00	U		11/14/19 16:44	RLD	EPA 8260C
4-Chlorotoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	2.2	6.0	10	10	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Acetone	<10	ug/L	4.0	10	20	20	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Benzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Bromobenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Bromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Bromodichloromethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Bromoform	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Bromomethane	<2.0	ug/L	0.90	2.0	4.0	4.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/L	0.60	2.0	4.0	4.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356207 Sample Description: DPT-002 Client Sample #: Sampled: 11/06/2019 1420

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Carbon tetrachloride	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Chlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Chloroethane	<1.0	ug/L	0.50	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Chloromethane	<1.0	ug/L	0.60	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
cis-1,2-Dichloroethene	***0.99***	ug/L	0.30	0.60	1.0	1.0	1.00	J		11/14/19 16:44	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.30	ug/L	0.16	0.30	0.60	0.60	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Dibromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.22	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Dichlorodifluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Hexachlorobutadiene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Isopropylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	0.70	1.2	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Methylene chloride	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
n-Butylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U M		11/14/19 16:44	RLD	EPA 8260C
n-Propylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Naphthalene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
o-Xylene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
p-Isopropyltoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
sec-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U M,Z		11/14/19 16:44	RLD	EPA 8260C
Styrene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
tert-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Tetrachloroethene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Toluene	***0.71***	ug/L	0.21	0.60	1.0	1.0	1.00	J		11/14/19 16:44	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Trichloroethene	***29***	ug/L	0.30	0.60	1.0	1.0	1.00	M,Y		11/14/19 16:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356207 Sample Description: DPT-002 Client Sample #: Sampled: 11/06/2019 1420

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichlorofluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Vinyl Acetate	<10	ug/L	5.0	10	20	20	1.00	U		11/14/19 16:44	RLD	EPA 8260C
Vinyl chloride	<0.30	ug/L	0.14	0.30	0.60	0.60	1.00	U		11/14/19 16:44	RLD	EPA 8260C
1,2 Dichloroethane-d4	101	% Recovery	81			118	1.00			11/14/19 16:44	RLD	EPA 8260C
Bromofluorobenzene	102	% Recovery	85			114	1.00			11/14/19 16:44	RLD	EPA 8260C
d8-Toluene	98	% Recovery	89			112	1.00			11/14/19 16:44	RLD	EPA 8260C
Dibromofluoromethane	96	% Recovery	80			119	1.00			11/14/19 16:44	RLD	EPA 8260C

CT LAB#: 356208 Sample Description: DUP-004 Client Sample #: Sampled: 11/06/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.60	ug/L	0.28	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356208 Sample Description: DUP-004 Client Sample #: Sampled: 11/06/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.60	ug/L	0.24	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,2-Dichloropropane	<0.60	ug/L	0.18	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,3-Dichloropropane	<0.30	ug/L	0.17	0.30	0.60	0.60	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/L	0.70	2.0	4.0	4.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
2,2-Dichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
2-Butanone	<6.0	ug/L	2.6	6.0	10	10	1.00	U		11/14/19 17:14	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
2-Hexanone	<6.0	ug/L	3.0	6.0	10	10	1.00	U		11/14/19 17:14	RLD	EPA 8260C
4-Chlorotoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	2.2	6.0	10	10	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Acetone	<10	ug/L	4.0	10	20	20	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Benzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Bromobenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Bromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Bromodichloromethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Bromoform	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Bromomethane	<2.0	ug/L	0.90	2.0	4.0	4.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/L	0.60	2.0	4.0	4.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Chlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Chloroethane	<1.0	ug/L	0.50	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Chloromethane	<1.0	ug/L	0.60	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
cis-1,2-Dichloroethene	***1.1***	ug/L	0.30	0.60	1.0	1.0	1.00			11/14/19 17:14	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.30	ug/L	0.16	0.30	0.60	0.60	1.00	U		11/14/19 17:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356208 Sample Description: DUP-004 Client Sample #: Sampled: 11/06/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.22	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Dichlorodifluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Hexachlorobutadiene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Isopropylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	0.70	1.2	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Methylene chloride	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
n-Butylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
n-Propylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Naphthalene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
o-Xylene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
p-Isopropyltoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
sec-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U Z		11/14/19 17:14	RLD	EPA 8260C
Styrene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
tert-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Tetrachloroethene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Toluene	***0.74***	ug/L	0.21	0.60	1.0	1.0	1.00	J		11/14/19 17:14	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Trichloroethene	***32***	ug/L	0.30	0.60	1.0	1.0	1.00			11/14/19 17:14	RLD	EPA 8260C
Trichlorofluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Vinyl Acetate	<10	ug/L	5.0	10	20	20	1.00	U		11/14/19 17:14	RLD	EPA 8260C
Vinyl chloride	<0.30	ug/L	0.14	0.30	0.60	0.60	1.00	U		11/14/19 17:14	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	81			118	1.00			11/14/19 17:14	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	85			114	1.00			11/14/19 17:14	RLD	EPA 8260C
d8-Toluene	100	% Recovery	89			112	1.00			11/14/19 17:14	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	80			119	1.00			11/14/19 17:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356209 Sample Description: DPT-003 Client Sample #: Sampled: 11/06/2019 1500

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,1,1-Trichloroethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,1,2-Trichloroethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,1-Dichloroethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,1-Dichloroethene	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,1-Dichloropropene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<30	ug/L	12	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,2,3-Trichloropropane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<30	ug/L	14	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<30	ug/L	13	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,2-Dibromoethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,2-Dichlorobenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,2-Dichloroethane	<30	ug/L	12	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,2-Dichloropropane	<30	ug/L	9.0	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<30	ug/L	14	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,3-Dichlorobenzene	<30	ug/L	13	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,3-Dichloropropane	<15	ug/L	8.5	15	30	30	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,4-Dichlorobenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
112Trichloro122trifluoroethane	<100	ug/L	35	100	200	200	50.00	U		11/14/19 18:13	RLD	EPA 8260C
2,2-Dichloropropane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
2-Butanone	<300	ug/L	130	300	500	500	50.00	U		11/14/19 18:13	RLD	EPA 8260C
2-Chlorotoluene	<30	ug/L	13	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
2-Hexanone	<300	ug/L	150	300	500	500	50.00	U		11/14/19 18:13	RLD	EPA 8260C
4-Chlorotoluene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
4-Methyl-2-pentanone	<300	ug/L	110	300	500	500	50.00	U		11/14/19 18:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356209 Sample Description: DPT-003 Client Sample #: Sampled: 11/06/2019 1500

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acetone	<500	ug/L	200	500	1000	1000	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Benzene	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Bromobenzene	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Bromochloromethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Bromodichloromethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Bromoform	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Bromomethane	<100	ug/L	45	100	200	200	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Carbon disulfide	<100	ug/L	30	100	200	200	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Carbon tetrachloride	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Chlorobenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Chloroethane	<50	ug/L	25	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Chloroform	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Chloromethane	<50	ug/L	30	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
cis-1,2-Dichloroethene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
cis-1,3-Dichloropropene	<15	ug/L	8.0	15	30	30	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Dibromochloromethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Dibromomethane	<30	ug/L	11	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Dichlorodifluoromethane	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Ethylbenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Hexachlorobutadiene	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Isopropylbenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
m & p-Xylene	<60	ug/L	35	60	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Methylene chloride	***23***	ug/L	20	50	100	100	50.00	J		11/14/19 18:13	RLD	EPA 8260C
n-Butylbenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
n-Propylbenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Naphthalene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
o-Xylene	<30	ug/L	13	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
p-Isopropyltoluene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356209 Sample Description: DPT-003 Client Sample #: Sampled: 11/06/2019 1500

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
sec-Butylbenzene	<50	ug/L	20	50	100	100	50.00	U Z		11/14/19 18:13	RLD	EPA 8260C
Styrene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
tert-Butylbenzene	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Tetrachloroethene	<30	ug/L	14	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Toluene	<30	ug/L	11	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
trans-1,2-Dichloroethene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
trans-1,3-Dichloropropene	<30	ug/L	12	30	50	50	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Trichloroethene	***760***	ug/L	15	30	50	50	50.00			11/14/19 18:13	RLD	EPA 8260C
Trichlorofluoromethane	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Vinyl Acetate	<500	ug/L	250	500	1000	1000	50.00	U		11/14/19 18:13	RLD	EPA 8260C
Vinyl chloride	<15	ug/L	7.0	15	30	30	50.00	U		11/14/19 18:13	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	81			118	1.00			11/14/19 18:13	RLD	EPA 8260C
Bromofluorobenzene	101	% Recovery	85			114	1.00			11/14/19 18:13	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/14/19 18:13	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	80			119	1.00			11/14/19 18:13	RLD	EPA 8260C

CT LAB#: 356210 Sample Description: DPT-004 Client Sample #: Sampled: 11/06/2019 1515

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,1-Dichloroethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,1-Dichloroethene	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356210 Sample Description: DPT-004 Client Sample #: Sampled: 11/06/2019 1515

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloropropene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<30	ug/L	12	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<30	ug/L	14	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<30	ug/L	13	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,2-Dibromoethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,2-Dichloroethane	<30	ug/L	12	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,2-Dichloropropane	<30	ug/L	9.0	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<30	ug/L	14	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<30	ug/L	13	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,3-Dichloropropane	<15	ug/L	8.5	15	30	30	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,4-Dichlorobenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
112Trichloro122trifluoroethane	<100	ug/L	35	100	200	200	50.00	U		11/14/19 18:43	RLD	EPA 8260C
2,2-Dichloropropane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
2-Butanone	<300	ug/L	130	300	500	500	50.00	U		11/14/19 18:43	RLD	EPA 8260C
2-Chlorotoluene	<30	ug/L	13	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
2-Hexanone	<300	ug/L	150	300	500	500	50.00	U		11/14/19 18:43	RLD	EPA 8260C
4-Chlorotoluene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
4-Methyl-2-pentanone	<300	ug/L	110	300	500	500	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Acetone	<500	ug/L	200	500	1000	1000	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Benzene	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Bromobenzene	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Bromochloromethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Bromodichloromethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Bromoform	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Bromomethane	<100	ug/L	45	100	200	200	50.00	U		11/14/19 18:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356210 Sample Description: DPT-004 Client Sample #: Sampled: 11/06/2019 1515

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Carbon disulfide	<100	ug/L	30	100	200	200	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Carbon tetrachloride	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Chlorobenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Chloroethane	<50	ug/L	25	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Chloroform	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Chloromethane	<50	ug/L	30	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	***24***	ug/L	15	30	50	50	50.00	J		11/14/19 18:43	RLD	EPA 8260C
cis-1,3-Dichloropropene	<15	ug/L	8.0	15	30	30	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Dibromochloromethane	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Dibromomethane	<30	ug/L	11	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Dichlorodifluoromethane	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Ethylbenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Hexachlorobutadiene	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Isopropylbenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
m & p-Xylene	<60	ug/L	35	60	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Methylene chloride	***24***	ug/L	20	50	100	100	50.00	J		11/14/19 18:43	RLD	EPA 8260C
n-Butylbenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
n-Propylbenzene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Naphthalene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
o-Xylene	<30	ug/L	13	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
p-Isopropyltoluene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
sec-Butylbenzene	<50	ug/L	20	50	100	100	50.00	U Z		11/14/19 18:43	RLD	EPA 8260C
Styrene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
tert-Butylbenzene	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Tetrachloroethene	<30	ug/L	14	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Toluene	<30	ug/L	11	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
trans-1,2-Dichloroethene	<30	ug/L	15	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C
trans-1,3-Dichloropropene	<30	ug/L	12	30	50	50	50.00	U		11/14/19 18:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356210 Sample Description: DPT-004 Client Sample #: Sampled: 11/06/2019 1515

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	***820***	ug/L	15	30	50	50	50.00			11/14/19 18:43	RLD	EPA 8260C
Trichlorofluoromethane	<50	ug/L	20	50	100	100	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Vinyl Acetate	<500	ug/L	250	500	1000	1000	50.00	U		11/14/19 18:43	RLD	EPA 8260C
Vinyl chloride	<15	ug/L	7.0	15	30	30	50.00	U		11/14/19 18:43	RLD	EPA 8260C
1,2 Dichloroethane-d4	98	% Recovery	81			118	1.00			11/14/19 18:43	RLD	EPA 8260C
Bromofluorobenzene	102	% Recovery	85			114	1.00			11/14/19 18:43	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/14/19 18:43	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	80			119	1.00			11/14/19 18:43	RLD	EPA 8260C

CT LAB#: 356211 Sample Description: DPT-009 Client Sample #: Sampled: 11/06/2019 1525

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.60	ug/L	0.28	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356211 Sample Description: DPT-009 Client Sample #: Sampled: 11/06/2019 1525

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,2-Dichloroethane	<0.60	ug/L	0.24	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,2-Dichloropropane	<0.60	ug/L	0.18	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,3-Dichloropropane	<0.30	ug/L	0.17	0.30	0.60	0.60	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/L	0.70	2.0	4.0	4.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
2,2-Dichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
2-Butanone	<6.0	ug/L	2.6	6.0	10	10	1.00	U		11/14/19 17:44	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
2-Hexanone	<6.0	ug/L	3.0	6.0	10	10	1.00	U		11/14/19 17:44	RLD	EPA 8260C
4-Chlorotoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	2.2	6.0	10	10	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Acetone	***5.3***	ug/L	4.0	10	20	20	1.00	J		11/14/19 17:44	RLD	EPA 8260C
Benzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Bromobenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Bromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Bromodichloromethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Bromoform	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Bromomethane	<2.0	ug/L	0.90	2.0	4.0	4.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/L	0.60	2.0	4.0	4.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Chlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Chloroethane	<1.0	ug/L	0.50	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Chloromethane	<1.0	ug/L	0.60	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
cis-1,2-Dichloroethene	***3.0***	ug/L	0.30	0.60	1.0	1.0	1.00			11/14/19 17:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356211 Sample Description: DPT-009 Client Sample #: Sampled: 11/06/2019 1525

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,3-Dichloropropene	<0.30	ug/L	0.16	0.30	0.60	0.60	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Dibromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.22	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Dichlorodifluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Hexachlorobutadiene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Isopropylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	0.70	1.2	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Methylene chloride	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
n-Butylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
n-Propylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Naphthalene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
o-Xylene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
p-Isopropyltoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
sec-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U Z		11/14/19 17:44	RLD	EPA 8260C
Styrene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
tert-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Tetrachloroethene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Toluene	<0.60	ug/L	0.21	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Trichloroethene	***93***	ug/L	1.5	3.0	5.0	5.0	5.00			11/15/19 13:41	DGS	EPA 8260C
Trichlorofluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Vinyl Acetate	<10	ug/L	5.0	10	20	20	1.00	U		11/14/19 17:44	RLD	EPA 8260C
Vinyl chloride	<0.30	ug/L	0.14	0.30	0.60	0.60	1.00	U		11/14/19 17:44	RLD	EPA 8260C
1,2 Dichloroethane-d4	107	% Recovery	81			118	1.00			11/14/19 17:44	RLD	EPA 8260C
Bromofluorobenzene	102	% Recovery	85			114	1.00			11/14/19 17:44	RLD	EPA 8260C
d8-Toluene	100	% Recovery	89			112	1.00			11/14/19 17:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356211 Sample Description: DPT-009 Client Sample #: Sampled: 11/06/2019 1525

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromofluoromethane	99	% Recovery	80			119	1.00			11/14/19 17:44	RLD	EPA 8260C

CT LAB#: 356212 Sample Description: DPT-006 Client Sample #: Sampled: 11/06/2019 1540

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,1,1-Trichloroethane	<6.0	ug/L	2.9	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,1,2-Trichloroethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,1-Dichloroethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,1-Dichloroethene	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,1-Dichloropropene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<6.0	ug/L	2.3	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,2,3-Trichloropropane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<6.0	ug/L	2.8	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<6.0	ug/L	2.9	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<6.0	ug/L	2.5	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,2-Dibromoethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,2-Dichlorobenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,2-Dichloroethane	<6.0	ug/L	2.4	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,2-Dichloropropane	<6.0	ug/L	1.8	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<6.0	ug/L	2.7	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,3-Dichlorobenzene	<6.0	ug/L	2.6	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,3-Dichloropropane	<3.0	ug/L	1.7	3.0	6.0	6.0	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,4-Dichlorobenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356212 Sample Description: DPT-006 Client Sample #: Sampled: 11/06/2019 1540

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
112Trichloro122trifluoroethane	<20	ug/L	7.0	20	40	40	10.00	U		11/14/19 19:12	RLD	EPA 8260C
2,2-Dichloropropane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
2-Butanone	<60	ug/L	26	60	100	100	10.00	U		11/14/19 19:12	RLD	EPA 8260C
2-Chlorotoluene	<6.0	ug/L	2.5	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
2-Hexanone	<60	ug/L	30	60	100	100	10.00	U		11/14/19 19:12	RLD	EPA 8260C
4-Chlorotoluene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
4-Methyl-2-pentanone	<60	ug/L	22	60	100	100	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Acetone	<100	ug/L	40	100	200	200	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Benzene	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Bromobenzene	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Bromochloromethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Bromodichloromethane	<6.0	ug/L	2.9	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Bromoform	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Bromomethane	<20	ug/L	9.0	20	40	40	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Carbon disulfide	<20	ug/L	6.0	20	40	40	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Carbon tetrachloride	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Chlorobenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Chloroethane	<10	ug/L	5.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Chloroform	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Chloromethane	<10	ug/L	6.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
cis-1,2-Dichloroethene	***4.2***	ug/L	3.0	6.0	10	10	10.00	J		11/14/19 19:12	RLD	EPA 8260C
cis-1,3-Dichloropropene	<3.0	ug/L	1.6	3.0	6.0	6.0	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Dibromochloromethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Dibromomethane	<6.0	ug/L	2.2	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Dichlorodifluoromethane	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Ethylbenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Hexachlorobutadiene	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Isopropylbenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356212 Sample Description: DPT-006 Client Sample #: Sampled: 11/06/2019 1540

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<12	ug/L	7.0	12	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Methylene chloride	***6.6***	ug/L	4.0	10	20	20	10.00	J		11/14/19 19:12	RLD	EPA 8260C
n-Butylbenzene	<6.0	ug/L	2.9	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
n-Propylbenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Naphthalene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
o-Xylene	<6.0	ug/L	2.6	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
p-Isopropyltoluene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
sec-Butylbenzene	<10	ug/L	4.0	10	20	20	10.00	U Z		11/14/19 19:12	RLD	EPA 8260C
Styrene	<6.0	ug/L	2.9	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
tert-Butylbenzene	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Tetrachloroethene	<6.0	ug/L	2.7	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Toluene	<6.0	ug/L	2.1	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
trans-1,2-Dichloroethene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
trans-1,3-Dichloropropene	<6.0	ug/L	2.3	6.0	10	10	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Trichloroethene	***230***	ug/L	3.0	6.0	10	10	10.00			11/14/19 19:12	RLD	EPA 8260C
Trichlorofluoromethane	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Vinyl Acetate	<100	ug/L	50	100	200	200	10.00	U		11/14/19 19:12	RLD	EPA 8260C
Vinyl chloride	<3.0	ug/L	1.4	3.0	6.0	6.0	10.00	U		11/14/19 19:12	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	81			118	1.00			11/14/19 19:12	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	85			114	1.00			11/14/19 19:12	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/14/19 19:12	RLD	EPA 8260C
Dibromofluoromethane	95	% Recovery	80			119	1.00			11/14/19 19:12	RLD	EPA 8260C

CT LAB#: 356213 Sample Description: DPT-007 Client Sample #: Sampled: 11/06/2019 1550

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356213 Sample Description: DPT-007 Client Sample #: Sampled: 11/06/2019 1550

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,1,1-Trichloroethane	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,1,2-Trichloroethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,1-Dichloroethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,1-Dichloroethene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,1-Dichloropropene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1200	ug/L	460	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,2,3-Trichloropropane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1200	ug/L	560	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1200	ug/L	500	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,2-Dibromoethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,2-Dichlorobenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,2-Dichloroethane	<1200	ug/L	480	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,2-Dichloropropane	<1200	ug/L	360	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1200	ug/L	540	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,3-Dichlorobenzene	<1200	ug/L	520	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,3-Dichloropropane	<600	ug/L	340	600	1200	1200	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,4-Dichlorobenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
112Trichloro122trifluoroethane	<4000	ug/L	1400	4000	8000	8000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
2,2-Dichloropropane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
2-Butanone	<12000	ug/L	5200	12000	20000	20000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
2-Chlorotoluene	<1200	ug/L	500	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
2-Hexanone	<12000	ug/L	6000	12000	20000	20000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
4-Chlorotoluene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
4-Methyl-2-pentanone	<12000	ug/L	4400	12000	20000	20000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356213 Sample Description: DPT-007 Client Sample #: Sampled: 11/06/2019 1550

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acetone	<20000	ug/L	8000	20000	40000	40000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Benzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Bromobenzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Bromochloromethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Bromodichloromethane	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Bromoform	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Bromomethane	<4000	ug/L	1800	4000	8000	8000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Carbon disulfide	<4000	ug/L	1200	4000	8000	8000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Carbon tetrachloride	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Chlorobenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Chloroethane	<2000	ug/L	1000	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Chloroform	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Chloromethane	<2000	ug/L	1200	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
cis-1,2-Dichloroethene	***840***	ug/L	600	1200	2000	2000	2,000.00	J		11/14/19 19:42	RLD	EPA 8260C
cis-1,3-Dichloropropene	<600	ug/L	320	600	1200	1200	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Dibromochloromethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Dibromomethane	<1200	ug/L	440	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Dichlorodifluoromethane	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Ethylbenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Hexachlorobutadiene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Isopropylbenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
m & p-Xylene	<2400	ug/L	1400	2400	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Methylene chloride	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
n-Butylbenzene	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
n-Propylbenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Naphthalene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
o-Xylene	<1200	ug/L	520	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
p-Isopropyltoluene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356213 Sample Description: DPT-007 Client Sample #: Sampled: 11/06/2019 1550

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
sec-Butylbenzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U Z		11/14/19 19:42	RLD	EPA 8260C
Styrene	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
tert-Butylbenzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Tetrachloroethene	<1200	ug/L	540	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Toluene	<1200	ug/L	420	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1200	ug/L	460	1200	2000	2000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Trichloroethene	***77000***	ug/L	600	1200	2000	2000	2,000.00			11/14/19 19:42	RLD	EPA 8260C
Trichlorofluoromethane	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Vinyl Acetate	<20000	ug/L	10000	20000	40000	40000	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
Vinyl chloride	<600	ug/L	280	600	1200	1200	2,000.00	U		11/14/19 19:42	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	81			118	1.00			11/14/19 19:42	RLD	EPA 8260C
Bromofluorobenzene	101	% Recovery	85			114	1.00			11/14/19 19:42	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/14/19 19:42	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	80			119	1.00			11/14/19 19:42	RLD	EPA 8260C

CT LAB#: 356214 Sample Description: DPT-001 Client Sample #: Sampled: 11/07/2019 0720

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<20	ug/L	8.0	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,1,1-Trichloroethane	<12	ug/L	5.8	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,1,2-Trichloroethane	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,1-Dichloroethane	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,1-Dichloroethene	<20	ug/L	8.0	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356214 Sample Description: DPT-001 Client Sample #: Sampled: 11/07/2019 0720

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloropropene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<12	ug/L	4.6	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,2,3-Trichloropropane	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<12	ug/L	5.6	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<12	ug/L	5.8	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<12	ug/L	5.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,2-Dibromoethane	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,2-Dichlorobenzene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,2-Dichloroethane	<12	ug/L	4.8	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,2-Dichloropropane	<12	ug/L	3.6	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<12	ug/L	5.4	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,3-Dichlorobenzene	<12	ug/L	5.2	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,3-Dichloropropane	<6.0	ug/L	3.4	6.0	12	12	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,4-Dichlorobenzene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
112Trichloro122trifluoroethane	<40	ug/L	14	40	80	80	20.00	U		11/14/19 20:13	RLD	EPA 8260C
2,2-Dichloropropane	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
2-Butanone	<120	ug/L	52	120	200	200	20.00	U		11/14/19 20:13	RLD	EPA 8260C
2-Chlorotoluene	<12	ug/L	5.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
2-Hexanone	<120	ug/L	60	120	200	200	20.00	U		11/14/19 20:13	RLD	EPA 8260C
4-Chlorotoluene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
4-Methyl-2-pentanone	<120	ug/L	44	120	200	200	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Acetone	<200	ug/L	80	200	400	400	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Benzene	<20	ug/L	8.0	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Bromobenzene	<20	ug/L	8.0	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Bromochloromethane	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Bromodichloromethane	<12	ug/L	5.8	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Bromoform	<20	ug/L	8.0	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Bromomethane	<40	ug/L	18	40	80	80	20.00	U		11/14/19 20:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356214 Sample Description: DPT-001 Client Sample #: Sampled: 11/07/2019 0720

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Carbon disulfide	<40	ug/L	12	40	80	80	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Carbon tetrachloride	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Chlorobenzene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Chloroethane	<20	ug/L	10	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Chloroform	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Chloromethane	<20	ug/L	12	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
cis-1,2-Dichloroethene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
cis-1,3-Dichloropropene	<6.0	ug/L	3.2	6.0	12	12	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Dibromochloromethane	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Dibromomethane	<12	ug/L	4.4	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Dichlorodifluoromethane	<20	ug/L	8.0	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Ethylbenzene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Hexachlorobutadiene	<20	ug/L	8.0	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Isopropylbenzene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
m & p-Xylene	<24	ug/L	14	24	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Methylene chloride	<20	ug/L	8.0	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
n-Butylbenzene	<12	ug/L	5.8	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
n-Propylbenzene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Naphthalene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
o-Xylene	<12	ug/L	5.2	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
p-Isopropyltoluene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
sec-Butylbenzene	<20	ug/L	8.0	20	40	40	20.00	U Z		11/14/19 20:13	RLD	EPA 8260C
Styrene	<12	ug/L	5.8	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
tert-Butylbenzene	<20	ug/L	8.0	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Tetrachloroethene	<12	ug/L	5.4	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Toluene	<12	ug/L	4.2	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
trans-1,2-Dichloroethene	<12	ug/L	6.0	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C
trans-1,3-Dichloropropene	<12	ug/L	4.6	12	20	20	20.00	U		11/14/19 20:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356214 Sample Description: DPT-001 Client Sample #: Sampled: 11/07/2019 0720

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Trichloroethene	***430***	ug/L	6.0	12	20	20	20.00			11/14/19 20:13	RLD	EPA 8260C
Trichlorofluoromethane	<20	ug/L	8.0	20	40	40	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Vinyl Acetate	<200	ug/L	100	200	400	400	20.00	U		11/14/19 20:13	RLD	EPA 8260C
Vinyl chloride	<6.0	ug/L	2.8	6.0	12	12	20.00	U		11/14/19 20:13	RLD	EPA 8260C
1,2 Dichloroethane-d4	101	% Recovery	81			118	1.00			11/14/19 20:13	RLD	EPA 8260C
Bromofluorobenzene	102	% Recovery	85			114	1.00			11/14/19 20:13	RLD	EPA 8260C
d8-Toluene	96	% Recovery	89			112	1.00			11/14/19 20:13	RLD	EPA 8260C
Dibromofluoromethane	95	% Recovery	80			119	1.00			11/14/19 20:13	RLD	EPA 8260C
1,4-Dioxane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U	11/14/2019 08:00	11/22/19 13:32	RPN	EPA 8270D-SIM
1,4-Dioxane-d8	74	% Recovery	50			150	1.00		11/14/2019 08:00	11/22/19 13:32	RPN	EPA 8270D-SIM

CT LAB#: 356215 Sample Description: DPT-005 Client Sample #: Sampled: 11/07/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<200	ug/L	80	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<120	ug/L	58	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,1-Dichloroethane	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,1-Dichloroethene	<200	ug/L	80	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,1-Dichloropropene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<120	ug/L	46	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<120	ug/L	56	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<120	ug/L	58	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356215 Sample Description: DPT-005 Client Sample #: Sampled: 11/07/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromo-3-chloropropane	<120	ug/L	50	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,2-Dibromoethane	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,2-Dichloroethane	<120	ug/L	48	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,2-Dichloropropane	<120	ug/L	36	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<120	ug/L	54	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<120	ug/L	52	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,3-Dichloropropane	<60	ug/L	34	60	120	120	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,4-Dichlorobenzene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
112Trichloro122trifluoroethane	<400	ug/L	140	400	800	800	200.00	U		11/14/19 20:43	RLD	EPA 8260C
2,2-Dichloropropane	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
2-Butanone	<1200	ug/L	520	1200	2000	2000	200.00	U		11/14/19 20:43	RLD	EPA 8260C
2-Chlorotoluene	<120	ug/L	50	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
2-Hexanone	<1200	ug/L	600	1200	2000	2000	200.00	U		11/14/19 20:43	RLD	EPA 8260C
4-Chlorotoluene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
4-Methyl-2-pentanone	<1200	ug/L	440	1200	2000	2000	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Acetone	<2000	ug/L	800	2000	4000	4000	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Benzene	<200	ug/L	80	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Bromobenzene	<200	ug/L	80	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Bromochloromethane	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Bromodichloromethane	<120	ug/L	58	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Bromoform	<200	ug/L	80	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Bromomethane	<400	ug/L	180	400	800	800	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Carbon disulfide	<400	ug/L	120	400	800	800	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Carbon tetrachloride	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Chlorobenzene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Chloroethane	<200	ug/L	100	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Chloroform	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356215 Sample Description: DPT-005 Client Sample #: Sampled: 11/07/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloromethane	<200	ug/L	120	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	***93***	ug/L	60	120	200	200	200.00	J		11/14/19 20:43	RLD	EPA 8260C
cis-1,3-Dichloropropene	<60	ug/L	32	60	120	120	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Dibromochloromethane	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Dibromomethane	<120	ug/L	44	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Dichlorodifluoromethane	<200	ug/L	80	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Ethylbenzene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Hexachlorobutadiene	<200	ug/L	80	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Isopropylbenzene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
m & p-Xylene	<240	ug/L	140	240	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Methylene chloride	***94***	ug/L	80	200	400	400	200.00	J		11/14/19 20:43	RLD	EPA 8260C
n-Butylbenzene	<120	ug/L	58	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
n-Propylbenzene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Naphthalene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
o-Xylene	<120	ug/L	52	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
p-Isopropyltoluene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
sec-Butylbenzene	<200	ug/L	80	200	400	400	200.00	U Z		11/14/19 20:43	RLD	EPA 8260C
Styrene	<120	ug/L	58	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
tert-Butylbenzene	<200	ug/L	80	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Tetrachloroethene	<120	ug/L	54	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Toluene	<120	ug/L	42	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
trans-1,2-Dichloroethene	<120	ug/L	60	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
trans-1,3-Dichloropropene	<120	ug/L	46	120	200	200	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Trichloroethene	***5400***	ug/L	60	120	200	200	200.00			11/14/19 20:43	RLD	EPA 8260C
Trichlorofluoromethane	<200	ug/L	80	200	400	400	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Vinyl Acetate	<2000	ug/L	1000	2000	4000	4000	200.00	U		11/14/19 20:43	RLD	EPA 8260C
Vinyl chloride	<60	ug/L	28	60	120	120	200.00	U		11/14/19 20:43	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	81			118	1.00			11/14/19 20:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356215 Sample Description: DPT-005 Client Sample #: Sampled: 11/07/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromofluorobenzene	101	% Recovery	85			114	1.00			11/14/19 20:43	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/14/19 20:43	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	80			119	1.00			11/14/19 20:43	RLD	EPA 8260C
1,4-Dioxane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U	11/14/2019 08:00	11/22/19 13:52	RPN	EPA 8270D-SIM
1,4-Dioxane-d8	70	% Recovery	50			150	1.00		11/14/2019 08:00	11/22/19 13:52	RPN	EPA 8270D-SIM

CT LAB#: 356216 Sample Description: DPT-008 Client Sample #: Sampled: 11/07/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,1,1-Trichloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,1,2-Trichloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,1-Dichloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,1-Dichloroethene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,1-Dichloropropene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<300	ug/L	120	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,2,3-Trichloropropane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<300	ug/L	140	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<300	ug/L	130	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,2-Dibromoethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,2-Dichlorobenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,2-Dichloroethane	<300	ug/L	120	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,2-Dichloropropane	<300	ug/L	90	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356216 Sample Description: DPT-008 Client Sample #: Sampled: 11/07/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<300	ug/L	140	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,3-Dichlorobenzene	<300	ug/L	130	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,3-Dichloropropane	<150	ug/L	85	150	300	300	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,4-Dichlorobenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1000	ug/L	350	1000	2000	2000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
2,2-Dichloropropane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
2-Butanone	<3000	ug/L	1300	3000	5000	5000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
2-Chlorotoluene	<300	ug/L	130	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
2-Hexanone	<3000	ug/L	1500	3000	5000	5000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
4-Chlorotoluene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
4-Methyl-2-pentanone	<3000	ug/L	1100	3000	5000	5000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Acetone	<5000	ug/L	2000	5000	10000	10000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Benzene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Bromobenzene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Bromochloromethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Bromodichloromethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Bromoform	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Bromomethane	<1000	ug/L	450	1000	2000	2000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Carbon disulfide	<1000	ug/L	300	1000	2000	2000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Carbon tetrachloride	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Chlorobenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Chloroethane	<500	ug/L	250	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Chloroform	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Chloromethane	<500	ug/L	300	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
cis-1,2-Dichloroethene	***820***	ug/L	150	300	500	500	500.00			11/14/19 21:12	RLD	EPA 8260C
cis-1,3-Dichloropropene	<150	ug/L	80	150	300	300	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Dibromochloromethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Dibromomethane	<300	ug/L	110	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356216 Sample Description: DPT-008 Client Sample #: Sampled: 11/07/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dichlorodifluoromethane	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Ethylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Hexachlorobutadiene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Isopropylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
m & p-Xylene	<600	ug/L	350	600	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Methylene chloride	***210***	ug/L	200	500	1000	1000	500.00	J		11/14/19 21:12	RLD	EPA 8260C
n-Butylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
n-Propylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Naphthalene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
o-Xylene	<300	ug/L	130	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
p-Isopropyltoluene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
sec-Butylbenzene	<500	ug/L	200	500	1000	1000	500.00	U Z		11/14/19 21:12	RLD	EPA 8260C
Styrene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
tert-Butylbenzene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Tetrachloroethene	<300	ug/L	140	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Toluene	<300	ug/L	110	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
trans-1,2-Dichloroethene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
trans-1,3-Dichloropropene	<300	ug/L	120	300	500	500	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Trichloroethene	***36000***	ug/L	150	300	500	500	500.00			11/14/19 21:12	RLD	EPA 8260C
Trichlorofluoromethane	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Vinyl Acetate	<5000	ug/L	2500	5000	10000	10000	500.00	U		11/14/19 21:12	RLD	EPA 8260C
Vinyl chloride	<150	ug/L	70	150	300	300	500.00	U		11/14/19 21:12	RLD	EPA 8260C
1,2 Dichloroethane-d4	104	% Recovery	81			118	1.00			11/14/19 21:12	RLD	EPA 8260C
Bromofluorobenzene	99	% Recovery	85			114	1.00			11/14/19 21:12	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/14/19 21:12	RLD	EPA 8260C
Dibromofluoromethane	97	% Recovery	80			119	1.00			11/14/19 21:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356217 Sample Description: DPT-010 Client Sample #: Sampled: 11/07/2019 0840

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,1-Dichloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,1-Dichloroethene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,1-Dichloropropene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<300	ug/L	120	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<300	ug/L	140	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<300	ug/L	130	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,2-Dibromoethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,2-Dichloroethane	<300	ug/L	120	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,2-Dichloropropane	<300	ug/L	90	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<300	ug/L	140	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<300	ug/L	130	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,3-Dichloropropane	<150	ug/L	85	150	300	300	500.00	U		11/14/19 21:43	RLD	EPA 8260C
1,4-Dichlorobenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1000	ug/L	350	1000	2000	2000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
2,2-Dichloropropane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
2-Butanone	<3000	ug/L	1300	3000	5000	5000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
2-Chlorotoluene	<300	ug/L	130	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
2-Hexanone	<3000	ug/L	1500	3000	5000	5000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
4-Chlorotoluene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
4-Methyl-2-pentanone	<3000	ug/L	1100	3000	5000	5000	500.00	U		11/14/19 21:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356217 Sample Description: DPT-010 Client Sample #: Sampled: 11/07/2019 0840

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acetone	<5000	ug/L	2000	5000	10000	10000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Benzene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Bromobenzene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Bromochloromethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Bromodichloromethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Bromoform	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Bromomethane	<1000	ug/L	450	1000	2000	2000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Carbon disulfide	<1000	ug/L	300	1000	2000	2000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Carbon tetrachloride	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Chlorobenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Chloroethane	<500	ug/L	250	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Chloroform	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Chloromethane	<500	ug/L	300	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	***1300***	ug/L	150	300	500	500	500.00			11/14/19 21:43	RLD	EPA 8260C
cis-1,3-Dichloropropene	<150	ug/L	80	150	300	300	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Dibromochloromethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Dibromomethane	<300	ug/L	110	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Dichlorodifluoromethane	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Ethylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Hexachlorobutadiene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Isopropylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
m & p-Xylene	<600	ug/L	350	600	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Methylene chloride	***200***	ug/L	200	500	1000	1000	500.00	J		11/14/19 21:43	RLD	EPA 8260C
n-Butylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
n-Propylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Naphthalene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
o-Xylene	<300	ug/L	130	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
p-Isopropyltoluene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356217 Sample Description: DPT-010 Client Sample #: Sampled: 11/07/2019 0840

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
sec-Butylbenzene	<500	ug/L	200	500	1000	1000	500.00	U Z		11/14/19 21:43	RLD	EPA 8260C
Styrene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
tert-Butylbenzene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Tetrachloroethene	<300	ug/L	140	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Toluene	<300	ug/L	110	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
trans-1,2-Dichloroethene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
trans-1,3-Dichloropropene	<300	ug/L	120	300	500	500	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Trichloroethene	***18000***	ug/L	150	300	500	500	500.00			11/14/19 21:43	RLD	EPA 8260C
Trichlorofluoromethane	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Vinyl Acetate	<5000	ug/L	2500	5000	10000	10000	500.00	U		11/14/19 21:43	RLD	EPA 8260C
Vinyl chloride	***97***	ug/L	70	150	300	300	500.00	J		11/14/19 21:43	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	81			118	1.00			11/14/19 21:43	RLD	EPA 8260C
Bromofluorobenzene	100	% Recovery	85			114	1.00			11/14/19 21:43	RLD	EPA 8260C
d8-Toluene	98	% Recovery	89			112	1.00			11/14/19 21:43	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	80			119	1.00			11/14/19 21:43	RLD	EPA 8260C
1,4-Dioxane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U	11/14/2019 08:00	11/22/19 14:12	RPN	EPA 8270D-SIM
1,4-Dioxane-d8	64	% Recovery	50			150	1.00		11/14/2019 08:00	11/22/19 14:12	RPN	EPA 8270D-SIM

CT LAB#: 356218 Sample Description: 46ADPT-TCLP Client Sample #: Sampled: 11/07/2019 1030

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results												
TCLP Arsenic	<0.012	mg/L	0.0040	0.012	0.024	0.024	1.00	U	11/16/2019 09:10	11/21/19 07:44	NAH	EPA 6010C
TCLP Barium	***0.44***	mg/L	0.00029	0.00090	0.0018	0.0018	1.00		11/16/2019 09:10	11/21/19 07:44	NAH	EPA 6010C
TCLP Cadmium	***0.00039***	mg/L	0.00030	0.0010	0.0020	0.0020	1.00	J	11/16/2019 09:10	11/21/19 07:44	NAH	EPA 6010C
TCLP Chromium	***0.0013***	mg/L	0.00060	0.0020	0.0040	0.0040	1.00	J	11/16/2019 09:10	11/21/19 07:44	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356218 Sample Description: 46ADPT-TCLP Client Sample #: Sampled: 11/07/2019 1030

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method	
TCLP Lead	***0.017***	mg/L	0.0014	0.0020	0.0040	0.0040	1.00		11/16/2019 09:10	11/21/19 07:44	NAH	EPA 6010C	
TCLP Selenium	***0.011***	mg/L	0.0022	0.0065	0.013	0.013	1.00	J M	11/16/2019 09:10	11/21/19 07:44	NAH	EPA 6010C	
TCLP Silver	<0.0020	mg/L	0.00070	0.0020	0.0040	0.0040	1.00	U	11/16/2019 09:10	11/21/19 07:44	NAH	EPA 6010C	
TCLP Mercury	<0.000060	mg/L	0.000030	0.000060	0.00012	0.00012	1.00	U M	11/16/2019 09:10	11/22/19 16:43	MDS	EPA 7470A	
Organic Results													
TCLP alpha-Chlordane	<0.00010	mg/L	0.000090	0.00010	0.00040	0.00040	1.00	U	11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	^
TCLP Chlordane (Technical)	<0.0030	mg/L	0.0010	0.0030	0.0060	0.0060	1.00	U	11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	^
TCLP Endrin	<0.00010	mg/L	0.000060	0.00010	0.00024	0.00024	1.00	U Q	11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	^
TCLP gamma-Chlordane	<0.00010	mg/L	0.000070	0.00010	0.00024	0.00024	1.00	U	11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	^
TCLP Heptachlor	<0.00010	mg/L	0.000060	0.00010	0.00024	0.00024	1.00	U	11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	^
TCLP Heptachlor epoxide	<0.00010	mg/L	0.000070	0.00010	0.00024	0.00024	1.00	U	11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	^
TCLP Lindane	<0.00010	mg/L	0.000070	0.00010	0.00024	0.00024	1.00	U	11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	^
TCLP Methoxychlor	<0.00010	mg/L	0.000060	0.00010	0.00040	0.00040	1.00	U	11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	^
TCLP Toxaphene	<0.0030	mg/L	0.0018	0.0030	0.0060	0.0056	1.00	U	11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	^
TCLP SURR:2,4,5,6-CL4-m-xylene	96	% Recovery	25			140	1.00		11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	
TCLP SURR:Decachlorobiphenyl	90	% Recovery	30			135	1.00		11/16/2019 09:10	11/21/19 22:45	JJY	EPA 8081B	
TCLP 1,1-Dichloroethene	<0.10	mg/L	0.040	0.10	0.20	0.20	100.00	U	11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C	
TCLP 1,2-Dichloroethane	<0.060	mg/L	0.024	0.060	0.10	0.10	100.00	U	11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C	
TCLP 2-Butanone	<0.60	mg/L	0.26	0.60	1.0	1.0	100.00	U	11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C	
TCLP Benzene	<0.10	mg/L	0.040	0.10	0.20	0.20	100.00	U	11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C	
TCLP Carbon tetrachloride	<0.060	mg/L	0.030	0.060	0.10	0.10	100.00	U	11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C	
TCLP Chlorobenzene	<0.060	mg/L	0.030	0.060	0.10	0.10	100.00	U	11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C	
TCLP Chloroform	<0.060	mg/L	0.030	0.060	0.10	0.10	100.00	U	11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C	
TCLP Tetrachloroethene	<0.060	mg/L	0.027	0.060	0.10	0.10	100.00	U	11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C	
TCLP Trichloroethene	<0.060	mg/L	0.030	0.060	0.10	0.10	100.00	U	11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C	
TCLP Vinyl chloride	<0.030	mg/L	0.014	0.030	0.060	0.060	100.00	U	11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C	

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356218 Sample Description: 46ADPT-TCLP Client Sample #: Sampled: 11/07/2019 1030

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP 1,2 Dichloroethane-d4	106	% Recovery	81			118	1.00		11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C
TCLP Bromofluorobenzene	97	% Recovery	85			114	1.00		11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C
TCLP d8-Toluene	99	% Recovery	89			112	1.00		11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C
TCLP Dibromofluoromethane	102	% Recovery	80			119	1.00		11/22/2019 09:40	12/1/19 15:04	RLD	EPA 8260C
TCLP 1,4-Dichlorobenzene	<0.0040	mg/L	0.0019	0.0040	0.010	0.010	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP 2,4,5-Trichlorophenol	<0.020	mg/L	0.011	0.020	0.050	0.050	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.010	0.020	0.050	0.050	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP 2,4-Dinitrotoluene	<0.0040	mg/L	0.0021	0.0040	0.010	0.010	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP 2-Methylphenol	<0.020	mg/L	0.0086	0.020	0.050	0.050	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP 3 & 4-Methylphenol	<0.036	mg/L	0.014	0.036	0.090	0.090	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Hexachlorobenzene	<0.0040	mg/L	0.0027	0.0040	0.010	0.010	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Hexachlorobutadiene	<0.0040	mg/L	0.0018	0.0040	0.010	0.010	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Hexachloroethane	<0.0040	mg/L	0.0022	0.0040	0.010	0.010	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Nitrobenzene	<0.0040	mg/L	0.0016	0.0040	0.010	0.010	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Pentachlorophenol	<0.020	mg/L	0.011	0.020	0.050	0.050	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Pyridine	<0.010	mg/L	0.0062	0.010	0.030	0.040	1.00	U	11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Surr: 2,4,6-Tribromophenol	95	% Recovery	43			140	1.00		11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Surr: 2-Fluorobiphenyl	75	% Recovery	44			119	1.00		11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Surr: 2-Fluorophenol	64	% Recovery	19			119	1.00		11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Surr: Nitrobenzene-d5	108	% Recovery	44			120	1.00		11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Surr: Phenol-d5	53	% Recovery	1			114	1.00		11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP Surr: Terphenyl-d14	95	% Recovery	50			134	1.00		11/16/2019 09:10	11/21/19 13:19	RPN	EPA 8270D
TCLP 2,4,5-TP (Silvex)	<0.00060	mg/L	0.00021	0.00060	0.0012	0.0012	1.00	U	11/16/2019 09:10	11/22/19 17:35	JJY	EPA 8151A
TCLP 2,4-D	<0.0030	mg/L	0.0015	0.0030	0.0060	0.0060	1.00	U	11/16/2019 09:10	11/22/19 17:35	JJY	EPA 8151A
TCLP Surr: 2,4-DCAA	90	% Recovery	32			138	1.00		11/16/2019 09:10	11/22/19 17:35	JJY	EPA 8151A

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356219 Sample Description: 46ADPT-TCLP Client Sample #: Sampled: 11/07/2019 1030

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method	
Inorganic Results													
Solids, Percent	***86.0***	%	0.1	0.1	0.1	0.1	1.00			11/21/19 18:48	BMM	EPA 8000C	
pH	***7.37***	S.U.					1.00			11/11/19 13:30	SRW	EPA 9045D	^
Flashpoint	***>140***	Deg. F					1.00			11/11/19 12:45	CLB	EPA 1010A	^
Cyanide, Reactive	<	mg/kg	20			20	1.00	U		11/14/19 09:00	CLB	SW 846 Ch. 7	^
Sulfide Reactive	<	mg/kg	100			100	1.00	U		11/13/19 9:00	CLB	ASTM D4978	^

CT LAB#: 356220 Sample Description: EB-002 Client Sample #: Sampled: 11/06/2019 1600

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.60	ug/L	0.28	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,2-Dichloroethane	<0.60	ug/L	0.24	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356220 Sample Description: EB-002 Client Sample #: Sampled: 11/06/2019 1600

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloropropane	<0.60	ug/L	0.18	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,3-Dichloropropane	<0.30	ug/L	0.17	0.30	0.60	0.60	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/L	0.70	2.0	4.0	4.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
2,2-Dichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
2-Butanone	<6.0	ug/L	2.6	6.0	10	10	1.00	U		11/14/19 15:44	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
2-Hexanone	<6.0	ug/L	3.0	6.0	10	10	1.00	U		11/14/19 15:44	RLD	EPA 8260C
4-Chlorotoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	2.2	6.0	10	10	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Acetone	***8.3***	ug/L	4.0	10	20	20	1.00	J		11/14/19 15:44	RLD	EPA 8260C
Benzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Bromobenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Bromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Bromodichloromethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Bromoform	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Bromomethane	<2.0	ug/L	0.90	2.0	4.0	4.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/L	0.60	2.0	4.0	4.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Chlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Chloroethane	<1.0	ug/L	0.50	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Chloromethane	<1.0	ug/L	0.60	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.30	ug/L	0.16	0.30	0.60	0.60	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Dibromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356220 Sample Description: EB-002 Client Sample #: Sampled: 11/06/2019 1600

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromomethane	<0.60	ug/L	0.22	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Dichlorodifluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Hexachlorobutadiene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Isopropylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	0.70	1.2	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Methylene chloride	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
n-Butylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
n-Propylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Naphthalene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
o-Xylene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
p-Isopropyltoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
sec-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U Z		11/14/19 15:44	RLD	EPA 8260C
Styrene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
tert-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Tetrachloroethene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Toluene	<0.60	ug/L	0.21	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Trichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Trichlorofluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Vinyl Acetate	<10	ug/L	5.0	10	20	20	1.00	U		11/14/19 15:44	RLD	EPA 8260C
Vinyl chloride	<0.30	ug/L	0.14	0.30	0.60	0.60	1.00	U		11/14/19 15:44	RLD	EPA 8260C
1,2 Dichloroethane-d4	99	% Recovery	81			118	1.00			11/14/19 15:44	RLD	EPA 8260C
Bromofluorobenzene	103	% Recovery	85			114	1.00			11/14/19 15:44	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/14/19 15:44	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	80			119	1.00			11/14/19 15:44	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356221 Sample Description: DPT-011 Client Sample #: Sampled: 11/07/2019 0915

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,1,1-Trichloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,1,2-Trichloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,1-Dichloroethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,1-Dichloroethene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,1-Dichloropropene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<300	ug/L	120	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,2,3-Trichloropropane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<300	ug/L	140	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<300	ug/L	130	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,2-Dibromoethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,2-Dichlorobenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,2-Dichloroethane	<300	ug/L	120	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,2-Dichloropropane	<300	ug/L	90	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<300	ug/L	140	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,3-Dichlorobenzene	<300	ug/L	130	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,3-Dichloropropane	<150	ug/L	85	150	300	300	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,4-Dichlorobenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
112Trichloro122trifluoroethane	<1000	ug/L	350	1000	2000	2000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
2,2-Dichloropropane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
2-Butanone	<3000	ug/L	1300	3000	5000	5000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
2-Chlorotoluene	<300	ug/L	130	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
2-Hexanone	<3000	ug/L	1500	3000	5000	5000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
4-Chlorotoluene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
4-Methyl-2-pentanone	<3000	ug/L	1100	3000	5000	5000	500.00	U		11/14/19 22:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356221 Sample Description: DPT-011 Client Sample #: Sampled: 11/07/2019 0915

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acetone	<5000	ug/L	2000	5000	10000	10000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Benzene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Bromobenzene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Bromochloromethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Bromodichloromethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Bromoform	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Bromomethane	<1000	ug/L	450	1000	2000	2000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Carbon disulfide	<1000	ug/L	300	1000	2000	2000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Carbon tetrachloride	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Chlorobenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Chloroethane	<500	ug/L	250	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Chloroform	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Chloromethane	<500	ug/L	300	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
cis-1,2-Dichloroethene	***1500***	ug/L	150	300	500	500	500.00			11/14/19 22:13	RLD	EPA 8260C
cis-1,3-Dichloropropene	<150	ug/L	80	150	300	300	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Dibromochloromethane	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Dibromomethane	<300	ug/L	110	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Dichlorodifluoromethane	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Ethylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Hexachlorobutadiene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Isopropylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
m & p-Xylene	<600	ug/L	350	600	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Methylene chloride	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
n-Butylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
n-Propylbenzene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Naphthalene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
o-Xylene	<300	ug/L	130	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
p-Isopropyltoluene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356221 Sample Description: DPT-011 Client Sample #: Sampled: 11/07/2019 0915

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
sec-Butylbenzene	<500	ug/L	200	500	1000	1000	500.00	U Z		11/14/19 22:13	RLD	EPA 8260C
Styrene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
tert-Butylbenzene	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Tetrachloroethene	<300	ug/L	140	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Toluene	<300	ug/L	110	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
trans-1,2-Dichloroethene	<300	ug/L	150	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
trans-1,3-Dichloropropene	<300	ug/L	120	300	500	500	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Trichloroethene	***22000***	ug/L	150	300	500	500	500.00			11/14/19 22:13	RLD	EPA 8260C
Trichlorofluoromethane	<500	ug/L	200	500	1000	1000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Vinyl Acetate	<5000	ug/L	2500	5000	10000	10000	500.00	U		11/14/19 22:13	RLD	EPA 8260C
Vinyl chloride	<150	ug/L	70	150	300	300	500.00	U		11/14/19 22:13	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	81			118	1.00			11/14/19 22:13	RLD	EPA 8260C
Bromofluorobenzene	103	% Recovery	85			114	1.00			11/14/19 22:13	RLD	EPA 8260C
d8-Toluene	98	% Recovery	89			112	1.00			11/14/19 22:13	RLD	EPA 8260C
Dibromofluoromethane	96	% Recovery	80			119	1.00			11/14/19 22:13	RLD	EPA 8260C

CT LAB#: 356222 Sample Description: 47WW09 Client Sample #: Sampled: 11/07/2019 1525

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,4-Dioxane	***37***	ug/L	0.40	1.0	2.0	2.0	1.00		11/14/2019 08:00	11/22/19 14:32	RPN	EPA 8270D-SIM
1,4-Dioxane-d8	64	% Recovery	50			150	1.00		11/14/2019 08:00	11/22/19 14:32	RPN	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356223 Sample Description: EB-003 Client Sample #: Sampled: 11/08/2019 0700

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.60	ug/L	0.28	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,2-Dichloroethane	<0.60	ug/L	0.24	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,2-Dichloropropane	<0.60	ug/L	0.18	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,3-Dichloropropane	<0.30	ug/L	0.17	0.30	0.60	0.60	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/L	0.70	2.0	4.0	4.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
2,2-Dichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
2-Butanone	<6.0	ug/L	2.6	6.0	10	10	1.00	U		11/14/19 16:14	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
2-Hexanone	<6.0	ug/L	3.0	6.0	10	10	1.00	U		11/14/19 16:14	RLD	EPA 8260C
4-Chlorotoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	2.2	6.0	10	10	1.00	U		11/14/19 16:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356223 Sample Description: EB-003 Client Sample #: Sampled: 11/08/2019 0700

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acetone	***5.8***	ug/L	4.0	10	20	20	1.00	J		11/14/19 16:14	RLD	EPA 8260C
Benzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Bromobenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Bromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Bromodichloromethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Bromoform	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Bromomethane	<2.0	ug/L	0.90	2.0	4.0	4.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/L	0.60	2.0	4.0	4.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Chlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Chloroethane	<1.0	ug/L	0.50	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Chloromethane	<1.0	ug/L	0.60	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.30	ug/L	0.16	0.30	0.60	0.60	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Dibromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.22	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Dichlorodifluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Hexachlorobutadiene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Isopropylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	0.70	1.2	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Methylene chloride	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
n-Butylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
n-Propylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Naphthalene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
o-Xylene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
p-Isopropyltoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356223 Sample Description: EB-003 Client Sample #: Sampled: 11/08/2019 0700

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
sec-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U Z		11/14/19 16:14	RLD	EPA 8260C
Styrene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
tert-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Tetrachloroethene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Toluene	<0.60	ug/L	0.21	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Trichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Trichlorofluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Vinyl Acetate	<10	ug/L	5.0	10	20	20	1.00	U		11/14/19 16:14	RLD	EPA 8260C
Vinyl chloride	<0.30	ug/L	0.14	0.30	0.60	0.60	1.00	U		11/14/19 16:14	RLD	EPA 8260C
1,2 Dichloroethane-d4	96	% Recovery	81			118	1.00			11/14/19 16:14	RLD	EPA 8260C
Bromofluorobenzene	103	% Recovery	85			114	1.00			11/14/19 16:14	RLD	EPA 8260C
d8-Toluene	98	% Recovery	89			112	1.00			11/14/19 16:14	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	80			119	1.00			11/14/19 16:14	RLD	EPA 8260C
1,4-Dioxane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U	11/14/2019 08:00	11/22/19 14:52	RPN	EPA 8270D-SIM
1,4-Dioxane-d8	78	% Recovery	50			150	1.00		11/14/2019 08:00	11/22/19 14:52	RPN	EPA 8270D-SIM

CT LAB#: 356224 Sample Description: 47WW37 Client Sample #: Sampled: 11/08/2019 0915

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<6.0	ug/L	2.9	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356224 Sample Description: 47WW37 Client Sample #: Sampled: 11/08/2019 0915

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,1-Dichloroethene	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,1-Dichloropropene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<6.0	ug/L	2.3	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<6.0	ug/L	2.8	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<6.0	ug/L	2.9	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<6.0	ug/L	2.5	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,2-Dibromoethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,2-Dichloroethane	<6.0	ug/L	2.4	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,2-Dichloropropane	<6.0	ug/L	1.8	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<6.0	ug/L	2.7	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<6.0	ug/L	2.6	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,3-Dichloropropane	<3.0	ug/L	1.7	3.0	6.0	6.0	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,4-Dichlorobenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
112Trichloro122trifluoroethane	<20	ug/L	7.0	20	40	40	10.00	U		11/14/19 22:43	RLD	EPA 8260C
2,2-Dichloropropane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
2-Butanone	<60	ug/L	26	60	100	100	10.00	U		11/14/19 22:43	RLD	EPA 8260C
2-Chlorotoluene	<6.0	ug/L	2.5	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
2-Hexanone	<60	ug/L	30	60	100	100	10.00	U		11/14/19 22:43	RLD	EPA 8260C
4-Chlorotoluene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
4-Methyl-2-pentanone	<60	ug/L	22	60	100	100	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Acetone	<100	ug/L	40	100	200	200	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Benzene	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Bromobenzene	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Bromochloromethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Bromodichloromethane	<6.0	ug/L	2.9	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356224 Sample Description: 47WW37 Client Sample #: Sampled: 11/08/2019 0915

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromoform	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Bromomethane	<20	ug/L	9.0	20	40	40	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Carbon disulfide	<20	ug/L	6.0	20	40	40	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Carbon tetrachloride	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Chlorobenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Chloroethane	<10	ug/L	5.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Chloroform	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Chloromethane	<10	ug/L	6.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	***13***	ug/L	3.0	6.0	10	10	10.00			11/14/19 22:43	RLD	EPA 8260C
cis-1,3-Dichloropropene	<3.0	ug/L	1.6	3.0	6.0	6.0	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Dibromochloromethane	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Dibromomethane	<6.0	ug/L	2.2	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Dichlorodifluoromethane	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Ethylbenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Hexachlorobutadiene	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Isopropylbenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
m & p-Xylene	<12	ug/L	7.0	12	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Methylene chloride	***6.1***	ug/L	4.0	10	20	20	10.00	J		11/14/19 22:43	RLD	EPA 8260C
n-Butylbenzene	<6.0	ug/L	2.9	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
n-Propylbenzene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Naphthalene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
o-Xylene	<6.0	ug/L	2.6	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
p-Isopropyltoluene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
sec-Butylbenzene	<10	ug/L	4.0	10	20	20	10.00	U Z		11/14/19 22:43	RLD	EPA 8260C
Styrene	<6.0	ug/L	2.9	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
tert-Butylbenzene	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Tetrachloroethene	<6.0	ug/L	2.7	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Toluene	<6.0	ug/L	2.1	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356224 Sample Description: 47WW37 Client Sample #: Sampled: 11/08/2019 0915

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,2-Dichloroethene	<6.0	ug/L	3.0	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
trans-1,3-Dichloropropene	<6.0	ug/L	2.3	6.0	10	10	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Trichloroethene	***190***	ug/L	3.0	6.0	10	10	10.00			11/14/19 22:43	RLD	EPA 8260C
Trichlorofluoromethane	<10	ug/L	4.0	10	20	20	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Vinyl Acetate	<100	ug/L	50	100	200	200	10.00	U		11/14/19 22:43	RLD	EPA 8260C
Vinyl chloride	<3.0	ug/L	1.4	3.0	6.0	6.0	10.00	U		11/14/19 22:43	RLD	EPA 8260C
1,2 Dichloroethane-d4	100	% Recovery	81			118	1.00			11/14/19 22:43	RLD	EPA 8260C
Bromofluorobenzene	103	% Recovery	85			114	1.00			11/14/19 22:43	RLD	EPA 8260C
d8-Toluene	100	% Recovery	89			112	1.00			11/14/19 22:43	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	80			119	1.00			11/14/19 22:43	RLD	EPA 8260C

CT LAB#: 356225 Sample Description: DUP-005 Client Sample #: Sampled: 11/08/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<5000	ug/L	2000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,1,1-Trichloroethane	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,1,2-Trichloroethane	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,1-Dichloroethane	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,1-Dichloroethene	<5000	ug/L	2000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,1-Dichloropropene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<3000	ug/L	1200	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,2,3-Trichloropropane	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<3000	ug/L	1400	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356225 Sample Description: DUP-005 Client Sample #: Sampled: 11/08/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromo-3-chloropropane	<3000	ug/L	1300	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,2-Dibromoethane	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,2-Dichlorobenzene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,2-Dichloroethane	<3000	ug/L	1200	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,2-Dichloropropane	<3000	ug/L	900	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<3000	ug/L	1400	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,3-Dichlorobenzene	<3000	ug/L	1300	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,3-Dichloropropane	<1500	ug/L	850	1500	3000	3000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,4-Dichlorobenzene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
112Trichloro122trifluoroethane	<10000	ug/L	3500	10000	20000	20000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
2,2-Dichloropropane	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
2-Butanone	<30000	ug/L	13000	30000	50000	50000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
2-Chlorotoluene	<3000	ug/L	1300	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
2-Hexanone	<30000	ug/L	15000	30000	50000	50000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
4-Chlorotoluene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
4-Methyl-2-pentanone	<30000	ug/L	11000	30000	50000	50000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Acetone	<50000	ug/L	20000	50000	100000	100000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Benzene	<5000	ug/L	2000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Bromobenzene	<5000	ug/L	2000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Bromochloromethane	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Bromodichloromethane	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Bromoform	<5000	ug/L	2000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Bromomethane	<10000	ug/L	4500	10000	20000	20000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Carbon disulfide	<10000	ug/L	3000	10000	20000	20000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Carbon tetrachloride	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Chlorobenzene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Chloroethane	<5000	ug/L	2500	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Chloroform	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356225 Sample Description: DUP-005 Client Sample #: Sampled: 11/08/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloromethane	<5000	ug/L	3000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
cis-1,2-Dichloroethene	***2500***	ug/L	1500	3000	5000	5000	5,000.00	J		11/15/19 12:12	RLD	EPA 8260C
cis-1,3-Dichloropropene	<1500	ug/L	800	1500	3000	3000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Dibromochloromethane	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Dibromomethane	<3000	ug/L	1100	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Dichlorodifluoromethane	<5000	ug/L	2000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Ethylbenzene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Hexachlorobutadiene	<5000	ug/L	2000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Isopropylbenzene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
m & p-Xylene	<6000	ug/L	3500	6000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Methylene chloride	<5000	ug/L	2000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
n-Butylbenzene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U Z		11/15/19 12:12	RLD	EPA 8260C
n-Propylbenzene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Naphthalene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
o-Xylene	<3000	ug/L	1300	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
p-Isopropyltoluene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
sec-Butylbenzene	<5000	ug/L	2000	5000	10000	10000	5,000.00	U Z		11/15/19 12:12	RLD	EPA 8260C
Styrene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
tert-Butylbenzene	<5000	ug/L	2000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Tetrachloroethene	<3000	ug/L	1400	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Toluene	<3000	ug/L	1100	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
trans-1,2-Dichloroethene	<3000	ug/L	1500	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
trans-1,3-Dichloropropene	<3000	ug/L	1200	3000	5000	5000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Trichloroethene	***140000***	ug/L	1500	3000	5000	5000	5,000.00			11/15/19 12:12	RLD	EPA 8260C
Trichlorofluoromethane	<5000	ug/L	2000	5000	10000	10000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Vinyl Acetate	<50000	ug/L	25000	50000	100000	100000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
Vinyl chloride	<1500	ug/L	700	1500	3000	3000	5,000.00	U		11/15/19 12:12	RLD	EPA 8260C
1,2 Dichloroethane-d4	102	% Recovery	81			118	1.00			11/15/19 12:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356225 Sample Description: DUP-005 Client Sample #: Sampled: 11/08/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromofluorobenzene	99	% Recovery	85			114	1.00			11/15/19 12:12	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/15/19 12:12	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	80			119	1.00			11/15/19 12:12	RLD	EPA 8260C

CT LAB#: 356226 Sample Description: DUP-006 Client Sample #: Sampled: 11/08/2019 0830

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,4-Dioxane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U	11/14/2019 08:00	11/22/19 15:12	RPN	EPA 8270D-SIM
1,4-Dioxane-d8	49	% Recovery	50			150	1.00	S	11/14/2019 08:00	11/22/19 15:12	RPN	EPA 8270D-SIM

CT LAB#: 356227 Sample Description: 47WW25R-35 Client Sample #: Sampled: 11/08/2019 1040

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
1,1,1-Trichloroethane	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
1,1,2-Trichloroethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
1,1-Dichloroethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
1,1-Dichloroethene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
1,1-Dichloropropene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1200	ug/L	460	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
1,2,3-Trichloropropane	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356227 Sample Description: 47WW25R-35 Client Sample #: Sampled: 11/08/2019 1040

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trichlorobenzene	<1200	ug/L	560	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1200	ug/L	580	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1200	ug/L	500	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
1,2-Dibromoethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
1,2-Dichlorobenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U M,Y		11/15/19 12:42	RLD	EPA 8260C
1,2-Dichloroethane	<1200	ug/L	480	1200	2000	2000	2,000.00	U Y		11/15/19 12:42	RLD	EPA 8260C
1,2-Dichloropropane	<1200	ug/L	360	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1200	ug/L	540	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
1,3-Dichlorobenzene	<1200	ug/L	520	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
1,3-Dichloropropane	<600	ug/L	340	600	1200	1200	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
1,4-Dichlorobenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
112Trichloro122trifluoroethane	<4000	ug/L	1400	4000	8000	8000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
2,2-Dichloropropane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
2-Butanone	<12000	ug/L	5200	12000	20000	20000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
2-Chlorotoluene	<1200	ug/L	500	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
2-Hexanone	<12000	ug/L	6000	12000	20000	20000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
4-Chlorotoluene	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
4-Methyl-2-pentanone	<12000	ug/L	4400	12000	20000	20000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
Acetone	<20000	ug/L	8000	20000	40000	40000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Benzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
Bromobenzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Bromochloromethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Bromodichloromethane	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Bromoform	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Bromomethane	<4000	ug/L	1800	4000	8000	8000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Carbon disulfide	<4000	ug/L	1200	4000	8000	8000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Carbon tetrachloride	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Chlorobenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356227 Sample Description: 47WW25R-35 Client Sample #: Sampled: 11/08/2019 1040

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroethane	<2000	ug/L	1000	2000	4000	4000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Chloroform	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Chloromethane	<2000	ug/L	1200	2000	4000	4000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
cis-1,2-Dichloroethene	***2100***	ug/L	600	1200	2000	2000	2,000.00	Y,M		11/15/19 12:42	RLD	EPA 8260C
cis-1,3-Dichloropropene	<600	ug/L	320	600	1200	1200	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Dibromochloromethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Dibromomethane	<1200	ug/L	440	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Dichlorodifluoromethane	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Ethylbenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
Hexachlorobutadiene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Isopropylbenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
m & p-Xylene	<2400	ug/L	1400	2400	4000	4000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
Methylene chloride	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
n-Butylbenzene	<1200	ug/L	580	1200	2000	2000	2,000.00	U M,Z		11/15/19 12:42	RLD	EPA 8260C
n-Propylbenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
Naphthalene	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
o-Xylene	<1200	ug/L	520	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
p-Isopropyltoluene	<1200	ug/L	600	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
sec-Butylbenzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U M,Z		11/15/19 12:42	RLD	EPA 8260C
Styrene	<1200	ug/L	580	1200	2000	2000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
tert-Butylbenzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U M		11/15/19 12:42	RLD	EPA 8260C
Tetrachloroethene	<1200	ug/L	540	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Toluene	<1200	ug/L	420	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1200	ug/L	460	1200	2000	2000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Trichloroethene	***130000***	ug/L	600	1200	2000	2000	2,000.00			11/15/19 12:42	RLD	EPA 8260C
Trichlorofluoromethane	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
Vinyl Acetate	<20000	ug/L	10000	20000	40000	40000	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356227 Sample Description: 47WW25R-35 Client Sample #: Sampled: 11/08/2019 1040

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	<600	ug/L	280	600	1200	1200	2,000.00	U		11/15/19 12:42	RLD	EPA 8260C
1,2 Dichloroethane-d4	101	% Recovery	81			118	1.00			11/15/19 12:42	RLD	EPA 8260C
Bromofluorobenzene	102	% Recovery	85			114	1.00			11/15/19 12:42	RLD	EPA 8260C
d8-Toluene	100	% Recovery	89			112	1.00			11/15/19 12:42	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	80			119	1.00			11/15/19 12:42	RLD	EPA 8260C
1,4-Dioxane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U	11/14/2019 08:00	11/22/19 15:33	RPN	EPA 8270D-SIM
1,4-Dioxane-d8	55	% Recovery	50			150	1.00		11/14/2019 08:00	11/22/19 15:33	RPN	EPA 8270D-SIM

CT LAB#: 356228 Sample Description: 47WW25R-38 Client Sample #: Sampled: 11/08/2019 1130

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,1,1-Trichloroethane	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,1,2-Trichloroethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,1-Dichloroethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,1-Dichloroethene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,1-Dichloropropene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<1200	ug/L	460	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,2,3-Trichloropropane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<1200	ug/L	560	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<1200	ug/L	500	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,2-Dibromoethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,2-Dichlorobenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356228 Sample Description: 47WW25R-38 Client Sample #: Sampled: 11/08/2019 1130

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<1200	ug/L	480	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,2-Dichloropropane	<1200	ug/L	360	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<1200	ug/L	540	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,3-Dichlorobenzene	<1200	ug/L	520	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,3-Dichloropropane	<600	ug/L	340	600	1200	1200	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,4-Dichlorobenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
112Trichloro122trifluoroethane	<4000	ug/L	1400	4000	8000	8000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
2,2-Dichloropropane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
2-Butanone	<12000	ug/L	5200	12000	20000	20000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
2-Chlorotoluene	<1200	ug/L	500	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
2-Hexanone	<12000	ug/L	6000	12000	20000	20000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
4-Chlorotoluene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
4-Methyl-2-pentanone	<12000	ug/L	4400	12000	20000	20000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Acetone	<20000	ug/L	8000	20000	40000	40000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Benzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Bromobenzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Bromochloromethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Bromodichloromethane	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Bromoform	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Bromomethane	<4000	ug/L	1800	4000	8000	8000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Carbon disulfide	<4000	ug/L	1200	4000	8000	8000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Carbon tetrachloride	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Chlorobenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Chloroethane	<2000	ug/L	1000	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Chloroform	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Chloromethane	<2000	ug/L	1200	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
cis-1,2-Dichloroethene	***2600***	ug/L	600	1200	2000	2000	2,000.00			11/15/19 13:11	RLD	EPA 8260C
cis-1,3-Dichloropropene	<600	ug/L	320	600	1200	1200	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356228 Sample Description: 47WW25R-38 Client Sample #: Sampled: 11/08/2019 1130

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Dibromomethane	<1200	ug/L	440	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Dichlorodifluoromethane	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Ethylbenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Hexachlorobutadiene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Isopropylbenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
m & p-Xylene	<2400	ug/L	1400	2400	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Methylene chloride	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
n-Butylbenzene	<1200	ug/L	580	1200	2000	2000	2,000.00	U Z		11/15/19 13:11	RLD	EPA 8260C
n-Propylbenzene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Naphthalene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
o-Xylene	<1200	ug/L	520	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
p-Isopropyltoluene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
sec-Butylbenzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U Z		11/15/19 13:11	RLD	EPA 8260C
Styrene	<1200	ug/L	580	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
tert-Butylbenzene	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Tetrachloroethene	<1200	ug/L	540	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Toluene	<1200	ug/L	420	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
trans-1,2-Dichloroethene	<1200	ug/L	600	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
trans-1,3-Dichloropropene	<1200	ug/L	460	1200	2000	2000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Trichloroethene	***140000***	ug/L	600	1200	2000	2000	2,000.00			11/15/19 13:11	RLD	EPA 8260C
Trichlorofluoromethane	<2000	ug/L	800	2000	4000	4000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Vinyl Acetate	<20000	ug/L	10000	20000	40000	40000	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
Vinyl chloride	<600	ug/L	280	600	1200	1200	2,000.00	U		11/15/19 13:11	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	81			118	1.00			11/15/19 13:11	RLD	EPA 8260C
Bromofluorobenzene	101	% Recovery	85			114	1.00			11/15/19 13:11	RLD	EPA 8260C
d8-Toluene	102	% Recovery	89			112	1.00			11/15/19 13:11	RLD	EPA 8260C
Dibromofluoromethane	100	% Recovery	80			119	1.00			11/15/19 13:11	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356228 Sample Description: 47WW25R-38 Client Sample #: Sampled: 11/08/2019 1130

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U	11/14/2019 08:00	11/22/19 15:53	RPN	EPA 8270D-SIM
1,4-Dioxane-d8	42	% Recovery	50			150	1.00	S	11/14/2019 08:00	11/22/19 15:53	RPN	EPA 8270D-SIM

CT LAB#: 356229 Sample Description: TB-002 Client Sample #: Sampled: 11/04/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.60	ug/L	0.28	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,2-Dichloroethane	<0.60	ug/L	0.24	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,2-Dichloropropane	<0.60	ug/L	0.18	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,3-Dichloropropane	<0.30	ug/L	0.17	0.30	0.60	0.60	1.00	U		11/15/19 11:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356229 Sample Description: TB-002 Client Sample #: Sampled: 11/04/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/L	0.70	2.0	4.0	4.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
2,2-Dichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
2-Butanone	<6.0	ug/L	2.6	6.0	10	10	1.00	U		11/15/19 11:12	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
2-Hexanone	<6.0	ug/L	3.0	6.0	10	10	1.00	U		11/15/19 11:12	RLD	EPA 8260C
4-Chlorotoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	2.2	6.0	10	10	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Acetone	***4.3***	ug/L	4.0	10	20	20	1.00	J		11/15/19 11:12	RLD	EPA 8260C
Benzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Bromobenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Bromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Bromodichloromethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Bromoform	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Bromomethane	<2.0	ug/L	0.90	2.0	4.0	4.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/L	0.60	2.0	4.0	4.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Chlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Chloroethane	<1.0	ug/L	0.50	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Chloromethane	<1.0	ug/L	0.60	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.30	ug/L	0.16	0.30	0.60	0.60	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Dibromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.22	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Dichlorodifluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Hexachlorobutadiene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356229 Sample Description: TB-002 Client Sample #: Sampled: 11/04/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Isopropylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	0.70	1.2	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Methylene chloride	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
n-Butylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U Z		11/15/19 11:12	RLD	EPA 8260C
n-Propylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Naphthalene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
o-Xylene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
p-Isopropyltoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
sec-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U Z		11/15/19 11:12	RLD	EPA 8260C
Styrene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
tert-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Tetrachloroethene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Toluene	<0.60	ug/L	0.21	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Trichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Trichlorofluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Vinyl Acetate	<10	ug/L	5.0	10	20	20	1.00	U		11/15/19 11:12	RLD	EPA 8260C
Vinyl chloride	<0.30	ug/L	0.14	0.30	0.60	0.60	1.00	U		11/15/19 11:12	RLD	EPA 8260C
1,2 Dichloroethane-d4	103	% Recovery	81			118	1.00			11/15/19 11:12	RLD	EPA 8260C
Bromofluorobenzene	104	% Recovery	85			114	1.00			11/15/19 11:12	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/15/19 11:12	RLD	EPA 8260C
Dibromofluoromethane	98	% Recovery	80			119	1.00			11/15/19 11:12	RLD	EPA 8260C

CT LAB#: 356230 Sample Description: TB-003 Client Sample #: Sampled: 11/04/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOQ	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356230 Sample Description: TB-003 Client Sample #: Sampled: 11/04/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results												
1,1,1,2-Tetrachloroethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,1-Dichloroethene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.60	ug/L	0.28	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,2-Dichloroethane	<0.60	ug/L	0.24	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,2-Dichloropropane	<0.60	ug/L	0.18	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,3-Dichloropropane	<0.30	ug/L	0.17	0.30	0.60	0.60	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
112Trichloro122trifluoroethane	<2.0	ug/L	0.70	2.0	4.0	4.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
2,2-Dichloropropane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
2-Butanone	<6.0	ug/L	2.6	6.0	10	10	1.00	U		11/15/19 11:42	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.25	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
2-Hexanone	<6.0	ug/L	3.0	6.0	10	10	1.00	U		11/15/19 11:42	RLD	EPA 8260C
4-Chlorotoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	2.2	6.0	10	10	1.00	U		11/15/19 11:42	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356230 Sample Description: TB-003 Client Sample #: Sampled: 11/04/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acetone	<10	ug/L	4.0	10	20	20	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Benzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Bromobenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Bromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Bromodichloromethane	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Bromoform	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Bromomethane	<2.0	ug/L	0.90	2.0	4.0	4.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Carbon disulfide	<2.0	ug/L	0.60	2.0	4.0	4.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Carbon tetrachloride	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Chlorobenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Chloroethane	<1.0	ug/L	0.50	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Chloromethane	<1.0	ug/L	0.60	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.30	ug/L	0.16	0.30	0.60	0.60	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Dibromochloromethane	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Dibromomethane	<0.60	ug/L	0.22	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Dichlorodifluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Ethylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Hexachlorobutadiene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Isopropylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
m & p-Xylene	<1.2	ug/L	0.70	1.2	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Methylene chloride	***0.64***	ug/L	0.40	1.0	2.0	2.0	1.00	J		11/15/19 11:42	RLD	EPA 8260C
n-Butylbenzene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U Z		11/15/19 11:42	RLD	EPA 8260C
n-Propylbenzene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Naphthalene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
o-Xylene	<0.60	ug/L	0.26	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
p-Isopropyltoluene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB#: 356230 Sample Description: TB-003 Client Sample #: Sampled: 11/04/2019 0800

Analyte	Result	Units	DL	DOD LOD	DOD LOO	RL	DF	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
sec-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U Z		11/15/19 11:42	RLD	EPA 8260C
Styrene	<0.60	ug/L	0.29	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
tert-Butylbenzene	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Tetrachloroethene	<0.60	ug/L	0.27	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Toluene	<0.60	ug/L	0.21	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.60	ug/L	0.23	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Trichloroethene	<0.60	ug/L	0.30	0.60	1.0	1.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Trichlorofluoromethane	<1.0	ug/L	0.40	1.0	2.0	2.0	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Vinyl Acetate	<10	ug/L	5.0	10	20	20	1.00	U		11/15/19 11:42	RLD	EPA 8260C
Vinyl chloride	<0.30	ug/L	0.14	0.30	0.60	0.60	1.00	U		11/15/19 11:42	RLD	EPA 8260C
1,2 Dichloroethane-d4	106	% Recovery	81			118	1.00			11/15/19 11:42	RLD	EPA 8260C
Bromofluorobenzene	101	% Recovery	85			114	1.00			11/15/19 11:42	RLD	EPA 8260C
d8-Toluene	99	% Recovery	89			112	1.00			11/15/19 11:42	RLD	EPA 8260C
Dibromofluoromethane	99	% Recovery	80			119	1.00			11/15/19 11:42	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

Notes:

^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method. DL (detection limit), LOD (limit of detection), loq (limit of quantitation) as defined by most recent DOD QSM version.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

This report has been specifically prepared to satisfy project or program requirements. These results are in compliance with NELAC requirements for the parameters where accreditation is required or available, unless noted in the case narrative.

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 289
Louisiana NELAP (primary) ID# ACC20190002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# 344
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20190002

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QC SUMMARY REPORT

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Duplicate

Analytical Run #:	166542	Analysis Date:	11/21/2019	Prep Batch #:		Matrix:	SOIL
CTLab #:	361819	Analysis Time:	18:37	Prep Date/Time:		Method:	SW8000C
Parent Sample #:	356181	Analyst:	BMM	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	82.9	%	82.3					1	8

Duplicate

Analytical Run #:	166543	Analysis Date:	11/21/2019	Prep Batch #:		Matrix:	SOIL
CTLab #:	361820	Analysis Time:	18:48	Prep Date/Time:		Method:	SW8000C
Parent Sample #:	356191	Analyst:	BMM	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	84.5	%	82.7					2	8

Duplicate

Analytical Run #:	166583	Analysis Date:	11/13/2019	Prep Batch #:		Matrix:	SOIL
CTLab #:	358336	Analysis Time:	9:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:	356219	Analyst:	CLB	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide Reactive	100	mg/kg	<100	U				0	20

Lab Control Spike Soil

Analytical Run #:	166583	Analysis Date:	11/13/2019	Prep Batch #:		Matrix:	SOLID
CTLab #:	358334	Analysis Time:	9:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:		Analyst:	CLB	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide Reactive	100	mg/kg			100	100	70 --- 130		

Matrix Spike Soil

Analytical Run #:	166583	Analysis Date:	11/13/2019	Prep Batch #:		Matrix:	SOIL
CTLab #:	358337	Analysis Time:	9:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:	356219	Analyst:	CLB	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Sulfide Reactive	100	mg/kg	BDL		100	100	70 --- 130		

Duplicate

Analytical Run #:	166589	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	SOIL
CTLab #:	358314	Analysis Time:	09:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:	356219	Analyst:	CLB	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20	mg/kg		U				0	20

Lab Control Spike Soil

Analytical Run #:	166589	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	SOLID
CTLab #:	358315	Analysis Time:	09:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:		Analyst:	CLB	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	mg/kg			20.0	100	70 --- 130		

Method Blank Soil

Analytical Run #:	166589	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	SOLID
CTLab #:	358316	Analysis Time:	09:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:		Analyst:	CLB	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20	mg/kg		U	0.00		8		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Soil

Analytical Run #:	166589	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	SOIL
CTLab #:	358318	Analysis Time:	09:00	Prep Date/Time:		Method:	SW7.3
Parent Sample #:	356219	Analyst:	CLB	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	mg/kg			20.0	100	70 --- 130		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Duplicate

Analytical Run #:	166766	Analysis Date:	11/21/2019	Prep Batch #:	74587	Matrix:	TCLP
CTLab #:	359033	Analysis Time:	07:58	Prep Date/Time:	11/19/2019 14:44	Method:	SW6010
Parent Sample #:	356218	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.00687	mg/L	<0.00400				24	200	20
Barium	0.438	mg/L	0.44				1.80	0	20
Cadmium	0.000300	mg/L	0.00039	U			2.0	200	20
Chromium	0.00171	mg/L	0.0013				4.0	27	20
Lead	0.0170	mg/L	0.017				4.0	0	20
Selenium	0.0114	mg/L	0.011				13.0	4	20
Silver	0.000700	mg/L	<0.000700	U			4.0	0	20

Lab Control Spike Water

Analytical Run #:	166766	Analysis Date:	11/21/2019	Prep Batch #:	74587	Matrix:	LIQUID
CTLab #:	359032	Analysis Time:	07:13	Prep Date/Time:	11/19/2019 14:44	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.824	mg/L			0.800	103	87 --- 113		
Barium	0.794	mg/L			0.800	99	88 --- 113		
Cadmium	0.0178	mg/L			0.0200	89	88 --- 113		
Chromium	0.0802	mg/L			0.0800	100	90 --- 113		
Lead	0.193	mg/L			0.200	96	86 --- 113		
Selenium	0.785	mg/L			0.800	98	83 --- 114		
Silver	0.0168	mg/L			0.0200	84	84 --- 115		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Method Blank Water

Analytical Run #:	166766	Analysis Date:	11/21/2019	Prep Batch #:	74587	Matrix:	LIQUID
CTLab #:	359031	Analysis Time:	07:37	Prep Date/Time:	11/19/2019 14:44	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.004	mg/L		U	0		0.012		
Barium	0.00029	mg/L		U	0		00090		
Cadmium	0.0003	mg/L		U	0		.0010		
Chromium	0.0006	mg/L		U	0		.0020		
Lead	0.0014	mg/L		U	0		.0020		
Selenium	0.0022	mg/L		U	0		.0065		
Silver	0.0007	mg/L		U	0		.0020		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Duplicate Water

Analytical Run #:	166766	Analysis Date:	11/21/2019	Prep Batch #:	74587	Matrix:	TCLP
CTLab #:	359035	Analysis Time:	08:12	Prep Date/Time:	11/19/2019 14:44	Method:	SW6010
Parent Sample #:	359034	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.929	mg/L	BDL		0.800	116	87 --- 113	2	20
Barium	1.22	mg/L	0.44		0.800	98	88 --- 113	4	20
Cadmium	0.0180	mg/L	0.00039		0.0200	88	88 --- 113	3	20
Chromium	0.0823	mg/L	0.0013		0.0800	101	90 --- 113	4	20
Lead	0.197	mg/L	0.017		0.200	90	86 --- 113	2	20
Selenium	1.05	mg/L	0.011		0.800	130	83 --- 114	3	20
Silver	0.0169	mg/L	BDL		0.0200	84	84 --- 115	5	20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Water

Analytical Run #:	166766	Analysis Date:	11/21/2019	Prep Batch #:	74587	Matrix:	TCLP
CTLab #:	359034	Analysis Time:	08:05	Prep Date/Time:	11/19/2019 14:44	Method:	SW6010
Parent Sample #:	356218	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.914	mg/L	BDL		0.800	114	87 --- 113		
Barium	1.17	mg/L	0.44		0.800	91	88 --- 113		
Cadmium	0.0174	mg/L	0.00039		0.0200	85	88 --- 113		
Chromium	0.0794	mg/L	0.0013		0.0800	98	90 --- 113		
Lead	0.194	mg/L	0.017		0.200	88	86 --- 113		
Selenium	1.02	mg/L	0.011		0.800	126	83 --- 114		
Silver	0.0160	mg/L	BDL		0.0200	80	84 --- 115		

Duplicate

Analytical Run #:	166905	Analysis Date:	11/22/2019	Prep Batch #:	74586	Matrix:	TCLP
CTLab #:	359028	Analysis Time:	17:13	Prep Date/Time:	11/21/2019 10:02	Method:	SW7470A
Parent Sample #:	356218	Analyst:	MDS	Prep Analyst:	BMM		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.0000300	mg/L	<0.0000300	U			0.12	0	20

Lab Control Spike Water

Analytical Run #:	166905	Analysis Date:	11/22/2019	Prep Batch #:	74586	Matrix:	LIQUID
CTLab #:	359027	Analysis Time:	16:29	Prep Date/Time:	11/21/2019 10:02	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	BMM		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00189	mg/L			0.00200	94	82 --- 119		

Method Blank Water

Analytical Run #:	166905	Analysis Date:	11/22/2019	Prep Batch #:	74586	Matrix:	LIQUID
CTLab #:	359026	Analysis Time:	16:33	Prep Date/Time:	11/21/2019 10:02	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	BMM		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00003	mg/L		U	0		00006		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Duplicate Water

Analytical Run #:	166905	Analysis Date:	11/22/2019	Prep Batch #:	74586	Matrix:	TCLP
CTLab #:	359030	Analysis Time:	16:53	Prep Date/Time:	11/21/2019 10:02	Method:	SW7470A
Parent Sample #:	359029	Analyst:	MDS	Prep Analyst:	BMM		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00162	mg/L	BDL		0.00200	81	82 --- 119	9	20

Matrix Spike Water

Analytical Run #:	166905	Analysis Date:	11/22/2019	Prep Batch #:	74586	Matrix:	TCLP
CTLab #:	359029	Analysis Time:	16:51	Prep Date/Time:	11/21/2019 10:02	Method:	SW7470A
Parent Sample #:	356218	Analyst:	MDS	Prep Analyst:	BMM		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00176	mg/L	BDL		0.00200	88	82 --- 119		

Lab Control Spike Soil

Analytical Run #:	166497	Analysis Date:	11/12/2019	Prep Batch #:	74482	Matrix:	SOLID
CTLab #:	356998	Analysis Time:	17:19	Prep Date/Time:	11/12/2019 10:15	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	9.10	ug/kg			10.0	91	78 --- 125		20
1,1,1-Trichloroethane	9.10	ug/kg			10.0	91	73 --- 130		20
1,1,2,2-Tetrachloroethane	9.20	ug/kg			10.0	92	70 --- 124		20
1,1,2-Trichloroethane	9.10	ug/kg			10.0	91	78 --- 121		20
1,1-Dichloroethane	8.90	ug/kg			10.0	89	76 --- 125		20
1,1-Dichloroethene	9.00	ug/kg			10.0	90	70 --- 131		20
1,1-Dichloropropene	8.70	ug/kg			10.0	87	76 --- 125		20
1,2,3-Trichlorobenzene	9.80	ug/kg			10.0	98	66 --- 130		20
1,2,3-Trichloropropane	7.70	ug/kg			10.0	77	73 --- 125		20
1,2,4-Trichlorobenzene	9.70	ug/kg			10.0	97	67 --- 129		20
1,2,4-Trimethylbenzene	9.10	ug/kg			10.0	91	75 --- 123		20
1,2-Dibromo-3-chloropropane	9.20	ug/kg			10.0	92	61 --- 132		20
1,2-Dibromoethane	9.40	ug/kg			10.0	94	78 --- 122		20
1,2-Dichlorobenzene	9.30	ug/kg			10.0	93	78 --- 121		20
1,2-Dichloroethane	8.80	ug/kg			10.0	88	73 --- 128		20
1,2-Dichloropropane	9.00	ug/kg			10.0	90	76 --- 123		20
1,3,5-Trimethylbenzene	9.50	ug/kg			10.0	95	73 --- 124		20
1,3-Dichlorobenzene	9.30	ug/kg			10.0	93	77 --- 121		20
1,3-Dichloropropane	9.40	ug/kg			10.0	94	77 --- 121		20
1,4-Dichlorobenzene	9.50	ug/kg			10.0	95	75 --- 120		20
1,4-Dioxane	427	ug/kg			500	85	55 --- 138		20
112Trichloro122trifluoroethane	18.6	ug/kg			20.0	93	66 --- 136		20
2,2-Dichloropropane	9.10	ug/kg			10.0	91	67 --- 133		20
2-Butanone	86.8	ug/kg			100	87	51 --- 148		20
2-Chlorotoluene	9.30	ug/kg			10.0	93	75 --- 122		20
2-Hexanone	95.0	ug/kg			100	95	53 --- 145		20
4-Chlorotoluene	9.30	ug/kg			10.0	93	72 --- 124		20
4-Methyl-2-pentanone	95.2	ug/kg			100	95	65 --- 135		20
Acetone	90.7	ug/kg			100	91	36 --- 164		20
Benzene	9.00	ug/kg			10.0	90	77 --- 121		20
Bromobenzene	9.30	ug/kg			10.0	93	78 --- 121		20
Bromochloromethane	9.50	ug/kg			10.0	95	78 --- 125		20
Bromodichloromethane	9.20	ug/kg			10.0	92	75 --- 127		20
Bromoform	9.20	ug/kg			10.0	92	67 --- 132		20
Bromomethane	9.30	ug/kg			10.0	93	53 --- 143		20
Carbon disulfide	17.7	ug/kg			20.0	88	63 --- 132		20
Carbon tetrachloride	9.40	ug/kg			10.0	94	70 --- 135		20
Chlorobenzene	8.90	ug/kg			10.0	89	79 --- 120		20
Chloroethane	8.60	ug/kg			10.0	86	59 --- 139		20
Chloroform	9.00	ug/kg			10.0	90	78 --- 123		20
Chloromethane	8.70	ug/kg			10.0	87	50 --- 136		20
cis-1,2-Dichloroethene	9.20	ug/kg			10.0	92	77 --- 123		20
cis-1,3-Dichloropropene	9.40	ug/kg			10.0	94	74 --- 126		20

Lab Control Spike Soil

Analytical Run #:	166497	Analysis Date:	11/12/2019	Prep Batch #:	74482	Matrix:	SOLID
CTLab #:	356998	Analysis Time:	17:19	Prep Date/Time:	11/12/2019 10:15	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Dibromochloromethane	9.10	ug/kg			10.0	91	74 --- 126		20
Dibromomethane	9.60	ug/kg			10.0	96	78 --- 125		20
Dichlorodifluoromethane	9.00	ug/kg			10.0	90	29 --- 149		20
Ethylbenzene	9.10	ug/kg			10.0	91	76 --- 122		20
Hexachlorobutadiene	9.60	ug/kg			10.0	96	61 --- 135		20
Isopropylbenzene	9.10	ug/kg			10.0	91	68 --- 134		20
m & p-Xylene	18.4	ug/kg			20.0	92	77 --- 124		20
Methylene chloride	9.10	ug/kg			10.0	91	70 --- 128		20
n-Butylbenzene	9.70	ug/kg			10.0	97	70 --- 128		20
n-Propylbenzene	9.30	ug/kg			10.0	93	73 --- 125		20
Naphthalene	9.90	ug/kg			10.0	99	62 --- 129		20
o-Xylene	9.10	ug/kg			10.0	91	77 --- 123		20
p-Isopropyltoluene	9.60	ug/kg			10.0	96	73 --- 127		20
sec-Butylbenzene	9.50	ug/kg			10.0	95	73 --- 126		20
Styrene	9.30	ug/kg			10.0	93	76 --- 124		20
tert-Butylbenzene	9.30	ug/kg			10.0	93	73 --- 125		20
Tetrachloroethene	8.70	ug/kg			10.0	87	73 --- 128		20
Toluene	8.90	ug/kg			10.0	89	77 --- 121		20
trans-1,2-Dichloroethene	8.80	ug/kg			10.0	88	74 --- 125		20
trans-1,3-Dichloropropene	9.20	ug/kg			10.0	92	71 --- 130		20
Trichloroethene	8.90	ug/kg			10.0	89	77 --- 123		20
Trichlorofluoromethane	9.30	ug/kg			10.0	93	62 --- 140		20
Vinyl Acetate	92.0	ug/kg			100	92	50 --- 151		20
Vinyl chloride	8.70	ug/kg			10.0	87	78 --- 124		20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Method Blank Soil

Analytical Run #:	166497	Analysis Date:	11/12/2019	Prep Batch #:	74482	Matrix:	SOLID
CTLab #:	356997	Analysis Time:	18:17	Prep Date/Time:	11/12/2019 10:15	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.3	ug/kg		U	0		1.0		
1,1,1-Trichloroethane	0.3	ug/kg		U	0		1.0		
1,1,2,2-Tetrachloroethane	0.5	ug/kg		U	0		1.0		
1,1,2-Trichloroethane	0.4	ug/kg		U	0		1.0		
1,1-Dichloroethane	0.4	ug/kg		U	0		1.0		
1,1-Dichloroethene	0.4	ug/kg		U	0		1.0		
1,1-Dichloropropene	0.4	ug/kg		U	0		1.0		
1,2,3-Trichlorobenzene	0.9	ug/kg		U	0		2.0		
1,2,3-Trichloropropane	0.5	ug/kg		U	0		1.0		
1,2,4-Trichlorobenzene	0.9	ug/kg		U	0		2.0		
1,2,4-Trimethylbenzene	0.8	ug/kg		U	0		2.0		
1,2-Dibromo-3-chloropropane	1.3	ug/kg		U	0		2.0		
1,2-Dibromoethane	0.4	ug/kg		U	0		1.0		
1,2-Dichlorobenzene	0.9	ug/kg		U	0		2.0		
1,2-Dichloroethane	0.5	ug/kg		U	0		1.0		
1,2-Dichloropropane	0.4	ug/kg		U	0		1.0		
1,3,5-Trimethylbenzene	0.9	ug/kg		U	0		2.0		
1,3-Dichlorobenzene	0.9	ug/kg		U	0		2.0		
1,3-Dichloropropane	0.4	ug/kg		U	0		1.0		
1,4-Dichlorobenzene	0.9	ug/kg		U	0		2.0		
1,4-Dioxane	34	ug/kg		U	0		50		
112Trichloro122trifluoroethane	1.0	ug/kg		U	0		2.0		
2,2-Dichloropropane	0.4	ug/kg		U	0		1.0		
2-Butanone	10	ug/kg		U	0		20		
2-Chlorotoluene	1.0	ug/kg		U	0		2.0		
2-Hexanone	11	ug/kg		U	0		20		
4-Chlorotoluene	0.9	ug/kg		U	0		2.0		
4-Methyl-2-pentanone	10	ug/kg		U	0		20		
Acetone	10	ug/kg		U	0		20		
Benzene	0.3	ug/kg		U	0		1.0		
Bromobenzene	0.5	ug/kg		U	0		1.0		
Bromochloromethane	0.4	ug/kg		U	0		1.0		
Bromodichloromethane	0.4	ug/kg		U	0		1.0		
Bromoform	0.4	ug/kg		U	0		1.0		
Bromomethane	0.7	ug/kg		U	0		2.0		
Carbon disulfide	0.9	ug/kg		U	0		2.0		
Carbon tetrachloride	0.3	ug/kg		U	0		1.0		
Chlorobenzene	0.4	ug/kg		U	0		1.0		
Chloroethane	0.5	ug/kg		U	0		1.0		
Chloroform	0.4	ug/kg		U	0		1.0		
Chloromethane	0.4	ug/kg		U	0		1.0		
cis-1,2-Dichloroethene	0.4	ug/kg		U	0		1.0		
cis-1,3-Dichloropropene	0.3	ug/kg		U	0		1.0		

Method Blank Soil

Analytical Run #:	166497	Analysis Date:	11/12/2019	Prep Batch #:	74482	Matrix:	SOLID
CTLab #:	356997	Analysis Time:	18:17	Prep Date/Time:	11/12/2019 10:15	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Dibromochloromethane	0.4	ug/kg		U	0		1.0		
Dibromomethane	0.4	ug/kg		U	0		1.0		
Dichlorodifluoromethane	1.0	ug/kg		U	0		2.0		
Ethylbenzene	0.4	ug/kg		U	0		1.0		
Hexachlorobutadiene	1.0	ug/kg		U	0		2.0		
Isopropylbenzene	0.3	ug/kg		U	0		1.0		
m & p-Xylene	0.7	ug/kg		U	0		2.0		
Methylene chloride	1.7	ug/kg		U	0		2.0		
n-Butylbenzene	0.9	ug/kg		U	0		2.0		
n-Propylbenzene	0.9	ug/kg		U	0		2.0		
Naphthalene	1.0	ug/kg		U	0		2.0		
o-Xylene	0.4	ug/kg		U	0		1.0		
p-Isopropyltoluene	1.0	ug/kg		U	0		2.0		
sec-Butylbenzene	0.9	ug/kg		U	0		2.0		
Styrene	0.3	ug/kg		U	0		1.0		
tert-Butylbenzene	0.9	ug/kg		U	0		2.0		
Tetrachloroethene	0.4	ug/kg		U	0		1.0		
Toluene	0.4	ug/kg		U	0		1.0		
trans-1,2-Dichloroethene	0.4	ug/kg		U	0		1.0		
trans-1,3-Dichloropropene	0.4	ug/kg		U	0		1.0		
Trichloroethene	0.3	ug/kg		U	0		1.0		
Trichlorofluoromethane	0.5	ug/kg		U	0		1.0		
Vinyl Acetate	12	ug/kg		U	0		20		
Vinyl chloride	0.5	ug/kg		U	0		1.0		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Duplicate Soil

Analytical Run #:	166497	Analysis Date:	11/14/2019	Prep Batch #:	74482	Matrix:	SOIL
CTLab #:	356996	Analysis Time:	15:35	Prep Date/Time:	11/12/2019 10:15	Method:	SW8260C
Parent Sample #:	356995	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	11.8	ug/kg	BDL		13.0	91	78 --- 125	6	20
1,1,1-Trichloroethane	13.2	ug/kg	BDL		13.0	102	73 --- 130	8	20
1,1,2,2-Tetrachloroethane	15.0	ug/kg	BDL		13.0	115	70 --- 124	33	20
1,1,2-Trichloroethane	13.1	ug/kg	BDL		13.0	101	78 --- 121	17	20
1,1-Dichloroethane	12.7	ug/kg	BDL		13.0	98	76 --- 125	9	20
1,1-Dichloroethene	13.1	ug/kg	BDL		13.0	101	70 --- 131	15	20
1,1-Dichloropropene	13.2	ug/kg	BDL		13.0	102	76 --- 125	10	20
1,2 Dichloroethane-d4	110	% Recovery			100	110	71 --- 136		
1,2,3-Trichlorobenzene	8.16	ug/kg	BDL		13.0	63	66 --- 130	90	20
1,2,3-Trichloropropane	17.4	ug/kg	1.18		13.0	125	73 --- 125	25	20
1,2,4-Trichlorobenzene	9.59	ug/kg	BDL		13.0	74	67 --- 129	77	20
1,2,4-Trimethylbenzene	13.6	ug/kg	BDL		13.0	105	75 --- 123	27	20
1,2-Dibromo-3-chloropropane	13.5	ug/kg	BDL		13.0	104	61 --- 132	68	20
1,2-Dibromoethane	12.8	ug/kg	BDL		13.0	98	78 --- 122	21	20
1,2-Dichlorobenzene	12.4	ug/kg	BDL		13.0	95	78 --- 121	45	20
1,2-Dichloroethane	12.8	ug/kg	BDL		13.0	98	73 --- 128	7	20
1,2-Dichloropropane	13.3	ug/kg	BDL		13.0	102	76 --- 123	5	20
1,3,5-Trimethylbenzene	14.2	ug/kg	BDL		13.0	109	73 --- 124	27	20
1,3-Dichlorobenzene	12.7	ug/kg	BDL		13.0	98	77 --- 121	39	20
1,3-Dichloropropane	13.0	ug/kg	BDL		13.0	100	77 --- 121	20	20
1,4-Dichlorobenzene	13.1	ug/kg	BDL		13.0	101	75 --- 120	40	20
1,4-Dioxane	1570	ug/kg	BDL		648	242	55 --- 138	175	20
112Trichloro122trifluoroethane	31.1	ug/kg	BDL		25.9	120	66 --- 136	4	20
2,2-Dichloropropane	13.7	ug/kg	<0.518		13.0	102	67 --- 133	9	20
2-Butanone	150	ug/kg	BDL		130	115	51 --- 148	62	20
2-Chlorotoluene	13.7	ug/kg	BDL		13.0	105	75 --- 122	22	20
2-Hexanone	162	ug/kg	BDL		130	125	53 --- 145	58	20
4-Chlorotoluene	13.9	ug/kg	BDL		13.0	107	72 --- 124	26	20
4-Methyl-2-pentanone	160	ug/kg	BDL		130	123	65 --- 135	45	20
Acetone	141	ug/kg	BDL		130	108	36 --- 164	64	20
Benzene	12.7	ug/kg	BDL		13.0	98	77 --- 121	5	20
Bromobenzene	13.5	ug/kg	BDL		13.0	104	78 --- 121	22	20
Bromochloromethane	13.5	ug/kg	BDL		13.0	104	78 --- 125	6	20
Bromodichloromethane	13.0	ug/kg	BDL		13.0	100	75 --- 127	8	20
Bromofluorobenzene	105	% Recovery			100	105	79 --- 119		
Bromoform	12.3	ug/kg	BDL		13.0	95	67 --- 132	30	20
Bromomethane	9.72	ug/kg	BDL		13.0	75	53 --- 143	63	20
Carbon disulfide	28.1	ug/kg	BDL		25.9	108	63 --- 132	9	20
Carbon tetrachloride	13.5	ug/kg	BDL		13.0	104	70 --- 135	10	20
Chlorobenzene	12.0	ug/kg	BDL		13.0	92	79 --- 120	7	20
Chloroethane	13.2	ug/kg	BDL		13.0	102	59 --- 139	10	20
Chloroform	12.8	ug/kg	BDL		13.0	98	78 --- 123	5	20
Chloromethane	14.1	ug/kg	BDL		13.0	108	50 --- 136	7	20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Duplicate Soil

Analytical Run #:	166497	Analysis Date:	11/14/2019	Prep Batch #:	74482	Matrix:	SOIL
CTLab #:	356996	Analysis Time:	15:35	Prep Date/Time:	11/12/2019 10:15	Method:	SW8260C
Parent Sample #:	356995	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	12.4	ug/kg	BDL		13.0	95	77 --- 123	6	20
cis-1,3-Dichloropropene	12.4	ug/kg	BDL		13.0	95	74 --- 126	8	20
d8-Toluene	100	% Recovery			100	100	85 --- 116		
Dibromochloromethane	12.6	ug/kg	BDL		13.0	97	74 --- 126	16	20
Dibromofluoromethane	105	% Recovery			100	105	78 --- 119		
Dibromomethane	14.2	ug/kg	BDL		13.0	109	78 --- 125	19	20
Dichlorodifluoromethane	14.9	ug/kg	BDL		13.0	115	29 --- 149	20	20
Ethylbenzene	12.7	ug/kg	BDL		13.0	98	76 --- 122	5	20
Hexachlorobutadiene	14.1	ug/kg	BDL		13.0	108	61 --- 135	76	20
Isopropylbenzene	13.0	ug/kg	BDL		13.0	100	68 --- 134	15	20
m & p-Xylene	25.5	ug/kg	BDL		25.9	98	77 --- 124	11	20
Methylene chloride	15.0	ug/kg	BDL		13.0	115	70 --- 128	3	20
n-Butylbenzene	15.7	ug/kg	BDL		13.0	121	70 --- 128	53	20
n-Propylbenzene	14.5	ug/kg	BDL		13.0	112	73 --- 125	21	20
Naphthalene	7.25	ug/kg	BDL		13.0	56	62 --- 129	95	20
o-Xylene	12.4	ug/kg	BDL		13.0	95	77 --- 123	13	20
p-Isopropyltoluene	15.3	ug/kg	BDL		13.0	118	73 --- 127	37	20
sec-Butylbenzene	15.3	ug/kg	BDL		13.0	118	73 --- 126	36	20
Styrene	11.9	ug/kg	BDL		13.0	92	76 --- 124	23	20
tert-Butylbenzene	14.5	ug/kg	BDL		13.0	112	73 --- 125	20	20
Tetrachloroethene	13.3	ug/kg	BDL		13.0	102	73 --- 128	7	20
Toluene	12.4	ug/kg	BDL		13.0	95	77 --- 121	4	20
trans-1,2-Dichloroethene	13.0	ug/kg	BDL		13.0	100	74 --- 125	8	20
trans-1,3-Dichloropropene	12.7	ug/kg	BDL		13.0	98	71 --- 130	19	20
Trichloroethene	12.8	ug/kg	BDL		13.0	98	77 --- 123	11	20
Trichlorofluoromethane	14.4	ug/kg	BDL		13.0	111	62 --- 140	13	20
Vinyl Acetate	137	ug/kg	BDL		130	105	50 --- 151	10	20
Vinyl chloride	14.1	ug/kg	BDL		13.0	108	56 --- 135	14	20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Soil

Analytical Run #:	166497	Analysis Date:	11/13/2019	Prep Batch #:	74482	Matrix:	SOIL
CTLab #:	356995	Analysis Time:	03:28	Prep Date/Time:	11/12/2019 10:15	Method:	SW8260C
Parent Sample #:	356181	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	8.58	ug/kg	BDL		9.98	86	78 --- 125		
1,1,1-Trichloroethane	11.1	ug/kg	BDL		9.98	111	73 --- 130		
1,1,2,2-Tetrachloroethane	8.28	ug/kg	BDL		9.98	83	70 --- 124		
1,1,2-Trichloroethane	8.48	ug/kg	BDL		9.98	85	78 --- 121		
1,1-Dichloroethane	10.7	ug/kg	BDL		9.98	107	76 --- 125		
1,1-Dichloroethene	11.7	ug/kg	BDL		9.98	117	70 --- 131		
1,1-Dichloropropene	11.3	ug/kg	BDL		9.98	113	76 --- 125		
1,2 Dichloroethane-d4	110	% Recovery			100	110	71 --- 136		
1,2,3-Trichlorobenzene	2.39	ug/kg	BDL		9.98	24	66 --- 130		
1,2,3-Trichloropropane	10.4	ug/kg	1.18		9.98	92	73 --- 125		
1,2,4-Trichlorobenzene	3.29	ug/kg	BDL		9.98	33	67 --- 129		
1,2,4-Trimethylbenzene	7.98	ug/kg	BDL		9.98	80	75 --- 123		
1,2-Dibromo-3-chloropropane	5.09	ug/kg	BDL		9.98	51	61 --- 132		
1,2-Dibromoethane	7.98	ug/kg	BDL		9.98	80	78 --- 122		
1,2-Dichlorobenzene	6.09	ug/kg	BDL		9.98	61	78 --- 121		
1,2-Dichloroethane	9.18	ug/kg	BDL		9.98	92	73 --- 128		
1,2-Dichloropropane	9.78	ug/kg	BDL		9.98	98	76 --- 123		
1,3,5-Trimethylbenzene	8.38	ug/kg	BDL		9.98	84	73 --- 124		
1,3-Dichlorobenzene	6.58	ug/kg	BDL		9.98	66	77 --- 121		
1,3-Dichloropropane	8.18	ug/kg	BDL		9.98	82	77 --- 121		
1,4-Dichlorobenzene	6.68	ug/kg	BDL		9.98	67	75 --- 120		
1,4-Dioxane	80.9	ug/kg	BDL		499	16	55 --- 138		
112Trichloro122trifluoroethane	24.8	ug/kg	BDL		20.0	124	66 --- 136		
2,2-Dichloropropane	11.6	ug/kg	0.422		9.98	112	67 --- 133		
2-Butanone	60.6	ug/kg	BDL		99.8	61	51 --- 148		
2-Chlorotoluene	8.48	ug/kg	BDL		9.98	85	75 --- 122		
2-Hexanone	68.7	ug/kg	BDL		99.8	69	53 --- 145		
4-Chlorotoluene	8.18	ug/kg	BDL		9.98	82	72 --- 124		
4-Methyl-2-pentanone	77.7	ug/kg	BDL		99.8	78	65 --- 135		
Acetone	56.0	ug/kg	BDL		99.8	56	36 --- 164		
Benzene	10.3	ug/kg	BDL		9.98	103	77 --- 121		
Bromobenzene	8.28	ug/kg	BDL		9.98	83	78 --- 121		
Bromochloromethane	9.78	ug/kg	BDL		9.98	98	78 --- 125		
Bromodichloromethane	9.18	ug/kg	BDL		9.98	92	75 --- 127		
Bromofluorobenzene	110	% Recovery			100	110	79 --- 119		
Bromoform	6.98	ug/kg	BDL		9.98	70	67 --- 132		
Bromomethane	14.4	ug/kg	BDL		9.98	144	53 --- 143		
Carbon disulfide	23.7	ug/kg	BDL		20.0	118	63 --- 132		
Carbon tetrachloride	11.5	ug/kg	BDL		9.98	115	70 --- 135		
Chlorobenzene	8.68	ug/kg	BDL		9.98	87	79 --- 120		
Chloroethane	11.3	ug/kg	BDL		9.98	113	59 --- 139		
Chloroform	10.4	ug/kg	BDL		9.98	104	78 --- 123		
Chloromethane	11.7	ug/kg	BDL		9.98	117	50 --- 136		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Soil

Analytical Run #:	166497	Analysis Date:	11/13/2019	Prep Batch #:	74482	Matrix:	SOIL
CTLab #:	356995	Analysis Time:	03:28	Prep Date/Time:	11/12/2019 10:15	Method:	SW8260C
Parent Sample #:	356181	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	10.2	ug/kg	BDL		9.98	102	77 --- 123		
cis-1,3-Dichloropropene	8.88	ug/kg	BDL		9.98	89	74 --- 126		
d8-Toluene	100	% Recovery			100	100	85 --- 116		
Dibromochloromethane	8.28	ug/kg	BDL		9.98	83	74 --- 126		
Dibromofluoromethane	105	% Recovery			100	105	78 --- 119		
Dibromomethane	9.08	ug/kg	BDL		9.98	91	78 --- 125		
Dichlorodifluoromethane	14.0	ug/kg	BDL		9.98	140	29 --- 149		
Ethylbenzene	9.28	ug/kg	BDL		9.98	93	76 --- 122		
Hexachlorobutadiene	4.89	ug/kg	BDL		9.98	49	61 --- 135		
Isopropylbenzene	8.58	ug/kg	BDL		9.98	86	68 --- 134		
m & p-Xylene	17.7	ug/kg	BDL		20.0	88	77 --- 124		
Methylene chloride	11.3	ug/kg	BDL		9.98	113	70 --- 128		
n-Butylbenzene	6.98	ug/kg	BDL		9.98	70	70 --- 128		
n-Propylbenzene	9.08	ug/kg	BDL		9.98	91	73 --- 125		
Naphthalene	2.00	ug/kg	BDL		9.98	20	62 --- 129		
o-Xylene	8.38	ug/kg	BDL		9.98	84	77 --- 123		
p-Isopropyltoluene	8.08	ug/kg	BDL		9.98	81	73 --- 127		
sec-Butylbenzene	8.18	ug/kg	BDL		9.98	82	73 --- 126		
Styrene	7.28	ug/kg	BDL		9.98	73	76 --- 124		
tert-Butylbenzene	9.18	ug/kg	BDL		9.98	92	73 --- 125		
Tetrachloroethene	9.58	ug/kg	BDL		9.98	96	73 --- 128		
Toluene	9.98	ug/kg	BDL		9.98	100	77 --- 121		
trans-1,2-Dichloroethene	10.8	ug/kg	BDL		9.98	108	74 --- 125		
trans-1,3-Dichloropropene	8.08	ug/kg	BDL		9.98	81	71 --- 130		
Trichloroethene	11.0	ug/kg	BDL		9.98	110	77 --- 123		
Trichlorofluoromethane	12.7	ug/kg	BDL		9.98	127	62 --- 140		
Vinyl Acetate	95.0	ug/kg	BDL		99.8	95	50 --- 151		
Vinyl chloride	12.6	ug/kg	BDL		9.98	126	56 --- 135		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Lab Control Spike Soil

Analytical Run #:	166498	Analysis Date:	11/13/2019	Prep Batch #:	74483	Matrix:	SOLID
CTLab #:	357003	Analysis Time:	08:12	Prep Date/Time:	11/12/2019 10:40	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	8.70	ug/kg			10.0	87	78 --- 125		20
1,1,1-Trichloroethane	8.60	ug/kg			10.0	86	73 --- 130		20
1,1,2,2-Tetrachloroethane	8.70	ug/kg			10.0	87	70 --- 124		20
1,1,2-Trichloroethane	9.10	ug/kg			10.0	91	78 --- 121		20
1,1-Dichloroethane	9.00	ug/kg			10.0	90	76 --- 125		20
1,1-Dichloroethene	8.70	ug/kg			10.0	87	70 --- 131		20
1,1-Dichloropropene	8.50	ug/kg			10.0	85	76 --- 125		20
1,2,3-Trichlorobenzene	9.10	ug/kg			10.0	91	66 --- 130		20
1,2,3-Trichloropropane	9.70	ug/kg			10.0	97	73 --- 125		20
1,2,4-Trichlorobenzene	8.90	ug/kg			10.0	89	67 --- 129		20
1,2,4-Trimethylbenzene	8.60	ug/kg			10.0	86	75 --- 123		20
1,2-Dibromo-3-chloropropane	8.00	ug/kg			10.0	80	61 --- 132		20
1,2-Dibromoethane	9.20	ug/kg			10.0	92	78 --- 122		20
1,2-Dichlorobenzene	8.80	ug/kg			10.0	88	78 --- 121		20
1,2-Dichloroethane	9.30	ug/kg			10.0	93	73 --- 128		20
1,2-Dichloropropane	9.40	ug/kg			10.0	94	76 --- 123		20
1,3,5-Trimethylbenzene	8.90	ug/kg			10.0	89	73 --- 124		20
1,3-Dichlorobenzene	8.70	ug/kg			10.0	87	77 --- 121		20
1,3-Dichloropropane	9.50	ug/kg			10.0	95	77 --- 121		20
1,4-Dichlorobenzene	8.70	ug/kg			10.0	87	75 --- 120		20
1,4-Dioxane	391	ug/kg			500	78	55 --- 138		20
112Trichloro122trifluoroethane	18.2	ug/kg			20.0	91	66 --- 136		20
2,2-Dichloropropane	9.00	ug/kg			10.0	90	67 --- 133		20
2-Butanone	86.1	ug/kg			100	86	51 --- 148		20
2-Chlorotoluene	8.60	ug/kg			10.0	86	75 --- 122		20
2-Hexanone	91.8	ug/kg			100	92	53 --- 145		20
4-Chlorotoluene	8.80	ug/kg			10.0	88	72 --- 124		20
4-Methyl-2-pentanone	92.9	ug/kg			100	93	65 --- 135		20
Acetone	87.8	ug/kg			100	88	36 --- 164		20
Benzene	8.90	ug/kg			10.0	89	77 --- 121		20
Bromobenzene	8.80	ug/kg			10.0	88	78 --- 121		20
Bromochloromethane	9.70	ug/kg			10.0	97	78 --- 125		20
Bromodichloromethane	9.20	ug/kg			10.0	92	75 --- 127		20
Bromoform	8.70	ug/kg			10.0	87	67 --- 132		20
Bromomethane	6.20	ug/kg			10.0	62	53 --- 143		20
Carbon disulfide	17.5	ug/kg			20.0	88	63 --- 132		20
Carbon tetrachloride	8.90	ug/kg			10.0	89	70 --- 135		20
Chlorobenzene	8.60	ug/kg			10.0	86	79 --- 120		20
Chloroethane	8.50	ug/kg			10.0	85	59 --- 139		20
Chloroform	9.30	ug/kg			10.0	93	78 --- 123		20
Chloromethane	9.20	ug/kg			10.0	92	50 --- 136		20
cis-1,2-Dichloroethene	9.00	ug/kg			10.0	90	77 --- 123		20
cis-1,3-Dichloropropene	9.30	ug/kg			10.0	93	74 --- 126		20

Lab Control Spike Soil

Analytical Run #:	166498	Analysis Date:	11/13/2019	Prep Batch #:	74483	Matrix:	SOLID
CTLab #:	357003	Analysis Time:	08:12	Prep Date/Time:	11/12/2019 10:40	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Dibromochloromethane	9.00	ug/kg			10.0	90	74 --- 126		20
Dibromomethane	9.40	ug/kg			10.0	94	78 --- 125		20
Dichlorodifluoromethane	8.60	ug/kg			10.0	86	29 --- 149		20
Ethylbenzene	8.90	ug/kg			10.0	89	76 --- 122		20
Hexachlorobutadiene	9.20	ug/kg			10.0	92	61 --- 135		20
Isopropylbenzene	8.90	ug/kg			10.0	89	68 --- 134		20
m & p-Xylene	17.2	ug/kg			20.0	86	77 --- 124		20
Methylene chloride	8.90	ug/kg			10.0	89	70 --- 128		20
n-Butylbenzene	8.60	ug/kg			10.0	86	70 --- 128		20
n-Propylbenzene	8.50	ug/kg			10.0	85	73 --- 125		20
Naphthalene	9.00	ug/kg			10.0	90	62 --- 129		20
o-Xylene	8.80	ug/kg			10.0	88	77 --- 123		20
p-Isopropyltoluene	8.90	ug/kg			10.0	89	73 --- 127		20
sec-Butylbenzene	8.90	ug/kg			10.0	89	73 --- 126		20
Styrene	9.00	ug/kg			10.0	90	76 --- 124		20
tert-Butylbenzene	8.80	ug/kg			10.0	88	73 --- 125		20
Tetrachloroethene	8.50	ug/kg			10.0	85	73 --- 128		20
Toluene	8.70	ug/kg			10.0	87	77 --- 121		20
trans-1,2-Dichloroethene	8.60	ug/kg			10.0	86	74 --- 125		20
trans-1,3-Dichloropropene	9.30	ug/kg			10.0	93	71 --- 130		20
Trichloroethene	8.80	ug/kg			10.0	88	77 --- 123		20
Trichlorofluoromethane	9.10	ug/kg			10.0	91	62 --- 140		20
Vinyl Acetate	90.7	ug/kg			100	91	50 --- 151		20
Vinyl chloride	8.80	ug/kg			10.0	88	78 --- 124		20

Method Blank Soil

Analytical Run #:	166498	Analysis Date:	11/13/2019	Prep Batch #:	74483	Matrix:	SOLID
CTLab #:	357002	Analysis Time:	09:09	Prep Date/Time:	11/12/2019 10:40	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.3	ug/kg		U	0		1.0		
1,1,1-Trichloroethane	0.3	ug/kg		U	0		1.0		
1,1,2,2-Tetrachloroethane	0.5	ug/kg		U	0		1.0		
1,1,2-Trichloroethane	0.4	ug/kg		U	0		1.0		
1,1-Dichloroethane	0.4	ug/kg		U	0		1.0		
1,1-Dichloroethene	0.4	ug/kg		U	0		1.0		
1,1-Dichloropropene	0.4	ug/kg		U	0		1.0		
1,2,3-Trichlorobenzene	0.9	ug/kg		U	0		2.0		
1,2,3-Trichloropropane	0.5	ug/kg		U	0		1.0		
1,2,4-Trichlorobenzene	0.9	ug/kg		U	0		2.0		
1,2,4-Trimethylbenzene	0.8	ug/kg		U	0		2.0		
1,2-Dibromo-3-chloropropane	1.3	ug/kg		U	0		2.0		
1,2-Dibromoethane	0.4	ug/kg		U	0		1.0		
1,2-Dichlorobenzene	0.9	ug/kg		U	0		2.0		
1,2-Dichloroethane	0.5	ug/kg		U	0		1.0		
1,2-Dichloropropane	0.4	ug/kg		U	0		1.0		
1,3,5-Trimethylbenzene	0.9	ug/kg		U	0		2.0		
1,3-Dichlorobenzene	0.9	ug/kg		U	0		2.0		
1,3-Dichloropropane	0.4	ug/kg		U	0		1.0		
1,4-Dichlorobenzene	0.9	ug/kg		U	0		2.0		
1,4-Dioxane	34	ug/kg		U	0		50		
112Trichloro122trifluoroethane	1.0	ug/kg		U	0		2.0		
2,2-Dichloropropane	0.4	ug/kg		U	0		1.0		
2-Butanone	10	ug/kg		U	0		20		
2-Chlorotoluene	1.0	ug/kg		U	0		2.0		
2-Hexanone	11	ug/kg		U	0		20		
4-Chlorotoluene	0.9	ug/kg		U	0		2.0		
4-Methyl-2-pentanone	10	ug/kg		U	0		20		
Acetone	10	ug/kg		U	0		20		
Benzene	0.3	ug/kg		U	0		1.0		
Bromobenzene	0.5	ug/kg		U	0		1.0		
Bromochloromethane	0.4	ug/kg		U	0		1.0		
Bromodichloromethane	0.4	ug/kg		U	0		1.0		
Bromoform	0.4	ug/kg		U	0		1.0		
Bromomethane	0.7	ug/kg		U	0		2.0		
Carbon disulfide	0.9	ug/kg		U	0		2.0		
Carbon tetrachloride	0.3	ug/kg		U	0		1.0		
Chlorobenzene	0.4	ug/kg		U	0		1.0		
Chloroethane	0.5	ug/kg		U	0		1.0		
Chloroform	0.4	ug/kg		U	0		1.0		
Chloromethane	0.4	ug/kg		U	0		1.0		
cis-1,2-Dichloroethene	0.4	ug/kg		U	0		1.0		
cis-1,3-Dichloropropene	0.3	ug/kg		U	0		1.0		

Method Blank Soil

Analytical Run #:	166498	Analysis Date:	11/13/2019	Prep Batch #:	74483	Matrix:	SOLID
CTLab #:	357002	Analysis Time:	09:09	Prep Date/Time:	11/12/2019 10:40	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Dibromochloromethane	0.4	ug/kg		U	0		1.0		
Dibromomethane	0.4	ug/kg		U	0		1.0		
Dichlorodifluoromethane	1.0	ug/kg		U	0		2.0		
Ethylbenzene	0.4	ug/kg		U	0		1.0		
Hexachlorobutadiene	1.0	ug/kg		U	0		2.0		
Isopropylbenzene	0.3	ug/kg		U	0		1.0		
m & p-Xylene	0.7	ug/kg		U	0		2.0		
Methylene chloride	1.7	ug/kg		U	0		2.0		
n-Butylbenzene	0.9	ug/kg		U	0		2.0		
n-Propylbenzene	0.9	ug/kg		U	0		2.0		
Naphthalene	1.0	ug/kg		U	0		2.0		
o-Xylene	0.4	ug/kg		U	0		1.0		
p-Isopropyltoluene	1.0	ug/kg		U	0		2.0		
sec-Butylbenzene	0.9	ug/kg		U	0		2.0		
Styrene	0.3	ug/kg		U	0		1.0		
tert-Butylbenzene	0.9	ug/kg		U	0		2.0		
Tetrachloroethene	0.4	ug/kg		U	0		1.0		
Toluene	0.4	ug/kg		U	0		1.0		
trans-1,2-Dichloroethene	0.4	ug/kg		U	0		1.0		
trans-1,3-Dichloropropene	0.4	ug/kg		U	0		1.0		
Trichloroethene	0.3	ug/kg		U	0		1.0		
Trichlorofluoromethane	0.5	ug/kg		U	0		1.0		
Vinyl Acetate	12	ug/kg		U	0		20		
Vinyl chloride	0.5	ug/kg		U	0		1.0		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Duplicate Soil

Analytical Run #:	166498	Analysis Date:	11/13/2019	Prep Batch #:	74483	Matrix:	SOIL
CTLab #:	357001	Analysis Time:	18:50	Prep Date/Time:	11/12/2019 10:40	Method:	SW8260C
Parent Sample #:	357000	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	8.25	ug/kg	BDL		8.33	99	78 --- 125	11	20
1,1,1-Trichloroethane	9.42	ug/kg	BDL		8.33	113	73 --- 130	10	20
1,1,2,2-Tetrachloroethane	9.00	ug/kg	BDL		8.33	108	70 --- 124	17	20
1,1,2-Trichloroethane	9.00	ug/kg	BDL		8.33	108	78 --- 121	13	20
1,1-Dichloroethane	9.17	ug/kg	BDL		8.33	110	76 --- 125	11	20
1,1-Dichloroethene	9.58	ug/kg	BDL		8.33	115	70 --- 131	10	20
1,1-Dichloropropene	9.33	ug/kg	BDL		8.33	112	76 --- 125	13	20
1,2 Dichloroethane-d4	110	% Recovery			100	110	71 --- 136		
1,2,3-Trichlorobenzene	4.33	ug/kg	BDL		8.33	52	66 --- 130	12	20
1,2,3-Trichloropropane	10.9	ug/kg	BDL		8.33	131	73 --- 125	13	20
1,2,4-Trichlorobenzene	4.75	ug/kg	BDL		8.33	57	67 --- 129	17	20
1,2,4-Trimethylbenzene	7.58	ug/kg	BDL		8.33	91	75 --- 123	13	20
1,2-Dibromo-3-chloropropane	7.50	ug/kg	BDL		8.33	90	61 --- 132	18	20
1,2-Dibromoethane	8.42	ug/kg	BDL		8.33	101	78 --- 122	13	20
1,2-Dichlorobenzene	7.00	ug/kg	BDL		8.33	84	78 --- 121	11	20
1,2-Dichloroethane	8.75	ug/kg	BDL		8.33	105	73 --- 128	10	20
1,2-Dichloropropane	9.08	ug/kg	BDL		8.33	109	76 --- 123	12	20
1,3,5-Trimethylbenzene	7.83	ug/kg	BDL		8.33	94	73 --- 124	12	20
1,3-Dichlorobenzene	7.00	ug/kg	BDL		8.33	84	77 --- 121	11	20
1,3-Dichloropropane	8.92	ug/kg	BDL		8.33	107	77 --- 121	14	20
1,4-Dichlorobenzene	7.33	ug/kg	BDL		8.33	88	75 --- 120	16	20
1,4-Dioxane	491	ug/kg	BDL		417	118	55 --- 138	28	20
112Trichloro122trifluoroethane	20.8	ug/kg	BDL		16.7	125	66 --- 136	8	20
2,2-Dichloropropane	9.42	ug/kg	BDL		8.33	113	67 --- 133	7	20
2-Butanone	85.8	ug/kg	BDL		83.3	103	51 --- 148	9	20
2-Chlorotoluene	7.75	ug/kg	BDL		8.33	93	75 --- 122	10	20
2-Hexanone	96.5	ug/kg	BDL		83.3	116	53 --- 145	16	20
4-Chlorotoluene	7.92	ug/kg	BDL		8.33	95	72 --- 124	16	20
4-Methyl-2-pentanone	99.0	ug/kg	BDL		83.3	119	65 --- 135	14	20
Acetone	81.2	ug/kg	29.4		83.3	62	36 --- 164	12	20
Benzene	8.83	ug/kg	BDL		8.33	106	77 --- 121	8	20
Bromobenzene	8.17	ug/kg	BDL		8.33	98	78 --- 121	15	20
Bromochloromethane	9.33	ug/kg	BDL		8.33	112	78 --- 125	10	20
Bromodichloromethane	8.75	ug/kg	BDL		8.33	105	75 --- 127	11	20
Bromofluorobenzene	105	% Recovery			100	105	79 --- 119		
Bromoform	8.08	ug/kg	BDL		8.33	97	67 --- 132	12	20
Bromomethane	7.50	ug/kg	BDL		8.33	90	53 --- 143	7	20
Carbon disulfide	19.3	ug/kg	BDL		16.7	116	63 --- 132	9	20
Carbon tetrachloride	9.50	ug/kg	BDL		8.33	114	70 --- 135	9	20
Chlorobenzene	7.83	ug/kg	BDL		8.33	94	79 --- 120	9	20
Chloroethane	9.08	ug/kg	BDL		8.33	109	59 --- 139	8	20
Chloroform	9.08	ug/kg	BDL		8.33	109	78 --- 123	8	20
Chloromethane	9.83	ug/kg	BDL		8.33	118	50 --- 136	6	20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Duplicate Soil

Analytical Run #:	166498	Analysis Date:	11/13/2019	Prep Batch #:	74483	Matrix:	SOIL
CTLab #:	357001	Analysis Time:	18:50	Prep Date/Time:	11/12/2019 10:40	Method:	SW8260C
Parent Sample #:	357000	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	8.83	ug/kg	BDL		8.33	106	77 --- 123	9	20
cis-1,3-Dichloropropene	8.67	ug/kg	BDL		8.33	104	74 --- 126	12	20
d8-Toluene	100	% Recovery			100	100	85 --- 116		
Dibromochloromethane	8.08	ug/kg	BDL		8.33	97	74 --- 126	10	20
Dibromofluoromethane	105	% Recovery			100	105	78 --- 119		
Dibromomethane	8.75	ug/kg	BDL		8.33	105	78 --- 125	5	20
Dichlorodifluoromethane	10.7	ug/kg	BDL		8.33	128	29 --- 149	8	20
Ethylbenzene	8.25	ug/kg	BDL		8.33	99	76 --- 122	11	20
Hexachlorobutadiene	6.50	ug/kg	BDL		8.33	78	61 --- 135	14	20
Isopropylbenzene	8.25	ug/kg	BDL		8.33	99	68 --- 134	11	20
m & p-Xylene	16.6	ug/kg	BDL		16.7	99	77 --- 124	12	20
Methylene chloride	11.4	ug/kg	BDL		8.33	137	70 --- 128	14	20
n-Butylbenzene	7.42	ug/kg	BDL		8.33	89	70 --- 128	14	20
n-Propylbenzene	7.83	ug/kg	BDL		8.33	94	73 --- 125	14	20
Naphthalene	4.25	ug/kg	BDL		8.33	51	62 --- 129	17	20
o-Xylene	8.00	ug/kg	BDL		8.33	96	77 --- 123	13	20
p-Isopropyltoluene	7.92	ug/kg	BDL		8.33	95	73 --- 127	13	20
sec-Butylbenzene	7.83	ug/kg	BDL		8.33	94	73 --- 126	11	20
Styrene	7.67	ug/kg	BDL		8.33	92	76 --- 124	14	20
tert-Butylbenzene	8.17	ug/kg	BDL		8.33	98	73 --- 125	12	20
Tetrachloroethene	8.83	ug/kg	BDL		8.33	106	73 --- 128	7	20
Toluene	8.67	ug/kg	BDL		8.33	104	77 --- 121	9	20
trans-1,2-Dichloroethene	8.83	ug/kg	BDL		8.33	106	74 --- 125	10	20
trans-1,3-Dichloropropene	8.42	ug/kg	BDL		8.33	101	71 --- 130	10	20
Trichloroethene	9.33	ug/kg	1.04		8.33	100	77 --- 123	3	20
Trichlorofluoromethane	10.3	ug/kg	BDL		8.33	124	62 --- 140	9	20
Vinyl Acetate	80.8	ug/kg	BDL		83.3	97	50 --- 151	12	20
Vinyl chloride	9.92	ug/kg	BDL		8.33	119	56 --- 135	6	20

Matrix Spike Soil

Analytical Run #:	166498	Analysis Date:	11/13/2019	Prep Batch #:	74483	Matrix:	SOIL
CTLab #:	357000	Analysis Time:	18:21	Prep Date/Time:	11/12/2019 10:40	Method:	SW8260C
Parent Sample #:	356185	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	7.45	ug/kg	BDL		8.38	89	78 --- 125		
1,1,1-Trichloroethane	8.54	ug/kg	BDL		8.38	102	73 --- 130		
1,1,2,2-Tetrachloroethane	7.62	ug/kg	BDL		8.38	91	70 --- 124		
1,1,2-Trichloroethane	7.96	ug/kg	BDL		8.38	95	78 --- 121		
1,1-Dichloroethane	8.29	ug/kg	BDL		8.38	99	76 --- 125		
1,1-Dichloroethene	8.71	ug/kg	BDL		8.38	104	70 --- 131		
1,1-Dichloropropene	8.21	ug/kg	BDL		8.38	98	76 --- 125		
1,2 Dichloroethane-d4	115	% Recovery			100	115	71 --- 136		
1,2,3-Trichlorobenzene	3.85	ug/kg	BDL		8.38	46	66 --- 130		
1,2,3-Trichloropropane	9.63	ug/kg	BDL		8.38	115	73 --- 125		
1,2,4-Trichlorobenzene	4.02	ug/kg	BDL		8.38	48	67 --- 129		
1,2,4-Trimethylbenzene	6.70	ug/kg	BDL		8.38	80	75 --- 123		
1,2-Dibromo-3-chloropropane	6.28	ug/kg	BDL		8.38	75	61 --- 132		
1,2-Dibromoethane	7.45	ug/kg	BDL		8.38	89	78 --- 122		
1,2-Dichlorobenzene	6.28	ug/kg	BDL		8.38	75	78 --- 121		
1,2-Dichloroethane	7.96	ug/kg	BDL		8.38	95	73 --- 128		
1,2-Dichloropropane	8.12	ug/kg	BDL		8.38	97	76 --- 123		
1,3,5-Trimethylbenzene	6.95	ug/kg	BDL		8.38	83	73 --- 124		
1,3-Dichlorobenzene	6.28	ug/kg	BDL		8.38	75	77 --- 121		
1,3-Dichloropropane	7.79	ug/kg	BDL		8.38	93	77 --- 121		
1,4-Dichlorobenzene	6.28	ug/kg	BDL		8.38	75	75 --- 120		
1,4-Dioxane	374	ug/kg	BDL		419	89	55 --- 138		
112Trichloro122trifluoroethane	19.3	ug/kg	BDL		16.8	115	66 --- 136		
2,2-Dichloropropane	8.79	ug/kg	BDL		8.38	105	67 --- 133		
2-Butanone	78.8	ug/kg	BDL		83.8	94	51 --- 148		
2-Chlorotoluene	7.04	ug/kg	BDL		8.38	84	75 --- 122		
2-Hexanone	82.7	ug/kg	BDL		83.8	99	53 --- 145		
4-Chlorotoluene	6.78	ug/kg	BDL		8.38	81	72 --- 124		
4-Methyl-2-pentanone	86.3	ug/kg	BDL		83.8	103	65 --- 135		
Acetone	72.3	ug/kg	29.4		83.8	51	36 --- 164		
Benzene	8.21	ug/kg	BDL		8.38	98	77 --- 121		
Bromobenzene	7.04	ug/kg	BDL		8.38	84	78 --- 121		
Bromochloromethane	8.46	ug/kg	BDL		8.38	101	78 --- 125		
Bromodichloromethane	7.87	ug/kg	BDL		8.38	94	75 --- 127		
Bromofluorobenzene	100	% Recovery			100	100	79 --- 119		
Bromoform	7.20	ug/kg	BDL		8.38	86	67 --- 132		
Bromomethane	7.04	ug/kg	BDL		8.38	84	53 --- 143		
Carbon disulfide	17.7	ug/kg	BDL		16.8	105	63 --- 132		
Carbon tetrachloride	8.71	ug/kg	BDL		8.38	104	70 --- 135		
Chlorobenzene	7.20	ug/kg	BDL		8.38	86	79 --- 120		
Chloroethane	8.46	ug/kg	BDL		8.38	101	59 --- 139		
Chloroform	8.46	ug/kg	BDL		8.38	101	78 --- 123		
Chloromethane	9.30	ug/kg	BDL		8.38	111	50 --- 136		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Soil

Analytical Run #:	166498	Analysis Date:	11/13/2019	Prep Batch #:	74483	Matrix:	SOIL
CTLab #:	357000	Analysis Time:	18:21	Prep Date/Time:	11/12/2019 10:40	Method:	SW8260C
Parent Sample #:	356185	Analyst:	RLD	Prep Analyst:	RLD		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	8.12	ug/kg	BDL		8.38	97	77 --- 123		
cis-1,3-Dichloropropene	7.71	ug/kg	BDL		8.38	92	74 --- 126		
d8-Toluene	105	% Recovery			100	105	85 --- 116		
Dibromochloromethane	7.37	ug/kg	BDL		8.38	88	74 --- 126		
Dibromofluoromethane	110	% Recovery			100	110	78 --- 119		
Dibromomethane	8.38	ug/kg	BDL		8.38	100	78 --- 125		
Dichlorodifluoromethane	9.88	ug/kg	BDL		8.38	118	29 --- 149		
Ethylbenzene	7.45	ug/kg	BDL		8.38	89	76 --- 122		
Hexachlorobutadiene	5.70	ug/kg	BDL		8.38	68	61 --- 135		
Isopropylbenzene	7.45	ug/kg	BDL		8.38	89	68 --- 134		
m & p-Xylene	14.7	ug/kg	BDL		16.8	88	77 --- 124		
Methylene chloride	9.97	ug/kg	BDL		8.38	119	70 --- 128		
n-Butylbenzene	6.45	ug/kg	BDL		8.38	77	70 --- 128		
n-Propylbenzene	6.87	ug/kg	BDL		8.38	82	73 --- 125		
Naphthalene	3.60	ug/kg	BDL		8.38	43	62 --- 129		
o-Xylene	7.04	ug/kg	BDL		8.38	84	77 --- 123		
p-Isopropyltoluene	6.95	ug/kg	BDL		8.38	83	73 --- 127		
sec-Butylbenzene	7.04	ug/kg	BDL		8.38	84	73 --- 126		
Styrene	6.70	ug/kg	BDL		8.38	80	76 --- 124		
tert-Butylbenzene	7.29	ug/kg	BDL		8.38	87	73 --- 125		
Tetrachloroethene	8.29	ug/kg	BDL		8.38	99	73 --- 128		
Toluene	7.96	ug/kg	BDL		8.38	95	77 --- 121		
trans-1,2-Dichloroethene	8.04	ug/kg	BDL		8.38	96	74 --- 125		
trans-1,3-Dichloropropene	7.62	ug/kg	BDL		8.38	91	71 --- 130		
Trichloroethene	9.63	ug/kg	1.04		8.38	103	77 --- 123		
Trichlorofluoromethane	9.38	ug/kg	BDL		8.38	112	62 --- 140		
Vinyl Acetate	72.0	ug/kg	BDL		83.8	86	50 --- 151		
Vinyl chloride	9.38	ug/kg	BDL		8.38	112	56 --- 135		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Lab Control Spike Water

Analytical Run #:	166500	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	358372	Analysis Time:	13:15	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	9.89	ug/L			10.0	99	78 --- 124		20
1,1,1-Trichloroethane	10.2	ug/L			10.0	102	74 --- 131		20
1,1,2,2-Tetrachloroethane	9.77	ug/L			10.0	98	71 --- 121		20
1,1,2-Trichloroethane	9.56	ug/L			10.0	96	80 --- 119		20
1,1-Dichloroethane	9.85	ug/L			10.0	98	77 --- 125		20
1,1-Dichloroethene	9.97	ug/L			10.0	100	71 --- 131		20
1,1-Dichloropropene	10.3	ug/L			10.0	103	79 --- 125		20
1,2,3-Trichlorobenzene	10.8	ug/L			10.0	108	69 --- 129		20
1,2,3-Trichloropropane	9.96	ug/L			10.0	100	73 --- 122		20
1,2,4-Trichlorobenzene	11.1	ug/L			10.0	111	69 --- 130		20
1,2,4-Trimethylbenzene	11.0	ug/L			10.0	110	76 --- 124		20
1,2-Dibromo-3-chloropropane	10.3	ug/L			10.0	103	62 --- 128		20
1,2-Dibromoethane	10.2	ug/L			10.0	102	77 --- 121		20
1,2-Dichlorobenzene	10.4	ug/L			10.0	104	80 --- 119		20
1,2-Dichloroethane	9.74	ug/L			10.0	97	73 --- 128		20
1,2-Dichloropropane	9.79	ug/L			10.0	98	78 --- 122		20
1,3,5-Trimethylbenzene	11.2	ug/L			10.0	112	75 --- 124		20
1,3-Dichlorobenzene	10.3	ug/L			10.0	103	80 --- 119		20
1,3-Dichloropropane	9.72	ug/L			10.0	97	80 --- 119		20
1,4-Dichlorobenzene	10.2	ug/L			10.0	102	79 --- 118		20
112Trichloro122trifluoroethane	22.2	ug/L			20.0	111	70 --- 136		20
2,2-Dichloropropane	11.3	ug/L			10.0	113	60 --- 139		20
2-Butanone	89.2	ug/L			100	89	56 --- 143		20
2-Chlorotoluene	10.7	ug/L			10.0	107	79 --- 122		20
2-Hexanone	97.4	ug/L			100	97	57 --- 139		20
4-Chlorotoluene	10.6	ug/L			10.0	106	78 --- 122		20
4-Methyl-2-pentanone	99.0	ug/L			100	99	67 --- 130		20
Acetone	88.5	ug/L			100	88	39 --- 160		20
Benzene	10.2	ug/L			10.0	102	79 --- 120		20
Bromobenzene	9.76	ug/L			10.0	98	80 --- 120		20
Bromochloromethane	9.07	ug/L			10.0	91	78 --- 123		20
Bromodichloromethane	9.69	ug/L			10.0	97	79 --- 125		20
Bromoform	9.28	ug/L			10.0	93	66 --- 130		20
Bromomethane	9.76	ug/L			10.0	98	53 --- 141		20
Carbon disulfide	21.6	ug/L			20.0	108	64 --- 133		20
Carbon tetrachloride	10.8	ug/L			10.0	108	72 --- 136		20
Chlorobenzene	10.1	ug/L			10.0	101	82 --- 118		20
Chloroethane	9.68	ug/L			10.0	97	60 --- 138		20
Chloroform	9.53	ug/L			10.0	95	79 --- 124		20
Chloromethane	9.58	ug/L			10.0	96	50 --- 139		20
cis-1,2-Dichloroethene	9.68	ug/L			10.0	97	78 --- 123		20
cis-1,3-Dichloropropene	10.4	ug/L			10.0	104	75 --- 124		20
Dibromochloromethane	9.65	ug/L			10.0	96	74 --- 126		20

Lab Control Spike Water

Analytical Run #:	166500	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	358372	Analysis Time:	13:15	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Dibromomethane	9.98	ug/L			10.0	100	79 --- 123		20
Dichlorodifluoromethane	11.0	ug/L			10.0	110	32 --- 152		20
Ethylbenzene	10.7	ug/L			10.0	107	79 --- 121		20
Hexachlorobutadiene	11.1	ug/L			10.0	111	66 --- 134		20
Isopropylbenzene	11.3	ug/L			10.0	113	72 --- 131		20
m & p-Xylene	21.6	ug/L			20.0	108	80 --- 121		20
Methylene chloride	9.27	ug/L			10.0	93	74 --- 124		20
n-Butylbenzene	12.0	ug/L			10.0	120	75 --- 128		20
n-Propylbenzene	11.5	ug/L			10.0	115	76 --- 126		20
Naphthalene	10.9	ug/L			10.0	109	61 --- 128		20
o-Xylene	10.2	ug/L			10.0	102	78 --- 122		20
p-Isopropyltoluene	11.9	ug/L			10.0	119	77 --- 127		20
sec-Butylbenzene	12.1	ug/L			10.0	121	77 --- 126		20
Styrene	10.5	ug/L			10.0	105	78 --- 123		20
tert-Butylbenzene	11.4	ug/L			10.0	114	78 --- 124		20
Tetrachloroethene	10.3	ug/L			10.0	103	74 --- 129		20
Toluene	10.2	ug/L			10.0	102	80 --- 121		20
trans-1,2-Dichloroethene	10.0	ug/L			10.0	100	75 --- 124		20
trans-1,3-Dichloropropene	10.4	ug/L			10.0	104	73 --- 127		20
Trichloroethene	9.77	ug/L			10.0	98	79 --- 123		20
Trichlorofluoromethane	10.7	ug/L			10.0	107	65 --- 141		20
Vinyl Acetate	113	ug/L			100	113	54 --- 146		20
Vinyl chloride	10.1	ug/L			10.0	101	58 --- 137		20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Method Blank Water

Analytical Run #:	166500	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	358374	Analysis Time:	14:14	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.4	ug/L		U	0		1.0		
1,1,1-Trichloroethane	0.29	ug/L		U	0		0.50		
1,1,2,2-Tetrachloroethane	0.3	ug/L		U	0		0.5		
1,1,2-Trichloroethane	0.30	ug/L		U	0		0.50		
1,1-Dichloroethane	0.3	ug/L		U	0		0.5		
1,1-Dichloroethene	0.4	ug/L		U	0		1.0		
1,1-Dichloropropene	0.3	ug/L		U	0		0.5		
1,2,3-Trichlorobenzene	0.23	ug/L		U	0		0.50		
1,2,3-Trichloropropane	0.3	ug/L		U	0		0.5		
1,2,4-Trichlorobenzene	0.28	ug/L		U	0		0.50		
1,2,4-Trimethylbenzene	0.29	ug/L		U	0		0.50		
1,2-Dibromo-3-chloropropane	0.25	ug/L		U	0		0.50		
1,2-Dibromoethane	0.3	ug/L		U	0		0.5		
1,2-Dichlorobenzene	0.3	ug/L		U	0		0.5		
1,2-Dichloroethane	0.24	ug/L		U	0		0.50		
1,2-Dichloropropane	0.18	ug/L		U	0		0.50		
1,3,5-Trimethylbenzene	0.27	ug/L		U	0		0.50		
1,3-Dichlorobenzene	0.26	ug/L		U	0		0.50		
1,3-Dichloropropane	0.17	ug/L		U	0		0.30		
1,4-Dichlorobenzene	0.3	ug/L		U	0		0.5		
112Trichloro122trifluoroethane	0.7	ug/L		U	0		2.0		
2,2-Dichloropropane	0.3	ug/L		U	0		0.5		
2-Butanone	2.6	ug/L		U	0		5.0		
2-Chlorotoluene	0.25	ug/L		U	0		0.50		
2-Hexanone	3	ug/L		U	0		5		
4-Chlorotoluene	0.3	ug/L		U	0		0.5		
4-Methyl-2-pentanone	2.2	ug/L		U	0		5.0		
Acetone	4	ug/L		U	0		10		
Benzene	0.4	ug/L		U	0		1.0		
Bromobenzene	0.4	ug/L		U	0		1.0		
Bromochloromethane	0.3	ug/L		U	0		0.5		
Bromodichloromethane	0.29	ug/L		U	0		0.50		
Bromoform	0.4	ug/L		U	0		1.0		
Bromomethane	0.9	ug/L		U	0		2.0		
Carbon disulfide	0.6	ug/L		U	0		2.0		
Carbon tetrachloride	0.3	ug/L		U	0		0.5		
Chlorobenzene	0.3	ug/L		U	0		0.5		
Chloroethane	0.5	ug/L		U	0		1.0		
Chloroform	0.3	ug/L		U	0		0.5		
Chloromethane	0.6	ug/L		U	0		1.0		
cis-1,2-Dichloroethene	0.3	ug/L		U	0		0.5		
cis-1,3-Dichloropropene	0.16	ug/L		U	0		0.30		
Dibromochloromethane	0.3	ug/L		U	0		0.5		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Method Blank Water

Analytical Run #:	166500	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	358374	Analysis Time:	14:14	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Dibromomethane	0.22	ug/L		U	0		0.50		
Dichlorodifluoromethane	0.4	ug/L		U	0		1.0		
Ethylbenzene	0.3	ug/L		U	0		0.5		
Hexachlorobutadiene	0.4	ug/L		U	0		1.0		
Isopropylbenzene	0.3	ug/L		U	0		0.5		
m & p-Xylene	0.7	ug/L		U	0		1.0		
Methylene chloride	0.4	ug/L		U	0		1.0		
n-Butylbenzene	0.29	ug/L		U	0		0.50		
n-Propylbenzene	0.3	ug/L		U	0		0.5		
Naphthalene	0.3	ug/L		U	0		0.5		
o-Xylene	0.26	ug/L		U	0		0.50		
p-Isopropyltoluene	0.369	ug/L			0		0.5		
sec-Butylbenzene	0.4	ug/L		U	0		0.5		
Styrene	0.29	ug/L		U	0		0.50		
tert-Butylbenzene	0.4	ug/L		U	0		1.0		
Tetrachloroethene	0.27	ug/L		U	0		0.50		
Toluene	0.21	ug/L		U	0		0.50		
trans-1,2-Dichloroethene	0.3	ug/L		U	0		0.50		
trans-1,3-Dichloropropene	0.23	ug/L		U	0		0.50		
Trichloroethene	0.3	ug/L		U	0		0.5		
Trichlorofluoromethane	0.4	ug/L		U	0		1.0		
Vinyl Acetate	5	ug/L		U	0		10		
Vinyl chloride	0.14	ug/L		U	0		0.30		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Duplicate Water

Analytical Run #:	166500	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	358376	Analysis Time:	23:42	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	358375	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.2	ug/L	BDL		10.0	102	78 --- 124	1	20
1,1,1-Trichloroethane	11.4	ug/L	BDL		10.0	114	74 --- 131	6	20
1,1,2,2-Tetrachloroethane	10.9	ug/L	BDL		10.0	109	71 --- 121	3	20
1,1,2-Trichloroethane	10.4	ug/L	BDL		10.0	104	80 --- 119	1	20
1,1-Dichloroethane	10.5	ug/L	BDL		10.0	105	77 --- 125	2	20
1,1-Dichloroethene	11.4	ug/L	BDL		10.0	114	71 --- 131	6	20
1,1-Dichloropropene	11.5	ug/L	BDL		10.0	115	79 --- 125	6	20
1,2 Dichloroethane-d4	103	% Recovery			100	103	81 --- 118		
1,2,3-Trichlorobenzene	11.3	ug/L	BDL		10.0	113	69 --- 129	1	20
1,2,3-Trichloropropane	10.9	ug/L	BDL		10.0	109	73 --- 122	7	20
1,2,4-Trichlorobenzene	11.6	ug/L	BDL		10.0	116	69 --- 130	4	20
1,2,4-Trimethylbenzene	11.6	ug/L	BDL		10.0	116	76 --- 124	1	20
1,2-Dibromo-3-chloropropane	11.3	ug/L	BDL		10.0	113	62 --- 128	4	20
1,2-Dibromoethane	11.2	ug/L	BDL		10.0	112	77 --- 121	3	20
1,2-Dichlorobenzene	10.8	ug/L	BDL		10.0	108	80 --- 119	3	20
1,2-Dichloroethane	10.8	ug/L	BDL		10.0	108	73 --- 128	7	20
1,2-Dichloropropane	10.6	ug/L	BDL		10.0	106	78 --- 122	3	20
1,3,5-Trimethylbenzene	12.0	ug/L	BDL		10.0	120	75 --- 124	4	20
1,3-Dichlorobenzene	10.9	ug/L	BDL		10.0	109	80 --- 119	3	20
1,3-Dichloropropane	10.3	ug/L	BDL		10.0	103	80 --- 119	1	20
1,4-Dichlorobenzene	10.8	ug/L	BDL		10.0	108	79 --- 118	6	20
112Trichloro122trifluoroethane	24.6	ug/L	BDL		20.0	123	70 --- 136	1	20
2,2-Dichloropropane	9.93	ug/L	BDL		10.0	99	60 --- 139	1	20
2-Butanone	124	ug/L	BDL		100	124	56 --- 143	0	20
2-Chlorotoluene	11.3	ug/L	BDL		10.0	113	79 --- 122	3	20
2-Hexanone	128	ug/L	BDL		100	128	57 --- 139	1	20
4-Chlorotoluene	11.6	ug/L	BDL		10.0	116	78 --- 122	5	20
4-Methyl-2-pentanone	123	ug/L	BDL		100	123	67 --- 130	2	20
Acetone	129	ug/L	BDL		100	129	39 --- 160	5	20
Benzene	11.3	ug/L	BDL		10.0	113	79 --- 120	5	20
Bromobenzene	10.8	ug/L	BDL		10.0	108	80 --- 120	3	20
Bromochloromethane	10.1	ug/L	BDL		10.0	101	78 --- 123	2	20
Bromodichloromethane	10.7	ug/L	BDL		10.0	107	79 --- 125	5	20
Bromofluorobenzene	101	% Recovery			100	101	85 --- 114		
Bromoform	9.58	ug/L	BDL		10.0	96	66 --- 130	2	20
Bromomethane	12.0	ug/L	BDL		10.0	120	53 --- 141	13	20
Carbon disulfide	24.3	ug/L	BDL		20.0	122	64 --- 133	5	20
Carbon tetrachloride	11.5	ug/L	BDL		10.0	115	72 --- 136	4	20
Chlorobenzene	10.7	ug/L	BDL		10.0	107	82 --- 118	1	20
Chloroethane	11.3	ug/L	BDL		10.0	113	60 --- 138	10	20
Chloroform	10.4	ug/L	BDL		10.0	104	79 --- 124	3	20
Chloromethane	11.0	ug/L	BDL		10.0	110	50 --- 139	7	20
cis-1,2-Dichloroethene	11.7	ug/L	0.99		10.0	107	78 --- 123	1	20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Duplicate Water

Analytical Run #:	166500	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	358376	Analysis Time:	23:42	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	358375	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	10.3	ug/L	BDL		10.0	103	75 --- 124	4	20
d8-Toluene	100	% Recovery			100	100	89 --- 112		
Dibromochloromethane	10.3	ug/L	BDL		10.0	103	74 --- 126	4	20
Dibromofluoromethane	102	% Recovery			100	102	80 --- 119		
Dibromomethane	10.4	ug/L	BDL		10.0	104	79 --- 123	0	20
Dichlorodifluoromethane	12.9	ug/L	BDL		10.0	129	32 --- 152	6	20
Ethylbenzene	11.8	ug/L	BDL		10.0	118	79 --- 121	2	20
Hexachlorobutadiene	12.0	ug/L	BDL		10.0	120	66 --- 134	8	20
Isopropylbenzene	12.2	ug/L	BDL		10.0	122	72 --- 131	3	20
m & p-Xylene	23.8	ug/L	BDL		20.0	119	80 --- 121	4	20
Methylene chloride	10.3	ug/L	BDL		10.0	103	74 --- 124	5	20
n-Butylbenzene	12.9	ug/L	BDL		10.0	129	75 --- 128	4	20
n-Propylbenzene	12.3	ug/L	BDL		10.0	123	76 --- 126	1	20
Naphthalene	12.5	ug/L	BDL		10.0	125	61 --- 128	3	20
o-Xylene	11.4	ug/L	BDL		10.0	114	78 --- 122	5	20
p-Isopropyltoluene	12.5	ug/L	BDL		10.0	125	77 --- 127	3	20
sec-Butylbenzene	13.0	ug/L	BDL		10.0	130	77 --- 126	2	20
Styrene	11.2	ug/L	BDL		10.0	112	78 --- 123	4	20
tert-Butylbenzene	12.3	ug/L	BDL		10.0	123	78 --- 124	5	20
Tetrachloroethene	11.4	ug/L	BDL		10.0	114	74 --- 129	4	20
Toluene	11.8	ug/L	0.71		10.0	111	80 --- 121	3	20
trans-1,2-Dichloroethene	10.7	ug/L	BDL		10.0	107	75 --- 124	0	20
trans-1,3-Dichloropropene	10.2	ug/L	BDL		10.0	102	73 --- 127	5	20
Trichloroethene	35.1	ug/L	29		10.0	61	79 --- 123	23	20
Trichlorofluoromethane	12.3	ug/L	BDL		10.0	123	65 --- 141	6	20
Vinyl Acetate	117	ug/L	BDL		100	117	54 --- 146	7	20
Vinyl chloride	12.1	ug/L	BDL		10.0	121	58 --- 137	2	20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Water

Analytical Run #:	166500	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	358375	Analysis Time:	23:13	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	356207	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.2	ug/L	BDL		10.0	102	78 --- 124		20
1,1,1-Trichloroethane	10.7	ug/L	BDL		10.0	107	74 --- 131		20
1,1,2,2-Tetrachloroethane	10.7	ug/L	BDL		10.0	107	71 --- 121		20
1,1,2-Trichloroethane	10.3	ug/L	BDL		10.0	103	80 --- 119		20
1,1-Dichloroethane	10.3	ug/L	BDL		10.0	103	77 --- 125		20
1,1-Dichloroethene	10.8	ug/L	BDL		10.0	108	71 --- 131		20
1,1-Dichloropropene	10.8	ug/L	BDL		10.0	108	79 --- 125		20
1,2 Dichloroethane-d4	108	% Recovery			100	108	81 --- 118		
1,2,3-Trichlorobenzene	11.2	ug/L	BDL		10.0	112	69 --- 129		20
1,2,3-Trichloropropane	10.2	ug/L	BDL		10.0	102	73 --- 122		20
1,2,4-Trichlorobenzene	11.2	ug/L	BDL		10.0	112	69 --- 130		20
1,2,4-Trimethylbenzene	11.5	ug/L	BDL		10.0	115	76 --- 124		20
1,2-Dibromo-3-chloropropane	10.9	ug/L	BDL		10.0	109	62 --- 128		20
1,2-Dibromoethane	10.8	ug/L	BDL		10.0	108	77 --- 121		20
1,2-Dichlorobenzene	10.4	ug/L	BDL		10.0	104	80 --- 119		20
1,2-Dichloroethane	10.1	ug/L	BDL		10.0	101	73 --- 128		20
1,2-Dichloropropane	10.3	ug/L	BDL		10.0	103	78 --- 122		20
1,3,5-Trimethylbenzene	11.6	ug/L	BDL		10.0	116	75 --- 124		20
1,3-Dichlorobenzene	10.6	ug/L	BDL		10.0	106	80 --- 119		20
1,3-Dichloropropane	10.4	ug/L	BDL		10.0	104	80 --- 119		20
1,4-Dichlorobenzene	10.2	ug/L	BDL		10.0	102	79 --- 118		20
112Trichloro122trifluoroethane	24.5	ug/L	BDL		20.0	122	70 --- 136		20
2,2-Dichloropropane	9.88	ug/L	BDL		10.0	99	60 --- 139		20
2-Butanone	125	ug/L	BDL		100	125	56 --- 143		20
2-Chlorotoluene	11.0	ug/L	BDL		10.0	110	79 --- 122		20
2-Hexanone	127	ug/L	BDL		100	127	57 --- 139		20
4-Chlorotoluene	11.0	ug/L	BDL		10.0	110	78 --- 122		20
4-Methyl-2-pentanone	120	ug/L	BDL		100	120	67 --- 130		20
Acetone	123	ug/L	BDL		100	123	39 --- 160		20
Benzene	10.7	ug/L	BDL		10.0	107	79 --- 120		20
Bromobenzene	10.5	ug/L	BDL		10.0	105	80 --- 120		20
Bromochloromethane	9.88	ug/L	BDL		10.0	99	78 --- 123		20
Bromodichloromethane	10.2	ug/L	BDL		10.0	102	79 --- 125		20
Bromofluorobenzene	100	% Recovery			100	100	85 --- 114		
Bromoform	9.75	ug/L	BDL		10.0	98	66 --- 130		20
Bromomethane	10.6	ug/L	BDL		10.0	106	53 --- 141		20
Carbon disulfide	23.1	ug/L	BDL		20.0	116	64 --- 133		20
Carbon tetrachloride	11.1	ug/L	BDL		10.0	111	72 --- 136		20
Chlorobenzene	10.5	ug/L	BDL		10.0	105	82 --- 118		20
Chloroethane	10.2	ug/L	BDL		10.0	102	60 --- 138		20
Chloroform	10.1	ug/L	BDL		10.0	101	79 --- 124		20
Chloromethane	10.3	ug/L	BDL		10.0	103	50 --- 139		20
cis-1,2-Dichloroethene	11.6	ug/L	0.99		10.0	106	78 --- 123		20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Water

Analytical Run #:	166500	Analysis Date:	11/14/2019	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	358375	Analysis Time:	23:13	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	356207	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	9.98	ug/L	BDL		10.0	100	75 --- 124		20
d8-Toluene	99.0	% Recovery			100	99.0	89 --- 112		
Dibromochloromethane	9.86	ug/L	BDL		10.0	99	74 --- 126		20
Dibromofluoromethane	101	% Recovery			100	101	80 --- 119		
Dibromomethane	10.4	ug/L	BDL		10.0	104	79 --- 123		20
Dichlorodifluoromethane	12.2	ug/L	BDL		10.0	122	32 --- 152		20
Ethylbenzene	11.6	ug/L	BDL		10.0	116	79 --- 121		20
Hexachlorobutadiene	11.1	ug/L	BDL		10.0	111	66 --- 134		20
Isopropylbenzene	11.8	ug/L	BDL		10.0	118	72 --- 131		20
m & p-Xylene	22.9	ug/L	BDL		20.0	114	80 --- 121		20
Methylene chloride	9.78	ug/L	BDL		10.0	98	74 --- 124		20
n-Butylbenzene	12.3	ug/L	BDL		10.0	123	75 --- 128		20
n-Propylbenzene	12.2	ug/L	BDL		10.0	122	76 --- 126		20
Naphthalene	12.2	ug/L	BDL		10.0	122	61 --- 128		20
o-Xylene	10.8	ug/L	BDL		10.0	108	78 --- 122		20
p-Isopropyltoluene	12.1	ug/L	BDL		10.0	121	77 --- 127		20
sec-Butylbenzene	12.8	ug/L	BDL		10.0	128	77 --- 126		20
Styrene	10.8	ug/L	BDL		10.0	108	78 --- 123		20
tert-Butylbenzene	11.8	ug/L	BDL		10.0	118	78 --- 124		20
Tetrachloroethene	10.9	ug/L	BDL		10.0	109	74 --- 129		20
Toluene	11.5	ug/L	0.71		10.0	108	80 --- 121		20
trans-1,2-Dichloroethene	10.7	ug/L	BDL		10.0	107	75 --- 124		20
trans-1,3-Dichloropropene	9.71	ug/L	BDL		10.0	97	73 --- 127		20
Trichloroethene	44.0	ug/L	29		10.0	150	79 --- 123		20
Trichlorofluoromethane	11.6	ug/L	BDL		10.0	116	65 --- 141		20
Vinyl Acetate	109	ug/L	BDL		100	109	54 --- 146		20
Vinyl chloride	11.8	ug/L	BDL		10.0	118	58 --- 137		20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Lab Control Spike Water

Analytical Run #:	166501	Analysis Date:	11/15/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	358448	Analysis Time:	09:43	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	9.82	ug/L			10.0	98	78 --- 124		20
1,1,1-Trichloroethane	10.7	ug/L			10.0	107	74 --- 131		20
1,1,2,2-Tetrachloroethane	9.76	ug/L			10.0	98	71 --- 121		20
1,1,2-Trichloroethane	9.64	ug/L			10.0	96	80 --- 119		20
1,1-Dichloroethane	10.0	ug/L			10.0	100	77 --- 125		20
1,1-Dichloroethene	10.9	ug/L			10.0	109	71 --- 131		20
1,1-Dichloropropene	10.6	ug/L			10.0	106	79 --- 125		20
1,2,3-Trichlorobenzene	10.5	ug/L			10.0	105	69 --- 129		20
1,2,3-Trichloropropane	9.64	ug/L			10.0	96	73 --- 122		20
1,2,4-Trichlorobenzene	11.1	ug/L			10.0	111	69 --- 130		20
1,2,4-Trimethylbenzene	11.3	ug/L			10.0	113	76 --- 124		20
1,2-Dibromo-3-chloropropane	9.12	ug/L			10.0	91	62 --- 128		20
1,2-Dibromoethane	10.8	ug/L			10.0	108	77 --- 121		20
1,2-Dichlorobenzene	10.3	ug/L			10.0	103	80 --- 119		20
1,2-Dichloroethane	9.84	ug/L			10.0	98	73 --- 128		20
1,2-Dichloropropane	9.68	ug/L			10.0	97	78 --- 122		20
1,3,5-Trimethylbenzene	11.4	ug/L			10.0	114	75 --- 124		20
1,3-Dichlorobenzene	10.5	ug/L			10.0	105	80 --- 119		20
1,3-Dichloropropane	10.2	ug/L			10.0	102	80 --- 119		20
1,4-Dichlorobenzene	10.4	ug/L			10.0	104	79 --- 118		20
112Trichloro122trifluoroethane	23.7	ug/L			20.0	118	70 --- 136		20
2,2-Dichloropropane	11.0	ug/L			10.0	110	60 --- 139		20
2-Butanone	101	ug/L			100	101	56 --- 143		20
2-Chlorotoluene	10.6	ug/L			10.0	106	79 --- 122		20
2-Hexanone	99.4	ug/L			100	99	57 --- 139		20
4-Chlorotoluene	10.9	ug/L			10.0	109	78 --- 122		20
4-Methyl-2-pentanone	100	ug/L			100	100	67 --- 130		20
Acetone	98.9	ug/L			100	99	39 --- 160		20
Benzene	10.4	ug/L			10.0	104	79 --- 120		20
Bromobenzene	9.99	ug/L			10.0	100	80 --- 120		20
Bromochloromethane	8.91	ug/L			10.0	89	78 --- 123		20
Bromodichloromethane	9.85	ug/L			10.0	98	79 --- 125		20
Bromoform	9.63	ug/L			10.0	96	66 --- 130		20
Bromomethane	9.76	ug/L			10.0	98	53 --- 141		20
Carbon disulfide	22.4	ug/L			20.0	112	64 --- 133		20
Carbon tetrachloride	10.8	ug/L			10.0	108	72 --- 136		20
Chlorobenzene	10.2	ug/L			10.0	102	82 --- 118		20
Chloroethane	9.99	ug/L			10.0	100	60 --- 138		20
Chloroform	9.70	ug/L			10.0	97	79 --- 124		20
Chloromethane	10.3	ug/L			10.0	103	50 --- 139		20
cis-1,2-Dichloroethene	10.2	ug/L			10.0	102	78 --- 123		20
cis-1,3-Dichloropropene	10.4	ug/L			10.0	104	75 --- 124		20
Dibromochloromethane	9.94	ug/L			10.0	99	74 --- 126		20

Lab Control Spike Water

Analytical Run #:	166501	Analysis Date:	11/15/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	358448	Analysis Time:	09:43	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Dibromomethane	10.2	ug/L			10.0	102	79 --- 123		20
Dichlorodifluoromethane	11.1	ug/L			10.0	111	32 --- 152		20
Ethylbenzene	11.0	ug/L			10.0	110	79 --- 121		20
Hexachlorobutadiene	11.4	ug/L			10.0	114	66 --- 134		20
Isopropylbenzene	11.4	ug/L			10.0	114	72 --- 131		20
m & p-Xylene	21.9	ug/L			20.0	110	80 --- 121		20
Methylene chloride	9.42	ug/L			10.0	94	74 --- 124		20
n-Butylbenzene	12.2	ug/L			10.0	122	75 --- 128		20
n-Propylbenzene	11.8	ug/L			10.0	118	76 --- 126		20
Naphthalene	10.5	ug/L			10.0	105	61 --- 128		20
o-Xylene	10.2	ug/L			10.0	102	78 --- 122		20
p-Isopropyltoluene	12.0	ug/L			10.0	120	77 --- 127		20
sec-Butylbenzene	12.4	ug/L			10.0	124	77 --- 126		20
Styrene	10.8	ug/L			10.0	108	78 --- 123		20
tert-Butylbenzene	11.3	ug/L			10.0	113	78 --- 124		20
Tetrachloroethene	10.5	ug/L			10.0	105	74 --- 129		20
Toluene	10.4	ug/L			10.0	104	80 --- 121		20
trans-1,2-Dichloroethene	10.2	ug/L			10.0	102	75 --- 124		20
trans-1,3-Dichloropropene	10.2	ug/L			10.0	102	73 --- 127		20
Trichloroethene	9.89	ug/L			10.0	99	79 --- 123		20
Trichlorofluoromethane	11.3	ug/L			10.0	113	65 --- 141		20
Vinyl Acetate	113	ug/L			100	113	54 --- 146		20
Vinyl chloride	10.9	ug/L			10.0	109	58 --- 137		20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Method Blank Water

Analytical Run #:	166501	Analysis Date:	11/15/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	358544	Analysis Time:	10:42	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.4	ug/L		U	0		1.0		
1,1,1-Trichloroethane	0.29	ug/L		U	0		0.50		
1,1,2,2-Tetrachloroethane	0.3	ug/L		U	0		0.5		
1,1,2-Trichloroethane	0.30	ug/L		U	0		0.50		
1,1-Dichloroethane	0.3	ug/L		U	0		0.5		
1,1-Dichloroethene	0.4	ug/L		U	0		1.0		
1,1-Dichloropropene	0.3	ug/L		U	0		0.5		
1,2,3-Trichlorobenzene	0.23	ug/L		U	0		0.50		
1,2,3-Trichloropropane	0.3	ug/L		U	0		0.5		
1,2,4-Trichlorobenzene	0.28	ug/L		U	0		0.50		
1,2,4-Trimethylbenzene	0.29	ug/L		U	0		0.50		
1,2-Dibromo-3-chloropropane	0.25	ug/L		U	0		0.50		
1,2-Dibromoethane	0.3	ug/L		U	0		0.5		
1,2-Dichlorobenzene	0.3	ug/L		U	0		0.5		
1,2-Dichloroethane	0.24	ug/L		U	0		0.50		
1,2-Dichloropropane	0.18	ug/L		U	0		0.50		
1,3,5-Trimethylbenzene	0.27	ug/L		U	0		0.50		
1,3-Dichlorobenzene	0.26	ug/L		U	0		0.50		
1,3-Dichloropropane	0.17	ug/L		U	0		0.30		
1,4-Dichlorobenzene	0.3	ug/L		U	0		0.5		
112Trichloro122trifluoroethane	0.7	ug/L		U	0		2.0		
2,2-Dichloropropane	0.3	ug/L		U	0		0.5		
2-Butanone	2.6	ug/L		U	0		5.0		
2-Chlorotoluene	0.25	ug/L		U	0		0.50		
2-Hexanone	3	ug/L		U	0		5		
4-Chlorotoluene	0.3	ug/L		U	0		0.5		
4-Methyl-2-pentanone	2.2	ug/L		U	0		5.0		
Acetone	4	ug/L		U	0		10		
Benzene	0.4	ug/L		U	0		1.0		
Bromobenzene	0.4	ug/L		U	0		1.0		
Bromochloromethane	0.3	ug/L		U	0		0.5		
Bromodichloromethane	0.29	ug/L		U	0		0.50		
Bromoform	0.4	ug/L		U	0		1.0		
Bromomethane	0.9	ug/L		U	0		2.0		
Carbon disulfide	0.6	ug/L		U	0		2.0		
Carbon tetrachloride	0.3	ug/L		U	0		0.5		
Chlorobenzene	0.3	ug/L		U	0		0.5		
Chloroethane	0.5	ug/L		U	0		1.0		
Chloroform	0.3	ug/L		U	0		0.5		
Chloromethane	0.6	ug/L		U	0		1.0		
cis-1,2-Dichloroethene	0.3	ug/L		U	0		0.5		
cis-1,3-Dichloropropene	0.16	ug/L		U	0		0.30		
Dibromochloromethane	0.3	ug/L		U	0		0.5		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Method Blank Water

Analytical Run #:	166501	Analysis Date:	11/15/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	358544	Analysis Time:	10:42	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Dibromomethane	0.22	ug/L		U	0		0.50		
Dichlorodifluoromethane	0.4	ug/L		U	0		1.0		
Ethylbenzene	0.3	ug/L		U	0		0.5		
Hexachlorobutadiene	0.4	ug/L		U	0		1.0		
Isopropylbenzene	0.3	ug/L		U	0		0.5		
m & p-Xylene	0.7	ug/L		U	0		1.0		
Methylene chloride	0.4	ug/L		U	0		1.0		
n-Butylbenzene	0.29	ug/L		U	0		0.50		
n-Propylbenzene	0.3	ug/L		U	0		0.5		
Naphthalene	0.3	ug/L		U	0		0.5		
o-Xylene	0.26	ug/L		U	0		0.50		
p-Isopropyltoluene	0.3	ug/L		U	0		0.5		
sec-Butylbenzene	0.4	ug/L		U	0		0.5		
Styrene	0.29	ug/L		U	0		0.50		
tert-Butylbenzene	0.4	ug/L		U	0		1.0		
Tetrachloroethene	0.27	ug/L		U	0		0.50		
Toluene	0.21	ug/L		U	0		0.50		
trans-1,2-Dichloroethene	0.3	ug/L		U	0		0.50		
trans-1,3-Dichloropropene	0.23	ug/L		U	0		0.50		
Trichloroethene	0.3	ug/L		U	0		0.5		
Trichlorofluoromethane	0.4	ug/L		U	0		1.0		
Vinyl Acetate	5	ug/L		U	0		10		
Vinyl chloride	0.14	ug/L		U	0		0.30		

Matrix Spike Duplicate Water

Analytical Run #:	166501	Analysis Date:	11/15/2019	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	358666	Analysis Time:	14:40	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	358637	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	23300	ug/L	BDL		20000	116	78 --- 124	2	20
1,1,1-Trichloroethane	23800	ug/L	BDL		20000	119	74 --- 131	2	20
1,1,2,2-Tetrachloroethane	25500	ug/L	BDL		20000	128	71 --- 121	2	20
1,1,2-Trichloroethane	24700	ug/L	BDL		20000	124	80 --- 119	2	20
1,1-Dichloroethane	23000	ug/L	BDL		20000	115	77 --- 125	2	20
1,1-Dichloroethene	23600	ug/L	BDL		20000	118	71 --- 131	4	20
1,1-Dichloropropene	24600	ug/L	BDL		20000	123	79 --- 125	3	20
1,2 Dichloroethane-d4	98.0	% Recovery			100	98.0	81 --- 118		
1,2,3-Trichlorobenzene	27000	ug/L	BDL		20000	135	69 --- 129	4	20
1,2,3-Trichloropropane	25100	ug/L	BDL		20000	126	73 --- 122	2	20
1,2,4-Trichlorobenzene	26700	ug/L	BDL		20000	134	69 --- 130	5	20
1,2,4-Trimethylbenzene	26400	ug/L	BDL		20000	132	76 --- 124	4	20
1,2-Dibromo-3-chloropropane	25400	ug/L	BDL		20000	127	62 --- 128	1	20
1,2-Dibromoethane	25100	ug/L	BDL		20000	126	77 --- 121	2	20
1,2-Dichlorobenzene	2440	ug/L	BDL		2000	122	80 --- 119	163	20
1,2-Dichloroethane	2360	ug/L	BDL		2000	118	73 --- 128	163	20
1,2-Dichloropropane	23900	ug/L	BDL		20000	120	78 --- 122	2	20
1,3,5-Trimethylbenzene	26500	ug/L	BDL		20000	132	75 --- 124	2	20
1,3-Dichlorobenzene	24800	ug/L	BDL		20000	124	80 --- 119	2	20
1,3-Dichloropropane	23800	ug/L	BDL		20000	119	80 --- 119	2	20
1,4-Dichlorobenzene	24500	ug/L	BDL		20000	122	79 --- 118	2	20
112Trichloro122trifluoroethane	53000	ug/L	BDL		40000	132	70 --- 136	3	20
2,2-Dichloropropane	24400	ug/L	BDL		20000	122	60 --- 139	3	20
2-Butanone	295000	ug/L	BDL		200000	148	56 --- 143	4	20
2-Chlorotoluene	25000	ug/L	BDL		20000	125	79 --- 122	3	20
2-Hexanone	289000	ug/L	BDL		200000	144	57 --- 139	0	20
4-Chlorotoluene	25800	ug/L	BDL		20000	129	78 --- 122	3	20
4-Methyl-2-pentanone	276000	ug/L	BDL		200000	138	67 --- 130	0	20
Acetone	295000	ug/L	BDL		200000	148	39 --- 160	0	20
Benzene	24200	ug/L	BDL		20000	121	79 --- 120	1	20
Bromobenzene	23400	ug/L	BDL		20000	117	80 --- 120	0	20
Bromochloromethane	21900	ug/L	BDL		20000	110	78 --- 123	3	20
Bromodichloromethane	23000	ug/L	BDL		20000	115	79 --- 125	4	20
Bromofluorobenzene	103	% Recovery			100	103	85 --- 114		
Bromoform	22800	ug/L	BDL		20000	114	66 --- 130	0	20
Bromomethane	22800	ug/L	BDL		20000	114	53 --- 141	7	20
Carbon disulfide	51000	ug/L	BDL		40000	128	64 --- 133	3	20
Carbon tetrachloride	23600	ug/L	BDL		20000	118	72 --- 136	4	20
Chlorobenzene	24000	ug/L	BDL		20000	120	82 --- 118	0	20
Chloroethane	23100	ug/L	BDL		20000	116	60 --- 138	0	20
Chloroform	22600	ug/L	BDL		20000	113	79 --- 124	1	20
Chloromethane	23200	ug/L	BDL		20000	116	50 --- 139	3	20
cis-1,2-Dichloroethene	2610	ug/L	2100		2000	26	78 --- 123	163	20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Duplicate Water

Analytical Run #:	166501	Analysis Date:	11/15/2019	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	358666	Analysis Time:	14:40	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	358637	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	24400	ug/L	BDL		20000	122	75 --- 124	2	20
d8-Toluene	100	% Recovery			100	100	89 --- 112		
Dibromochloromethane	23700	ug/L	BDL		20000	118	74 --- 126	4	20
Dibromofluoromethane	99.0	% Recovery			100	99.0	80 --- 119		
Dibromomethane	23100	ug/L	BDL		20000	116	79 --- 123	0	20
Dichlorodifluoromethane	25600	ug/L	BDL		20000	128	32 --- 152	1	20
Ethylbenzene	25400	ug/L	BDL		20000	127	79 --- 121	0	20
Hexachlorobutadiene	26200	ug/L	BDL		20000	131	66 --- 134	1	20
Isopropylbenzene	26100	ug/L	BDL		20000	130	72 --- 131	1	20
m & p-Xylene	50900	ug/L	BDL		40000	127	80 --- 121	0	20
Methylene chloride	22000	ug/L	BDL		20000	110	74 --- 124	0	20
n-Butylbenzene	28000	ug/L	BDL		20000	140	75 --- 128	1	20
n-Propylbenzene	26800	ug/L	BDL		20000	134	76 --- 126	1	20
Naphthalene	28900	ug/L	BDL		20000	144	61 --- 128	4	20
o-Xylene	24000	ug/L	BDL		20000	120	78 --- 122	2	20
p-Isopropyltoluene	27400	ug/L	BDL		20000	137	77 --- 127	2	20
sec-Butylbenzene	28500	ug/L	BDL		20000	142	77 --- 126	4	20
Styrene	25400	ug/L	BDL		20000	127	78 --- 123	0	20
tert-Butylbenzene	26400	ug/L	BDL		20000	132	78 --- 124	4	20
Tetrachloroethene	23600	ug/L	BDL		20000	118	74 --- 129	0	20
Toluene	24200	ug/L	BDL		20000	121	80 --- 121	0	20
trans-1,2-Dichloroethene	23800	ug/L	BDL		20000	119	75 --- 124	1	20
trans-1,3-Dichloropropene	24700	ug/L	BDL		20000	124	73 --- 127	0	20
Trichloroethene	149000	ug/L	130000		20000	95	79 --- 123	0	20
Trichlorofluoromethane	24900	ug/L	BDL		20000	124	65 --- 141	1	20
Vinyl Acetate	276000	ug/L	BDL		200000	138	54 --- 146	1	20
Vinyl chloride	25400	ug/L	BDL		20000	127	58 --- 137	3	20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Water

Analytical Run #:	166501	Analysis Date:	11/15/2019	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	358637	Analysis Time:	14:11	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	356227	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	23700	ug/L	BDL		20000	118	78 --- 124		20
1,1,1-Trichloroethane	24200	ug/L	BDL		20000	121	74 --- 131		20
1,1,2,2-Tetrachloroethane	25000	ug/L	BDL		20000	125	71 --- 121		20
1,1,2-Trichloroethane	25300	ug/L	BDL		20000	126	80 --- 119		20
1,1-Dichloroethane	22500	ug/L	BDL		20000	112	77 --- 125		20
1,1-Dichloroethene	22700	ug/L	BDL		20000	114	71 --- 131		20
1,1-Dichloropropene	23900	ug/L	BDL		20000	120	79 --- 125		20
1,2 Dichloroethane-d4	102	% Recovery			100	102	81 --- 118		
1,2,3-Trichlorobenzene	26100	ug/L	BDL		20000	130	69 --- 129		20
1,2,3-Trichloropropane	24700	ug/L	BDL		20000	124	73 --- 122		20
1,2,4-Trichlorobenzene	25500	ug/L	BDL		20000	128	69 --- 130		20
1,2,4-Trimethylbenzene	25400	ug/L	BDL		20000	127	76 --- 124		20
1,2-Dibromo-3-chloropropane	25100	ug/L	BDL		20000	126	62 --- 128		20
1,2-Dibromoethane	25700	ug/L	BDL		20000	128	77 --- 121		20
1,2-Dichlorobenzene	23900	ug/L	BDL		20000	120	80 --- 119		20
1,2-Dichloroethane	23400	ug/L	BDL		20000	117	73 --- 128		20
1,2-Dichloropropane	23500	ug/L	BDL		20000	118	78 --- 122		20
1,3,5-Trimethylbenzene	25900	ug/L	BDL		20000	130	75 --- 124		20
1,3-Dichlorobenzene	24200	ug/L	BDL		20000	121	80 --- 119		20
1,3-Dichloropropane	24300	ug/L	BDL		20000	122	80 --- 119		20
1,4-Dichlorobenzene	23900	ug/L	BDL		20000	120	79 --- 118		20
112Trichloro122trifluoroethane	51400	ug/L	BDL		40000	128	70 --- 136		20
2,2-Dichloropropane	25100	ug/L	BDL		20000	126	60 --- 139		20
2-Butanone	284000	ug/L	BDL		200000	142	56 --- 143		20
2-Chlorotoluene	24200	ug/L	BDL		20000	121	79 --- 122		20
2-Hexanone	288000	ug/L	BDL		200000	144	57 --- 139		20
4-Chlorotoluene	25000	ug/L	BDL		20000	125	78 --- 122		20
4-Methyl-2-pentanone	277000	ug/L	BDL		200000	138	67 --- 130		20
Acetone	294000	ug/L	BDL		200000	147	39 --- 160		20
Benzene	23900	ug/L	BDL		20000	120	79 --- 120		20
Bromobenzene	23300	ug/L	BDL		20000	116	80 --- 120		20
Bromochloromethane	21200	ug/L	BDL		20000	106	78 --- 123		20
Bromodichloromethane	23900	ug/L	BDL		20000	120	79 --- 125		20
Bromofluorobenzene	100	% Recovery			100	100	85 --- 114		
Bromoform	22900	ug/L	BDL		20000	114	66 --- 130		20
Bromomethane	24400	ug/L	BDL		20000	122	53 --- 141		20
Carbon disulfide	49500	ug/L	BDL		40000	124	64 --- 133		20
Carbon tetrachloride	24600	ug/L	BDL		20000	123	72 --- 136		20
Chlorobenzene	23900	ug/L	BDL		20000	120	82 --- 118		20
Chloroethane	23000	ug/L	BDL		20000	115	60 --- 138		20
Chloroform	22900	ug/L	BDL		20000	114	79 --- 124		20
Chloromethane	22600	ug/L	BDL		20000	113	50 --- 139		20
cis-1,2-Dichloroethene	25700	ug/L	2100		20000	118	78 --- 123		20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Water

Analytical Run #:	166501	Analysis Date:	11/15/2019	Prep Batch #:		Matrix:	GROUND WATER
CTLab #:	358637	Analysis Time:	14:11	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	356227	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	24800	ug/L	BDL		20000	124	75 --- 124		20
d8-Toluene	101	% Recovery			100	101	89 --- 112		
Dibromochloromethane	22800	ug/L	BDL		20000	114	74 --- 126		20
Dibromofluoromethane	102	% Recovery			100	102	80 --- 119		
Dibromomethane	23300	ug/L	BDL		20000	116	79 --- 123		20
Dichlorodifluoromethane	25900	ug/L	BDL		20000	130	32 --- 152		20
Ethylbenzene	25400	ug/L	BDL		20000	127	79 --- 121		20
Hexachlorobutadiene	25900	ug/L	BDL		20000	130	66 --- 134		20
Isopropylbenzene	26000	ug/L	BDL		20000	130	72 --- 131		20
m & p-Xylene	51100	ug/L	BDL		40000	128	80 --- 121		20
Methylene chloride	22000	ug/L	BDL		20000	110	74 --- 124		20
n-Butylbenzene	27700	ug/L	BDL		20000	138	75 --- 128		20
n-Propylbenzene	26500	ug/L	BDL		20000	132	76 --- 126		20
Naphthalene	27800	ug/L	BDL		20000	139	61 --- 128		20
o-Xylene	24400	ug/L	BDL		20000	122	78 --- 122		20
p-Isopropyltoluene	26800	ug/L	BDL		20000	134	77 --- 127		20
sec-Butylbenzene	27500	ug/L	BDL		20000	138	77 --- 126		20
Styrene	25400	ug/L	BDL		20000	127	78 --- 123		20
tert-Butylbenzene	25500	ug/L	BDL		20000	128	78 --- 124		20
Tetrachloroethene	23600	ug/L	BDL		20000	118	74 --- 129		20
Toluene	24200	ug/L	BDL		20000	121	80 --- 121		20
trans-1,2-Dichloroethene	23700	ug/L	BDL		20000	118	75 --- 124		20
trans-1,3-Dichloropropene	24700	ug/L	BDL		20000	124	73 --- 127		20
Trichloroethene	150000	ug/L	130000		20000	100	79 --- 123		20
Trichlorofluoromethane	25000	ug/L	BDL		20000	125	65 --- 141		20
Vinyl Acetate	278000	ug/L	BDL		200000	139	54 --- 146		20
Vinyl chloride	24800	ug/L	BDL		20000	124	58 --- 137		20

Lab Control Spike Water

Analytical Run #:	166715	Analysis Date:	11/22/2019	Prep Batch #:	74516	Matrix:	LIQUID
CTLab #:	357991	Analysis Time:	13:12	Prep Date/Time:	11/14/2019 08:00	Method:	SW8270SIM
Parent Sample #:		Analyst:	RPN	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dioxane	18.5	ug/L			20.0	92	50 --- 150		30

Method Blank Water

Analytical Run #:	166715	Analysis Date:	11/22/2019	Prep Batch #:	74516	Matrix:	LIQUID
CTLab #:	357990	Analysis Time:	12:52	Prep Date/Time:	11/14/2019 08:00	Method:	SW8270SIM
Parent Sample #:		Analyst:	RPN	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dioxane	0.4	ug/L		U	0		1.0		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Duplicate Water

Analytical Run #:	166715	Analysis Date:	11/22/2019	Prep Batch #:	74516	Matrix:	GROUND WATER
CTLab #:	357996	Analysis Time:	16:33	Prep Date/Time:	11/14/2019 08:00	Method:	SW8270SIM
Parent Sample #:	357995	Analyst:	RPN	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dioxane	14.1	ug/L	BDL		20.0	70	50 --- 150	5	30
1,4-Dioxane-d8	53.1	% Recovery			100	53.1	50 --- 150		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Matrix Spike Water

Analytical Run #:	166715	Analysis Date:	11/22/2019	Prep Batch #:	74516	Matrix:	GROUND WATER
CTLab #:	357995	Analysis Time:	16:13	Prep Date/Time:	11/14/2019 08:00	Method:	SW8270SIM
Parent Sample #:	356227	Analyst:	RPN	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dioxane	14.9	ug/L	BDL		20.0	74	50 --- 150		
1,4-Dioxane-d8	58.9	% Recovery			100	58.9	50 --- 150		

Lab Control Spike Water

Analytical Run #:	166847	Analysis Date:	11/21/2019	Prep Batch #:	74636	Matrix:	LIQUID
CTLab #:	360331	Analysis Time:	12:58	Prep Date/Time:	11/20/2019 14:00	Method:	SW8270D
Parent Sample #:		Analyst:	RPN	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.103	mg/L			0.200	52	29 --- 112		20
2,4,5-Trichlorophenol	0.154	mg/L			0.200	77	53 --- 123		20
2,4,6-Trichlorophenol	0.147	mg/L			0.200	74	50 --- 125		20
2,4-Dinitrotoluene	0.163	mg/L			0.200	82	57 --- 128		20
2-Methylphenol	0.113	mg/L			0.200	56	30 --- 117		20
3 & 4-Methylphenol	0.113	mg/L			0.200	56	29 --- 110		20
Hexachlorobenzene	0.176	mg/L			0.200	88	53 --- 125		20
Hexachlorobutadiene	0.110	mg/L			0.200	55	22 --- 124		20
Hexachloroethane	0.102	mg/L			0.200	51	21 --- 115		20
Nitrobenzene	0.115	mg/L			0.200	58	45 --- 121		20
Pentachlorophenol	0.167	mg/L			0.200	84	35 --- 138		20
Pyridine	0.0701	mg/L			0.200	35	0 --- 106		20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Method Blank Water

Analytical Run #:	166847	Analysis Date:	11/21/2019	Prep Batch #:	74636	Matrix:	LIQUID
CTLab #:	360330	Analysis Time:	11:54	Prep Date/Time:	11/20/2019 14:00	Method:	SW8270D
Parent Sample #:		Analyst:	RPN	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.00019	mg/L		U	0		00050		
2,4,5-Trichlorophenol	0.0011	mg/L		U	0		.0025		
2,4,6-Trichlorophenol	0.0010	mg/L		U	0		.0025		
2,4-Dinitrotoluene	0.00021	mg/L		U	0		00050		
2-Methylphenol	0.00086	mg/L		U	0		02500		
3 & 4-Methylphenol	0.0014	mg/L		U	0		.0045		
Hexachlorobenzene	0.00027	mg/L		U	0		00050		
Hexachlorobutadiene	0.00018	mg/L		U	0		00050		
Hexachloroethane	0.00022	mg/L		U	0		00050		
Nitrobenzene	0.00016	mg/L		U	0		00050		
Pentachlorophenol	0.0011	mg/L		U	0		.0025		
Pyridine	0.00062	mg/L		U	0		00200		

Lab Control Spike Water

Analytical Run #:	166876	Analysis Date:	11/21/2019	Prep Batch #:	74635	Matrix:	LIQUID
CTLab #:	360324	Analysis Time:	19:29	Prep Date/Time:	11/20/2019 09:00	Method:	SW8081B
Parent Sample #:		Analyst:	JJY	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
alpha-Chlordane	0.00394	mg/L			0.00400	98	65 --- 125		30
Chlordane (Technical)	0.0229	mg/L			0.0250	92	50 --- 150		30
Endrin	0.00565	mg/L			0.00400	141	55 --- 135		30
gamma-Chlordane	0.00403	mg/L			0.00400	101	60 --- 125		30
Heptachlor	0.00389	mg/L			0.00400	97	40 --- 130		30
Heptachlor epoxide	0.00395	mg/L			0.00400	99	60 --- 130		30
Lindane	0.00391	mg/L			0.00400	98	25 --- 135		30
Methoxychlor	0.00514	mg/L			0.00400	128	55 --- 150		30
Toxaphene	0.0234	mg/L			0.0250	94	50 --- 150		30

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Method Blank Water

Analytical Run #:	166876	Analysis Date:	11/21/2019	Prep Batch #:	74635	Matrix:	LIQUID
CTLab #:	360323	Analysis Time:	19:13	Prep Date/Time:	11/20/2019 09:00	Method:	SW8081B
Parent Sample #:		Analyst:	JJY	Prep Analyst:	AJZ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
alpha-Chlordane	0.000009	mg/L		U	0		00020		
Chlordane (Technical)	0.000102	mg/L		U	0		00025		
Endrin	0.000006	mg/L		U	0		00012		
gamma-Chlordane	0.000007	mg/L		U	0		00020		
Heptachlor	0.000006	mg/L		U	0		00012		
Heptachlor epoxide	0.000007	mg/L		U	0		00012		
Lindane	0.000007	mg/L		U	0		00012		
Methoxychlor	0.000006	mg/L		U	0		00020		
Toxaphene	0.000176	mg/L		U	0		00025		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Lab Control Spike Water

Analytical Run #:	166947	Analysis Date:	11/22/2019	Prep Batch #:	74634	Matrix:	LIQUID
CTLab #:	360320	Analysis Time:	17:18	Prep Date/Time:	01/01/1900 08:00	Method:	SW8151A
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
2,4,5-TP (Silvex)	0.00950	mg/L			0.0100	95	51 --- 134		
2,4-D	0.0463	mg/L			0.0500	93	45 --- 152		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Method Blank Water

Analytical Run #:	166947	Analysis Date:	11/22/2019	Prep Batch #:	74634	Matrix:	LIQUID
CTLab #:	360319	Analysis Time:	17:01	Prep Date/Time:	01/01/1900 08:00	Method:	SW8151A
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
2,4,5-TP (Silvex)	0.00021	mg/L		U	0		00060		
2,4-D	0.0015	mg/L		U	0		.0030		

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Lab Control Spike Duplicate Water

Analytical Run #:	167058	Analysis Date:	12/01/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	367011	Analysis Time:	19:02	Prep Date/Time:		Method:	SW8260C
Parent Sample #:	364668	Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.01	mg/L			1.00	101	71 --- 131	0	20
1,2-Dichloroethane	0.928	mg/L			1.00	93	73 --- 128	3	20
2-Butanone	8.31	mg/L			10.0	83	56 --- 143	1	20
Benzene	0.986	mg/L			1.00	99	79 --- 120	1	20
Carbon tetrachloride	1.03	mg/L			1.00	103	72 --- 136	0	20
Chlorobenzene	1.00	mg/L			1.00	100	82 --- 118	0	20
Chloroform	0.926	mg/L			1.00	93	79 --- 124	4	20
Tetrachloroethene	1.00	mg/L			1.00	100	74 --- 129	0	20
Trichloroethene	0.927	mg/L			1.00	93	79 --- 123	0	20
Vinyl chloride	1.01	mg/L			1.00	101	58 --- 137	2	20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Lab Control Spike Water

Analytical Run #:	167058	Analysis Date:	12/01/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	364668	Analysis Time:	14:04	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.01	mg/L			1.00	101	71 --- 131		20
1,2-Dichloroethane	0.901	mg/L			1.00	90	73 --- 128		20
2-Butanone	8.40	mg/L			10.0	84	56 --- 143		20
Benzene	0.977	mg/L			1.00	98	79 --- 120		20
Carbon tetrachloride	1.03	mg/L			1.00	103	72 --- 136		20
Chlorobenzene	0.996	mg/L			1.00	100	82 --- 118		20
Chloroform	0.959	mg/L			1.00	96	79 --- 124		20
Tetrachloroethene	1.00	mg/L			1.00	100	74 --- 129		20
Trichloroethene	0.925	mg/L			1.00	92	79 --- 123		20
Vinyl chloride	1.03	mg/L			1.00	103	58 --- 137		20

HDR, INC **Project Name: LONGHORN**

SDG #: 149511 **Folder #: 149511** **Project #: 10097916**

Method Blank Water

Analytical Run #:	167058	Analysis Date:	12/01/2019	Prep Batch #:		Matrix:	LIQUID
CTLab #:	364671	Analysis Time:	14:34	Prep Date/Time:		Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:			

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	0.0004	mg/L		U	0		.0010		
1,2-Dichloroethane	0.00024	mg/L		U	0		00050		
2-Butanone	0.0026	mg/L		U	0		.0050		
Benzene	0.0004	mg/L		U	0		.0010		
Carbon tetrachloride	0.0003	mg/L		U	0		.0005		
Chlorobenzene	0.0003	mg/L		U	0		.0005		
Chloroform	0.0003	mg/L		U	0		.0005		
Tetrachloroethene	0.00027	mg/L		U	0		00050		
Trichloroethene	0.0003	mg/L		U	0		.0005		
Vinyl chloride	0.00014	mg/L		U	0		00030		

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 149511
Client: HDR, INC

Print Date / Time: 11/11/2019 14:20
Received Date / Time / By: 11/09/2019 11:40 JLS

Project Name: LONGHORN
Project Phase:

Log-In Date / Time / By: 11/11/2019 12:15 JLS
Project #: 10097916 PM: ETK

Coolers: 5 COOLERS
Custody Seals Present : **Y**

Temperature: ≤2.9 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: DATED AND SIGNED
Tracking Number: 78084332266
Temp Blank Enclosed? **Y**

Notes: SAMPLES REC'D IN GOOD CONDITION ON ICE 1 CUSTODY SEAL PRESENT AND INTACT ON EACH COOLER
ALL DATED 11/08/2019 AND SIGNED

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356164 TB-001				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 2			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356170 DPT-002 (26-27)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356170 DPT-002 (26-27)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356171 DPT-002 (32-33)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356171 DPT-002 (32-33)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356172 DPT-002 (40-41)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356172 DPT-002 (40-41)				
	TERRA CORE KIT	1	/	VOC

TERRA CORE KIT	1	/		VOC
TERRA CORE KIT	1	/		VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356173 DPT-003 (29-30)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356173 DPT-003 (29-30)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356174 DPT-003 (35-36)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356174 DPT-003 (35-36)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356175 DPT-003 (39-40)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356175 DPT-003 (39-40)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356176 DPT-001 (27-28)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356176 DPT-001 (27-28)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356177 DPT-001 (31-32)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356177 DPT-001 (31-32)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356178 DPT-001 (38-39)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356178 DPT-001 (38-39)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356179 DPT-009 (24-25)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356179 DPT-009 (24-25)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356180 DPT-009 (28-29)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356180 DPT-009 (28-29)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356181 DPT-009 (31-32)				
	SOLIDS	1	/	%SOL
	SOLIDS	1	/	%SOL
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 3			
356181 DPT-009 (31-32)				
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	Total # of Containers of Type (*TERRA CORE*) = 6			
356181 DPT-009 (31-32)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**

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356182 DUP-001

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356182 DUP-001

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356183 DPT-006 (20-21)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356183 DPT-006 (20-21)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356184 DPT-006 (27-28)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356184 DPT-006 (27-28)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356185 DPT-006(30-31)

SOLIDS	1	/	%sol
SOLIDS	1	/	%sol
SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 3

356185 DPT-006(30-31)

TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC

Total # of Containers of Type (*TERRA CORE*) = 6

356185 DPT-006(30-31)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356186 DUP-002

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356186 DUP-002

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	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356187 DPT-005 (24-25)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356187 DPT-005 (24-25)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356188 DPT-005 (27-28)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356188 DPT-005 (27-28)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356189 DPT-005 (31-32)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356189 DPT-005 (31-32)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356190 EB-001				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356191 DPT-007 (27-28)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356191 DPT-007 (27-28)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356192 DPT-007 (29-30)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356192 DPT-007 (29-30)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356193 DPT-007 (31-32)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356193 DPT-007 (31-32)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356194 DPT-004 (28-29)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356194 DPT-004 (28-29)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356195 DPT-004 (30-31)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356195 DPT-004 (30-31)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356196 DPT-004 (32-33)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356196 DPT-004 (32-33)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

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356197 DPT-008 (26-27)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356197 DPT-008 (26-27)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356198 DPT-008 (27-28)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356198 DPT-008 (27-28)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356199 DPT-008 (29-30)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356199 DPT-008 (29-30)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356200 DPT-010 (23-24)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356200 DPT-010 (23-24)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356201 DPT-010 (28-29)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356201 DPT-010 (28-29)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356202 DPT-010 (32-33)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356202 DPT-010 (32-33)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356203 DUP-003

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356203 DUP-003

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356204 DPT-011 (22-23)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356204 DPT-011 (22-23)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356205 DPT-011 (27-28)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356205 DPT-011 (27-28)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356206 DPT-011 (31-32)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356206 DPT-011 (31-32)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356207 DPT-002

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

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	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 9

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356208 DUP-004				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356209 DPT-003				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356210 DPT-004				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356211 DPT-009				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356212 DPT-006				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356213 DPT-007				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356214 DPT-001				
	AMBER GL	1	/	8270

	AMBER GL	1	/	8270

Total # of Containers of Type (*AMBER GL*) = 2

356214 DPT-001

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356215 DPT-005

AMBER GL	1	/	8270
AMBER GL	1	/	8270

Total # of Containers of Type (*AMBER GL*) = 2

356215 DPT-005

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356216 DPT-008

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356217 DPT-010

AMBER GL	1	/	8270
AMBER GL	1	/	8270

Total # of Containers of Type (*AMBER GL*) = 2

356217 DPT-010

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356218 46ADPT-TCLP

AMBER GL	1	/	8270,HERBS,PEST

Total # of Containers of Type (*AMBER GL*) = 1

356218 46ADPT-TCLP

SOLIDS	1	/	HG,ICP

Total # of Containers of Type (*SOLIDS*) = 1

356218 46ADPT-TCLP

JAR GL	1	/	VOC

Total # of Containers of Type (*JAR GL*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356219 46ADPT-TCLP

SOLIDS	1	/	%SOL,CN React,FLASH,pH,S2 React

Total # of Containers of Type (*SOLIDS*) = 1

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Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356220 EB-002				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356221 DPT-011				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356222 47WW09				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356223 EB-003				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			
356223 EB-003				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356224 47WW37				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356225 DUP-005				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356226 DUP-006				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356227 47WW25R-35				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 6			
356227 47WW25R-35				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356228 47WW25R-38				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			
356228 47WW25R-38				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356229 TB-002				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 2			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356230 TB-003				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 2			

Condition Code	*Condition Description*
1	Sample Received OK

149511

Rev. 02/2017

CHAIN OF CUSTODY

Page 1 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

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Folder #: 149511
Company: HDR, INC
Project: LONGHORN
Logged By: JLS PM: ET

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAMB
EMAIL:
Company:
Address:

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Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test			
11/4/19	0800	TB	—		TB-001		X	2		356164
11/4/19	1400	S	G		DPT-002 (26-27)		X	4		356170
11/4/19	1410	S	G		DPT-002 (32-33)		X	4		356171
11/4/19	1420	S	G		DPT-002 (40-41)		X	4		356172
11/4/19	1540	S	G		DPT-003 (29-30)		X	4		356173
11/4/19	1550	S	G		DPT-003 (35-36)		X	4		356174
11/4/19	1600	S	G		DPT-003 (39-40)		X	4		356175
11/5/19	0810	S	G		DPT-001 (27-28)		X	4		356176
11/5/19	0820	S	G		DPT-001 (31-32)		X	4		356177
11/5/19	0830	S	G		DPT-001 (38-39)		X	4		356178
11/5/19	0940	S	G		DPT-009 (24-25)		X	4		356179
11/5/19	0950	S	G		DPT-009 (28-29)		X	4		356180

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600	Tyler	
Received by:	Date/Time	Received for Laboratory by:	Date/Time
jls for ATJ	11/9/19 1140		11/11/19 1215

Lab Use Only
Ice Present (Yes) No
Temp <2.9 IR Gun 28
Cooler # 5 Coolers

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Blds 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

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Lab Use Only
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M49511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:*
EMAIL: SAME
Company:
Address:

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Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test			
11/5/19	1000	S	G		DPT-009 (31-32)		X	4		356181
11/5/19	1000	S	G		DPT-009 (31-32) MS		X	4		356181
11/5/19	1000	S	G		DPT-009 (31-32) MSD		X	4		356181
11/5/19	0800	S	G		DUP-001		X	4		356182
11/5/19	1120	S	G		DPT-006 (20-21)		X	4		356183
11/5/19	1130	S	G		DPT-006 (27-28)		X	4		356184
11/5/19	1140	S	G		DPT-006 (30-31)		X	4		356185
11/5/19	0830	S	G		DUP-002		X	4		356186
11/5/19	1140	S	G		DPT-006 (30-31) MS		X	4		356185
11/5/19	1140	S	G		DPT-006 (30-31) MSD		X	4		356185
11/5/19	1250	S	G		DPT-005 (24-25)		X	4		356187
11/5/19	1300	S	G		DPT-005 (27-28)		X	4		356188

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600	Fedex	
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
[signature]	11/9/19 1140	[signature]	11/11/19 0915

Lab Use Only
Ice Present (Yes) No
Temp 2.2-1 IR Gun 28
Cooler # 5coolers

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

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Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

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Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					Fill in Spaces with Bottles per Test					
11/5/19	1310	S	G		DPT-005 (31-32)		X	4		356189
11/5/19	1500	W	—		EB-001		X	3		356190
11/5/19	1520	S	G		DPT-007 (27-28)		X	4		356191
11/5/19	1530	S	G		DPT-007 (29-30)		X	4		356192
11/5/19	1540	S	G		DPT-007 (31-32)		X	4		356193
11/6/19	0900	S	G		DPT-004 (28-29)		X	4		356194
11/6/19	0910	S	G		DPT-004 (30-31)		X	4		356195
11/6/19	0920	S	G		DPT-004 (32-33)		X	4		356196
11/6/19	1050	S	G		DPT-008 (26-27)		X	4		356197
11/6/19	1100	S	G		DPT-008 (27-28)		X	4		356198
11/6/19	1110	S	G		DPT-008 (29-30)		X	4		356199
11/6/19	1200	S	G		DPT-010 (23-24)		X	4		356200

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600	Fedex	
Received by:	Date/Time	Received for Laboratory by:	Date/Time
GB for ATS	11/9/19 1140	[signature]	11/11/19 1215

Lab Use Only
Ice Present (Yes) No
Temp 4.2.7 IR Gun 28
Cooler # 5 coolers

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097911
Location: LHAAP
Sampled By: FEN

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149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address:

Invoice To:* SAMB
EMAIL:
Company:
Address:

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Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test			
11/6/19	1210	S	G		DPT-010 (28-29)		X	4		356201
11/6/19	1220	S	G		DPT-010 (32-33)		X	4		356202
11/6/19	0800	S	G		DUP-003		X	4		356203
11/6/19	1340	S	G		DPT-011 (22-23)		X	4		356204
11/6/19	1350	S	G		DPT-011 (27-28)		X	4		356205
11/6/19	1400	S	G		DPT-011 (31-32)		X	4		356206
11/6/19	1420	GW	G		DPT-002		X	3		356207
11/6/19	1420	GW	G		DPT-002 MS		X	3		356207
11/6/19	1420	GW	G		DPT-002 MSD		X	3		356207
11/6/19	0830	GW	G		DUP-004		X	3		356208
11/6/19	1500	GW	G		DPT-003		X	3		356209
11/6/19	1515	GW	G		DPT-004		X	3		356210

Relinquished By:	Date/Time	Received By:	Date/Time	Lab Use Only
BRIC NORTH	11/08/2019 1600	Fedex		Ice Present (Yes) No
Received by:	Date/Time	Received for Laboratory by:	Date/Time	Temp 2.9 IR Gun 28
for ATJ	11/9/19 1140		11/11/19 MS	Cooler # 5 Coolers

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: –
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

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Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: –

Invoice To:* SAME
EMAIL:
Company:
Address:

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Client Special Instructions
DPT-007 expected to be hot

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	VOC	1,4-Dioxane	TCLP VOC	TCLP SVOC	TCLP Metals/Hg	TCLP Herbicides	TCLP Pesticides	Ignitability	Corrosivity	Reactivity	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test													
11/6/19	1525	GW	G		DPT-009		X										3		356211
11/6/19	1540	GW	G		DPT-006		X										3		356212
11/6/19	1550	GW	G		DPT-007		X										3		356213
11/7/19	0720	GW	G		DPT-001		X	X									5		356214
11/7/19	0800	GW	G		DPT-005		X	X									5		356215
11/7/19	0830	GW	G		DPT-008		X										3		356216
11/7/19	0840	GW	G		DPT-010		X	X									5		356217
11/7/19	1030	S	C		46ADPT-TCLP				X	X	X	X	X	X	X	X	3		356218/219
11/6/19	1600	W	–		EB-002		X										3		356220
11/7/19	0915	GW	G		DPT-011		X										3		356221
11/7/19	1525	GW	G		47WW09			X									2		356222
11/8/19	0700	W	–		EB-003		X	X									5		356223

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
[illegible] ATJ	11/9/19 1140	[illegible]	11/11/19 1015

Lab Use Only
Ice Present (Yes) No
Temp 2.2-2 IR Gun 28
Cooler # SCooler

Rev. 02/2017

CHAIN OF CUSTODY

Page 6 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

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Program:
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Solid Waste Other _____

PO #

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Company: HDR
Address: —

Invoice To:*
EMAIL: SAMB
Company:
Address:

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Client Special Instructions
47WW25R expected to be hot

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	Vac	1,4-Dioxane												Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test																
11/8/19	0915	GW	G		47WW37		X													3		356224
11/8/19	0800	GW	G		DUP-005		X													3		356225
11/8/19	0830	GW	G		DUP-006			X												2		356226
11/8/19	1040	GW	G		47WW25R-35		X	X												5		356227
11/8/19	1040	GW	G		47WW25R-35MS			X												2		356227
11/8/19	1040	GW	G		47WW25R-35MSD			X												2		356227
11/8/19	1130	GW	G		47WW25R-38		X	X												5		356228
11/4/19	0800	TB	—		TB-002		X													2		356229
11/4/19	0800	TB	—		TB-003		X													2		356230

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
JOATJ	11/9/19 1140		11/11/19 1215

Lab Use Only
Ice Present (Yes) No
Temp 4.2-.1 IR Gun 28
Cooler # 5 coolers

Cooler Receipt Form

Ice Present (YES) NO

Temperature 0.6

IR Gun # 28

Initials AFS

Date 11-9-19 Time 11:40

Cooler #: 6309



Cooler Receipt Form

Ice Present (YES) NO

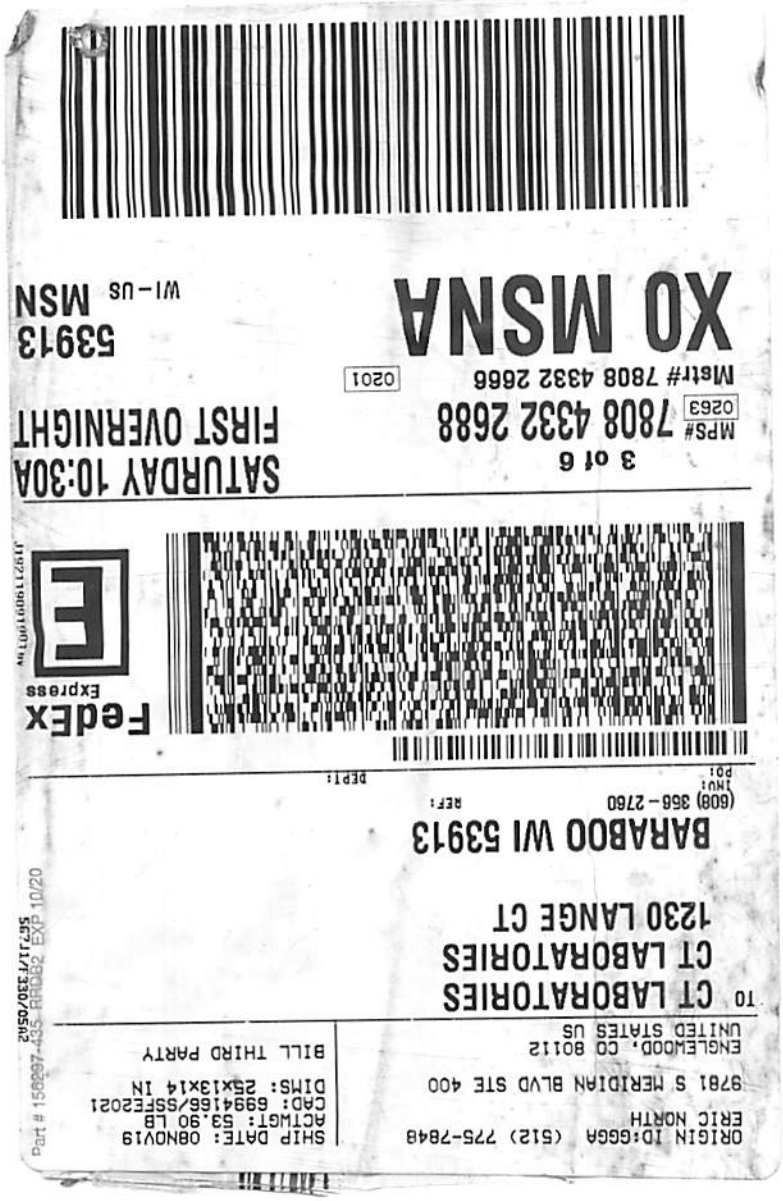
Temperature 2.9

IR Gun # 28

Initials AT

Date 11-9-19 Time 12:30

Cooler #: 5602





Cooler Receipt Form

Ice Present (YES) NO

Temperature 2.3

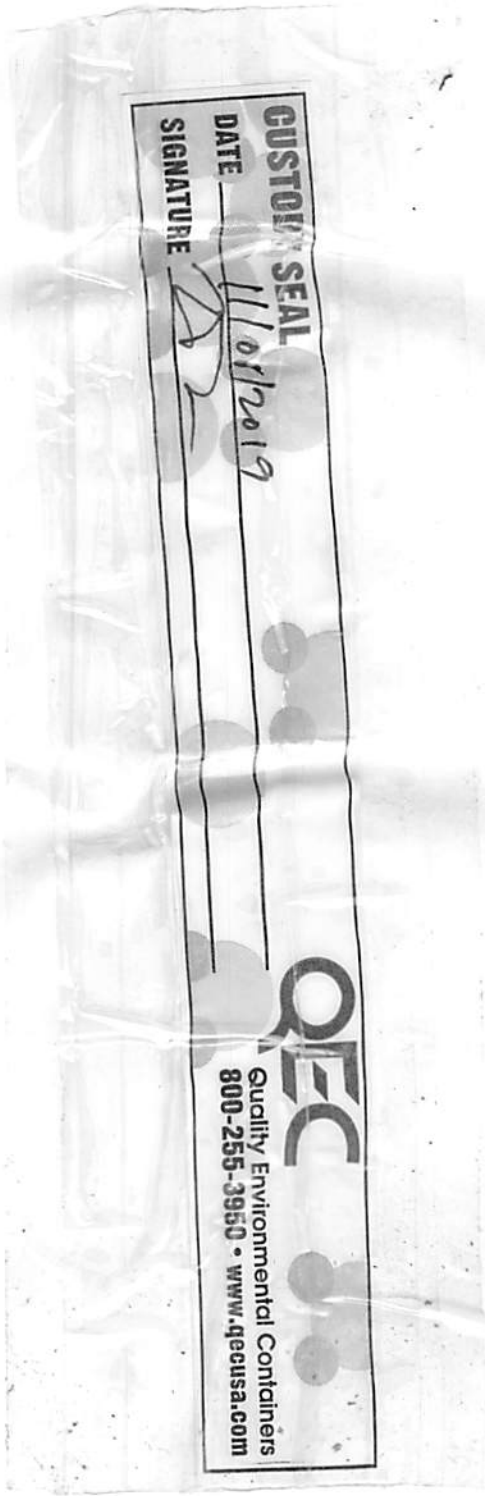
IR Gun # 26

Initials ATS

Date 11-9-19 Time 12:30

Cooler #: G335





Cooler Receipt Form

Ice Present (YES) NO

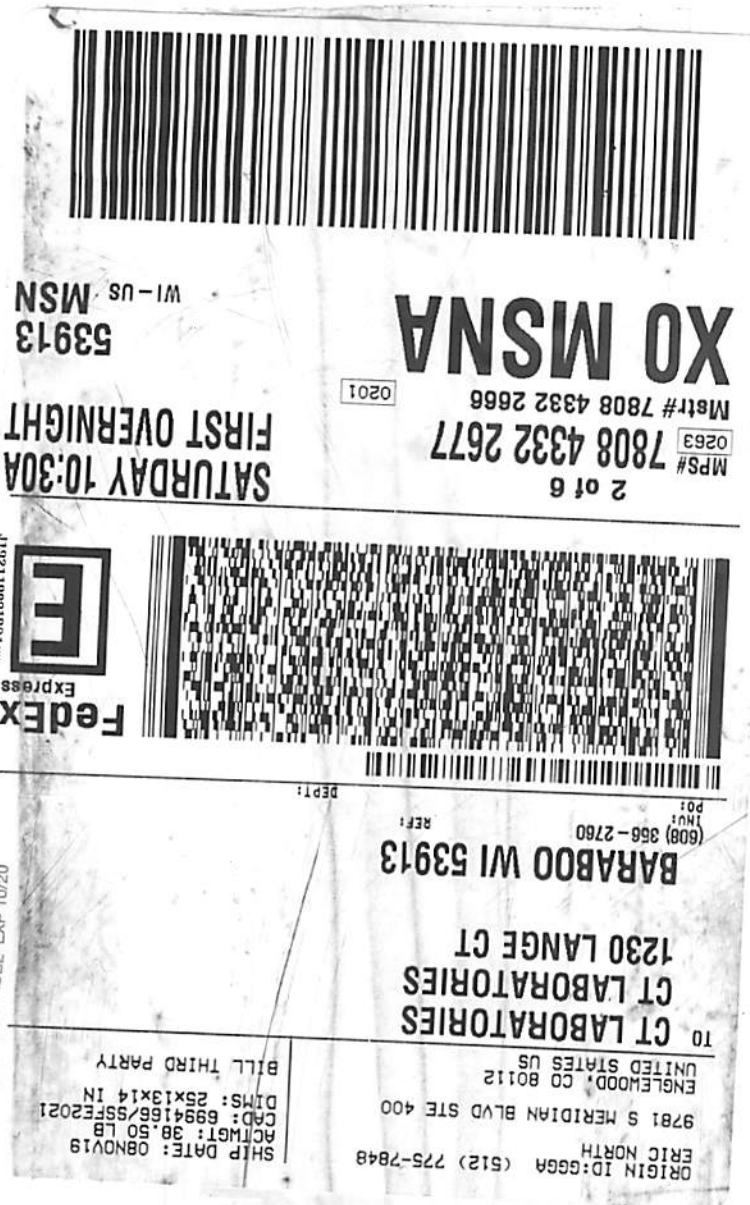
Temperature 1.2

IR Gun # 28

Initials AJS

Date 11-1-19 Time 17:50

Cooler #: 6178





Cooler Receipt Form

Ice Present (YES) NO

Temperature 1

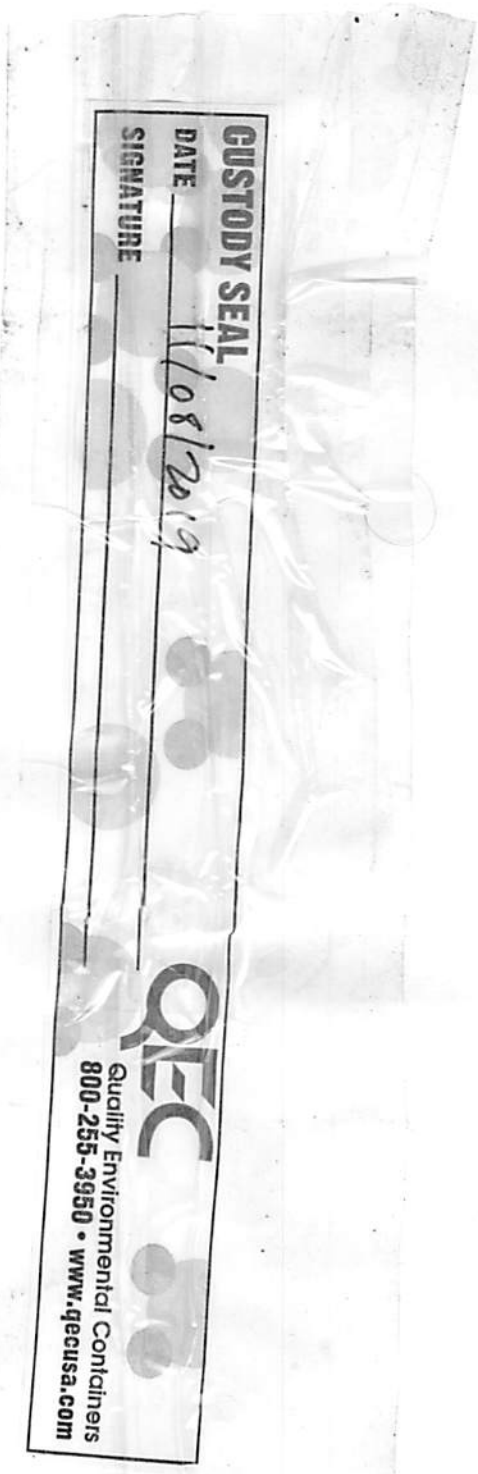
IR Gun # 28

Initials HTS

Date 11-9-19 Time 11:50

Cooler #: 6310





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ANALYTICAL RESULTS FOR:

LYNN LUTZ
HDR
9563 S. KINGSTON COURT
ENGLEWOOD, CO 80112

PROJECT SITE:	Longhorn AAP, Karnack, TX
WORK ORDER/CONTRACT #:	
PROJECT #:	10097916
SDG:	149511
PREPARED:	December 9, 2019
DOCUMENT PAGES:	2616

The data contained in the following report have been reviewed by the appropriate CT Laboratories' LLC staff members. In addition, CT Laboratories LLC certifies that to the best of our knowledge that the analyses reported herein are true, complete and correct within the limits of the methods employed and that they follow the applicable requirements as specified by the project plan, state-specific, NELAC or DOD QSM requirements. The estimated uncertainty of measurement is only available upon request. The reported results relate only to the tested samples. This report shall not be reproduced, except in full, without written approval of CT Laboratories LLC.

APPROVED BY: _____ LABORATORY DIRECTOR

APPROVED BY: _____ PROJECT MANAGER

Certifications: IL (NELAP 002413), KS (NELAP E-10368), KY (0023), WI (157066030), DOD ELAP (A2LA 3806.01), VA (7608), MD (344), LA (NELAP 115843), ISO17025 (A2LA 3806.01, GA EDP Stipulation (Accreditor: LA NELAP, ACC#: E971111, Scope: Non-potable water solid and chemical materials, biological tissue, Effective: 12/10/2014, Expires: annually), PA (68-04201) #008

CT LABORATORIES

delivering more than data from your environmental analyses

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delivering more than data from your environmental analyses

Case Narrative

Client: HDR, Englewood, CO
Project: Longhorn AAP, Karnack, TX
Sample Receipt Date(s): 11-11-2019
SDG #: 149511

Thirty-five soils were analyzed for VOCs and twenty-one aqueous samples were analyzed for a variety of analyses, including: 1,4-dioxane and VOCs. One solid IDW sample was analyzed for pH, flashpoint, reactive and sulfide, TCLP RCRA metals, TCLP SVOCs, TCLP pesticides, TCLP herbicides, and TCLP VOC's. Three trip blanks were included with the VOC analyses. The assigned sample ID numbers, date sampled, and date received are indicated in the attached Project Summary. The samples were received intact and the samples at a temperature within method specified acceptance limits. Any exceptions are noted below. The analyses were performed, where applicable, following QSM 5.1 requirements.

Manual integrations may have been performed on the data provided with this package. If manual integrations were performed, Reason #(s) were included on the raw data that corresponds to the "Index Key for Manual Integration Rationale." The raw data includes a "Before" and "After" manual integration illustration. The manual integrations were initialed and dated by the analyst, as well as, by the person reviewing the data.

Sample Analysis and Quality Control

Volatile Analysis:

The samples were analyzed using US EPA Method 8260C (VOCs). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

Detailed reports were provided for the 8260 data for all detected compounds, as well as, for those compounds manually integrated (if applicable). Compounds not reported on the form 1's were either not detected or did not meet identification criteria so they were reported as non-detects.

Compounds that may not meet the recommended minimum average response factor (ARF) criteria for 8260C (such as several of the ketones) are analyzed at concentrations 2 to 50 times higher than normal to make up for their lack of response. However, the ARF on the response factor (RF) forms do not reflect this change in concentration. These compounds may be "flagged" on RF forms as a result.

Continuing Calibration Verification (CCV) compounds are calibrated using either response factor (with acceptance criteria <20%deviation, or <50% deviation for CCVF) or quadratic regression (with acceptance criteria <20% drift, or <50% drift for CCVF). Non-conformances were qualified with a "Z" flag unless otherwise noted.

VOC (8260C) TCLP Analysis

Analytical Run # 167058

All analytical results for this run met the method/project specified quality control criteria.

VOC (8260C) Aqueous Analyses

Analytical Run # 166500

CCV1 had a high recovery outside of specified criteria for sec-butylbenzene.

The Matrix Spike (MS) for sample # 356207 on run # 166500 had high recoveries for sec-butylbenzene and trichloroethene. The Matrix Spike Duplicate (MSD) for this sample had high recoveries for n-butylbenzene and sec-butylbenzene and a low recovery for trichloroethene. The parent sample result for these compounds was qualified with an "M" flag. The MS/MSD also had a Relative Percent Difference (RPD) failure for trichloroethene. The parent sample result for this compound was qualified with a "Y" flag.

Analytical Run # 166501

CCV2 had high recoveries outside of specified criteria for n-butylbenzene and sec-butylbenzene.

The MS and the MSD for sample # 356227 had multiple high recoveries. The parent sample results for the failing compounds were qualified with an "M" flag. The MS/MSD also had RPD exceedances for 1,2-dichlorobenzene and c-1,2-dichloroethene. The parent sample result for these compounds was qualified with a "Y" flag.

VOC (8260C) Low-level Solid Analyses

Analytical Run # 166497

CCV3 had high recoveries outside of specified criteria for dichlorodifluoromethane and methylene chloride and a low recovery for bromomethane.

The Matrix Spike (MS) and/or the Matrix Spike Duplicate (MSD) for sample # 356181 had multiple recovery failures. The parent sample results for the failing compounds were qualified with an "M" flag. The MS/MSD also had a number of compounds exceeding Relative Percent Difference (RPD) limits. The parent sample results for the compounds with RPD failures were qualified with a "Y" flag.

The samples with compounds exceeding the calibration range of the low level analyses were reanalyzed using the Methanol (MeOH) preserved samples. The QC associated with the targeted compounds for MeOH reanalysis was acceptable.

The samples that did not purge efficiently or contained suspected carry over during the initial analyses were reanalyzed.

Analytical Run # 166498

CCV2 had a low recovery outside of specified criteria for bromomethane.

CCV3 had high recoveries outside of specified criteria for dichlorodifluoromethane and methylene chloride and a low recovery for bromomethane.

The MS for sample # 356185 had low recoveries for 1,2-dichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3-dichlorobenzene, and naphthalene. The MSD for this sample had low recoveries for 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene and high recoveries for 1,2,3-trichloropropane and methylene chloride. The parent sample result for these compounds was qualified with an "M" flag.

The samples with compounds exceeding the calibration range of the low level analyses were reanalyzed using the Methanol (MeOH) preserved samples. The QC associated with the targeted compounds for MeOH reanalysis was acceptable.

The samples that did not purge efficiently or contained suspected carry over during the initial analyses were reanalyzed.

Semi-volatile Analysis:

The samples were analyzed using US EPA Method 8270D (SVOC SIM mode for 1,4-dioxane and full scan for TCLP analytes). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

Some samples may have been analyzed and/or reanalyzed diluted to obtain results for all target compounds within the calibration range of the instrument.

Samples suspected of being poorly purged, improperly prepped, mis-injected, or potentially contaminated from carryover were reanalyzed and reported accordingly.

Detailed reports were provided for the 8270 data for all detected compounds, as well as, for those compounds manually integrated (if applicable).

SVOCs (8270D) TCLP Analyses

Analytical Run #161315

The TCLP leach vessel blank appeared to be contaminated. No TCLP analytes were detected in the TCLP leach vessel blank. All analysis results for this SDG met the method/project specified quality control criteria.

SVOCs (8270D-SIM) 1,4-Dioxane Aqueous Analyses

Analytical Run #166715

These samples had matrix interference affecting the surrogate 1,4-dioxane-d8 primary quant ion of 96. The samples were processed using a quant ion of 64 for surrogate 1,4-dioxane-d8.

Samples 356226 and 356228 had low recoveries of surrogate standard 1,4-dioxane-d8. These surrogates were qualified with "S".

Pesticide/Herbicide Analyses:

The samples were analyzed using US EPA Methods 8081B (pesticides) and 8151A (herbicides). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

Some samples may have been analyzed and/or reanalyzed diluted to obtain results for all target compounds within the calibration range of the instrument.

Samples suspected of being poorly purged, improperly prepped, mis-injected, or potentially contaminated from carryover were reanalyzed and reported accordingly.

Pesticides (8081B) TCLP Analyses

Analytical Run #166876

LCS 360324 had a high recovery of endrin. This analyte was qualified with "Q" in the associated samples. The MS was analyzed on a sample from a different SDG.

Herbicides (8151A) TCLP Analyses

Analytical Run # 166947

All analysis results for this SDG met the method/project specified quality control criteria.

Metals:

The samples were analyzed using US EPA Methods 6010C (ICP) and 7470A (Hg). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Initial and Continuing Calibration Verification
Blanks Summary
ICP Interference Check Data
Spike Sample Recovery
Duplicates Data
Laboratory Control Sample Data
Analysis Run Log

All analysis results met the method specified quality control criteria with the following exceptions:

Continuing Calibration Verifications standards were analyzed at two levels (CCV1 & CCV2) with potentially differing wavelengths. Data associated with CCV's were evaluated based on the concentration of the element in the samples and compared to the appropriate CCV level/wavelength. Some samples may have been analyzed and/or reanalyzed diluted to obtain results for all target analytes within the calibration range of the instrument.

ICP Metals (6010C) TCLP Analysis

Analytical Run # 166766

Barium was detected in the Method Blank (MB) greater than the absolute value of the Method Detection Limit (MDL) but less than ½ the Reporting Limit (RL). The sample was reported and not qualified because the MB result was less than $1/10^{th}$ of the sample result.

The Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) for sample # 356218 had failing recoveries for arsenic, cadmium, selenium, and silver. A Serial Dilution (L) was analyzed and was not applicable for arsenic, cadmium, selenium, and silver because the parent sample raw results were less than 50 times the Limit of Quantitation (LOQ). A Post Digestion Spike (PDS) was analyzed and was not acceptable for selenium. The parent sample was reported and qualified with an "M" flag for the failing element.

The Duplicate (DUP) for sample # 356218 was not applicable for arsenic, cadmium, chromium, lead, selenium, and silver because the parent sample results were less than five times the LOQ. An MSD was analyzed to demonstrate precision and was acceptable. The parent sample was reported and not qualified.

CVAA Mercury (7470A) TCLP Analysis

Analytical Run # 164096

The DUP for sample # 356218 was not applicable for mercury because the parent sample result was less than five times the LOQ. An MSD was analyzed to demonstrate precision and was acceptable. The parent sample was reported and not qualified.

The MSD for sample # 356218 had a failing recovery. The parent sample was reported and qualified with an "M" flag.

Inorganics:

The samples were analyzed using US EPA Methods SW846 Chapter 3 (reactive sulfide and cyanide), 1010 (flashpoint) and 9045D (pH). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Initial and Continuing Calibration Verification
Blanks Summary
ICP Interference Check Data
Spike Sample Recovery
Duplicates Data
Laboratory Control Sample Data
Analysis Run Log

All analysis results met the method specified quality control criteria with the following exceptions:

Flashpoint (1010) Solid Analyses

Analytical Run # 166449

All analytical results for this run met the method/project specified quality control criteria.

pH (9045D) Solid Analyses

Analytical Run # 166453

All analytical results for this run met the method/project specified quality control criteria.

Reactive Cyanide (SW846 Chpt3) Solid Analyses

Analytical Run # 166589

All analytical results for this run met the method/project specified quality control criteria.

Reactive Sulfide (SW846 Chpt3) Solid Analyses

Analytical Run # 166583

All analytical results for this run met the method/project specified quality control criteria.

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Data Qualifiers

Code	Description
A	Analyte averaged calibration criteria within acceptable limits.
B	Analyte detected in associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was not above the detection level.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Calibration criteria exceeded.

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MANUAL INTEGRATION REASON CODES

CTLaboratories has identified four general cases with valid reasons supporting the use of manual integration techniques. These codes are used on chromatograms in this data package to document the reasons for manual integrations per CTLaboratories' SOP SS-10 current revision.

#1: **Data system failed to select the correct peak or missed the peak entirely.**
In some cases the chromatography system selects and integrates the "wrong peak". In this case the analyst must correct the selection and force the system to integrate the proper peak. In other instances the system may miss the peak completely. In this case the analyst manually integrated the peak

#2: **Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.**
This phenomenon is common at low concentrations where the signal to noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low or high area counts for the target compound.

#3: Improperly Integrated Isomers and/or coeluting compounds.
For when the system fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations may be inaccurate, and they must be corrected by manual integration. Prime examples are compounds that are unresolved and integrated improperly when present at low concentrations in standards or samples.

#4: System Established Incorrect Baseline.
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and may be corrected via manual procedures.

#5: Miscellaneous.
Some situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the group supervisor. If the form of manual integration is not clearly covered by these four cases, then review and approval by the group supervisor or the *QA/QC* Supervisor will be required.

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Sample Delivery Group

149511

HDR, INC
LYNN LUTZ
9781 S. MERIDIAN BLVD.
SUITE 400
ENGLEWOOD, CO 80112

Project Name: LONGHORN
Project #: 10097916

	CT Sample #	Folder #	Client Sample #	Sample Description	Matrix	Date Sampled	Date Received
1	356164	149511		TB-001	TRIP BLANK	11/04/2019	11/11/2019
2	356170	149511		DPT-002 (26-27)	SOIL	11/04/2019	11/11/2019
3	356171	149511		DPT-002 (32-33)	SOIL	11/04/2019	11/11/2019
4	356172	149511		DPT-002 (40-41)	SOIL	11/04/2019	11/11/2019
5	356173	149511		DPT-003 (29-30)	SOIL	11/04/2019	11/11/2019
6	356174	149511		DPT-003 (35-36)	SOIL	11/04/2019	11/11/2019
7	356175	149511		DPT-003 (39-40)	SOIL	11/04/2019	11/11/2019
8	356176	149511		DPT-001 (27-28)	SOIL	11/05/2019	11/11/2019
9	356177	149511		DPT-001 (31-32)	SOIL	11/05/2019	11/11/2019
10	356178	149511		DPT-001 (38-39)	SOIL	11/05/2019	11/11/2019
11	356179	149511		DPT-009 (24-25)	SOIL	11/05/2019	11/11/2019
12	356180	149511		DPT-009 (28-29)	SOIL	11/05/2019	11/11/2019
13	356181	149511		DPT-009 (31-32)	SOIL	11/05/2019	11/11/2019
14	356182	149511		DUP-001	SOIL	11/05/2019	11/11/2019
15	356183	149511		DPT-006 (20-21)	SOIL	11/05/2019	11/11/2019
16	356184	149511		DPT-006 (27-28)	SOIL	11/05/2019	11/11/2019
17	356185	149511		DPT-006(30-31)	SOIL	11/05/2019	11/11/2019
18	356186	149511		DUP-002	SOIL	11/05/2019	11/11/2019
19	356187	149511		DPT-005 (24-25)	SOIL	11/05/2019	11/11/2019
20	356188	149511		DPT-005 (27-28)	SOIL	11/05/2019	11/11/2019
21	356189	149511		DPT-005 (31-32)	SOIL	11/05/2019	11/11/2019
22	356190	149511		EB-001	GROUND WATER	11/05/2019	11/11/2019
23	356191	149511		DPT-007 (27-28)	SOIL	11/05/2019	11/11/2019
24	356192	149511		DPT-007 (29-30)	SOIL	11/05/2019	11/11/2019
25	356193	149511		DPT-007 (31-32)	SOIL	11/05/2019	11/11/2019
26	356194	149511		DPT-004 (28-29)	SOIL	11/06/2019	11/11/2019
27	356195	149511		DPT-004 (30-31)	SOIL	11/06/2019	11/11/2019
28	356196	149511		DPT-004 (32-33)	SOIL	11/06/2019	11/11/2019
29	356197	149511		DPT-008 (26-27)	SOIL	11/06/2019	11/11/2019
30	356198	149511		DPT-008 (27-28)	SOIL	11/06/2019	11/11/2019
31	356199	149511		DPT-008 (29-30)	SOIL	11/06/2019	11/11/2019
32	356200	149511		DPT-010 (23-24)	SOIL	11/06/2019	11/11/2019

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Sample Delivery Group

149511

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ENGLEWOOD, CO 80112

Project Name: LONGHORN
Project #: 10097916

	CT Sample #	Folder #	Client Sample #	Sample Description	Matrix	Date Sampled	Date Received
33	356201	149511		DPT-010 (28-29)	SOIL	11/06/2019	11/11/2019
34	356202	149511		DPT-010 (32-33)	SOIL	11/06/2019	11/11/2019
35	356203	149511		DUP-003	SOIL	11/06/2019	11/11/2019
36	356204	149511		DPT-011 (22-23)	SOIL	11/06/2019	11/11/2019
37	356205	149511		DPT-011 (27-28)	SOIL	11/06/2019	11/11/2019
38	356206	149511		DPT-011 (31-32)	SOIL	11/06/2019	11/11/2019
39	356207	149511		DPT-002	GROUND WATER	11/06/2019	11/11/2019
40	356208	149511		DUP-004	GROUND WATER	11/06/2019	11/11/2019
41	356209	149511		DPT-003	GROUND WATER	11/06/2019	11/11/2019
42	356210	149511		DPT-004	GROUND WATER	11/06/2019	11/11/2019
43	356211	149511		DPT-009	GROUND WATER	11/06/2019	11/11/2019
44	356212	149511		DPT-006	GROUND WATER	11/06/2019	11/11/2019
45	356213	149511		DPT-007	GROUND WATER	11/06/2019	11/11/2019
46	356214	149511		DPT-001	GROUND WATER	11/07/2019	11/11/2019
47	356215	149511		DPT-005	GROUND WATER	11/07/2019	11/11/2019
48	356216	149511		DPT-008	GROUND WATER	11/07/2019	11/11/2019
49	356217	149511		DPT-010	GROUND WATER	11/07/2019	11/11/2019
50	356218	149511		46ADPT-TCLP	TCLP	11/07/2019	11/11/2019
51	356219	149511		46ADPT-TCLP	SOIL	11/07/2019	11/11/2019
52	356220	149511		EB-002	GROUND WATER	11/06/2019	11/11/2019
53	356221	149511		DPT-011	GROUND WATER	11/07/2019	11/11/2019
54	356222	149511		47WW09	GROUND WATER	11/07/2019	11/11/2019
55	356223	149511		EB-003	GROUND WATER	11/08/2019	11/11/2019
56	356224	149511		47WW37	GROUND WATER	11/08/2019	11/11/2019
57	356225	149511		DUP-005	GROUND WATER	11/08/2019	11/11/2019
58	356226	149511		DUP-006	GROUND WATER	11/08/2019	11/11/2019
59	356227	149511		47WW25R-35	GROUND WATER	11/08/2019	11/11/2019
60	356228	149511		47WW25R-38	GROUND WATER	11/08/2019	11/11/2019
61	356229	149511		TB-002	TRIP BLANK	11/04/2019	11/11/2019
62	356230	149511		TB-003	TRIP BLANK	11/04/2019	11/11/2019

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QC Batch Cross Reference Summary

HDR, INC
LYNN LUTZ
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Project Name:	LONGHORN
Project #:	10097916
Report Date:	12/10/2019
Date Received:	11/11/2019
SDG #:	149511

Inorganic Parameters

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356170	Solids, Percent	EPA 8000C	SOIL		166542
356171	Solids, Percent	EPA 8000C	SOIL		166542
356172	Solids, Percent	EPA 8000C	SOIL		166542
356173	Solids, Percent	EPA 8000C	SOIL		166542
356174	Solids, Percent	EPA 8000C	SOIL		166542
356175	Solids, Percent	EPA 8000C	SOIL		166542
356176	Solids, Percent	EPA 8000C	SOIL		166542
356177	Solids, Percent	EPA 8000C	SOIL		166542
356178	Solids, Percent	EPA 8000C	SOIL		166542
356179	Solids, Percent	EPA 8000C	SOIL		166542
356180	Solids, Percent	EPA 8000C	SOIL		166542
356181	Solids, Percent	EPA 8000C	SOIL		166542
356182	Solids, Percent	EPA 8000C	SOIL		166542
356183	Solids, Percent	EPA 8000C	SOIL		166542
356184	Solids, Percent	EPA 8000C	SOIL		166542
356185	Solids, Percent	EPA 8000C	SOIL		166542
356186	Solids, Percent	EPA 8000C	SOIL		166542
356187	Solids, Percent	EPA 8000C	SOIL		166542
356188	Solids, Percent	EPA 8000C	SOIL		166542
356189	Solids, Percent	EPA 8000C	SOIL		166542
356191	Solids, Percent	EPA 8000C	SOIL		166543
356192	Solids, Percent	EPA 8000C	SOIL		166543
356193	Solids, Percent	EPA 8000C	SOIL		166543
356194	Solids, Percent	EPA 8000C	SOIL		166543
356195	Solids, Percent	EPA 8000C	SOIL		166543
356196	Solids, Percent	EPA 8000C	SOIL		166543
356197	Solids, Percent	EPA 8000C	SOIL		166543

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Project Name: LONGHORN
Project #: 10097916
SDG #: 149511

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356198	Solids, Percent	EPA 8000C	SOIL		166543
356199	Solids, Percent	EPA 8000C	SOIL		166543
356200	Solids, Percent	EPA 8000C	SOIL		166543
356201	Solids, Percent	EPA 8000C	SOIL		166543
356202	Solids, Percent	EPA 8000C	SOIL		166543
356203	Solids, Percent	EPA 8000C	SOIL		166543
356204	Solids, Percent	EPA 8000C	SOIL		166543
356205	Solids, Percent	EPA 8000C	SOIL		166543
356206	Solids, Percent	EPA 8000C	SOIL		166543
356219	Solids, Percent	EPA 8000C	SOIL		166543

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356219	pH	EPA 9040C	SOIL		166453

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356219	Flashpoint	EPA 1010	SOIL		166449

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356219	Cyanide, Reactive	SW 846 Ch. 7	SOIL		166589

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356219	Sulfide, Reactive	ASTM D4978	SOIL		166583

Metal Parameters

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356218	ICP Metals QSM TCLP 5.0	EPA 6010C	TCLP	74587	166766

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356218	Mercury QSM TCLP	EPA 7470A	TCLP	74586	166905

Organic Parameters

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356218	Pesticides TCLP	EPA 8081B	TCLP	74635	166876

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356164	VOC's by 8260 QSM 5x	EPA 8260C	TRIP BLANK		166500
356190	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356207	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500

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Project Name: LONGHORN
Project #: 10097916
SDG #: 149511

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356208	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356209	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356210	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356211	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356212	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356213	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356214	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356215	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356216	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356217	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356220	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356221	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356223	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356224	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500
356225	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166501
356227	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166501
356228	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166501
356229	VOC's by 8260 QSM 5x	EPA 8260C	TRIP BLANK		166501
356230	VOC's by 8260 QSM 5x	EPA 8260C	TRIP BLANK		166501
356211	VOC's by 8260 QSM 5x	EPA 8260C	GROUND WATER		166500

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356170	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356171	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356172	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356173	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356174	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356175	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356176	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356177	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356178	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356179	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356180	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356181	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356182	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356183	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356184	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356185	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356186	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356187	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356188	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356189	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498

CT LABORATORIES
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Project Name: LONGHORN
Project #: 10097916
SDG #: 149511

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356191	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356192	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356193	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356194	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356195	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356196	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356197	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356198	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356199	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356200	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356201	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356202	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356203	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356204	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356205	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356206	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356173	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356176	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356179	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356184	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356187	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356188	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74482	166497
356189	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356191	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356192	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356193	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356194	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356197	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356198	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356199	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356200	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356201	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356202	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356203	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356204	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356205	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356206	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356191	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498
356205	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	74483	166498

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356218	VOC's by 8260 TCLP 5.0	EPA 8260C	TCLP		167058

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Project Name: LONGHORN
Project #: 10097916
SDG #: 149511

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356218	SVOC 8270 QSM TCLP	EPA 8270D	TCLP	74636	166847

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356214	SVOC 8270 QSM 1,4-Dioxane	EPA 8270D-SIM	GROUND WATER	74516	166715
356215	SVOC 8270 QSM 1,4-Dioxane	EPA 8270D-SIM	GROUND WATER	74516	166715
356217	SVOC 8270 QSM 1,4-Dioxane	EPA 8270D-SIM	GROUND WATER	74516	166715
356222	SVOC 8270 QSM 1,4-Dioxane	EPA 8270D-SIM	GROUND WATER	74516	166715
356223	SVOC 8270 QSM 1,4-Dioxane	EPA 8270D-SIM	GROUND WATER	74516	166715
356226	SVOC 8270 QSM 1,4-Dioxane	EPA 8270D-SIM	GROUND WATER	74516	166715
356227	SVOC 8270 QSM 1,4-Dioxane	EPA 8270D-SIM	GROUND WATER	74516	166715
356228	SVOC 8270 QSM 1,4-Dioxane	EPA 8270D-SIM	GROUND WATER	74516	166715

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
356218	HERBICIDES TCLP	EPA 8151A	TCLP	74634	166947

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CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TCLP	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356218
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	167058	Dilution Factor:	100.00
Date & Time Analyzed:	12/01/2019 / 15:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			11/22/2019 / 09:40
ICAL Calibration #:	W112419.	Concentration Units:	mg/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
75-35-4	1,1-Dichloroethene	0.10	U	0.040	0.10	0.20	0.20
107-06-2	1,2-Dichloroethane	0.060	U	0.024	0.060	0.10	0.10
78-93-3	2-Butanone	0.60	U	0.26	0.60	1.0	1.0
71-43-2	Benzene	0.10	U	0.040	0.10	0.20	0.20
56-23-5	Carbon tetrachloride	0.060	U	0.030	0.060	0.10	0.10
108-90-7	Chlorobenzene	0.060	U	0.030	0.060	0.10	0.10
67-66-3	Chloroform	0.060	U	0.030	0.060	0.10	0.10
127-18-4	Tetrachloroethene	0.060	U	0.027	0.060	0.10	0.10
79-01-6	Trichloroethene	0.060	U	0.030	0.060	0.10	0.10
75-01-4	Vinyl chloride	0.030	U	0.014	0.030	0.060	0.060

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VOLATILE ORGANICS ANALYSIS

Sample Description

47WW25R-35

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356227
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	2000.00
Date & Time Analyzed:	11/15/2019 / 12:42	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	2000	U	800	2000	4000	4000
71-55-6	1,1,1-Trichloroethane	1200	U	580	1200	2000	2000
79-34-5	1,1,2,2-Tetrachloroethane	1200	U M	600	1200	2000	2000
79-00-5	1,1,2-Trichloroethane	1200	U M	600	1200	2000	2000
75-34-3	1,1-Dichloroethane	1200	U	600	1200	2000	2000
75-35-4	1,1-Dichloroethene	2000	U	800	2000	4000	4000
563-58-6	1,1-Dichloropropene	1200	U	600	1200	2000	2000
87-61-6	1,2,3-Trichlorobenzene	1200	U M	460	1200	2000	2000
96-18-4	1,2,3-Trichloropropane	1200	U M	600	1200	2000	2000
120-82-1	1,2,4-Trichlorobenzene	1200	U	560	1200	2000	2000
95-63-6	1,2,4-Trimethylbenzene	1200	U M	580	1200	2000	2000
96-12-8	1,2-Dibromo-3-chloropropane	1200	U	500	1200	2000	2000
106-93-4	1,2-Dibromoethane	1200	U M	600	1200	2000	2000
95-50-1	1,2-Dichlorobenzene	1200	U M,Y	600	1200	2000	2000
107-06-2	1,2-Dichloroethane	1200	U Y	480	1200	2000	2000
78-87-5	1,2-Dichloropropane	1200	U	360	1200	2000	2000
108-67-8	1,3,5-Trimethylbenzene	1200	U M	540	1200	2000	2000
541-73-1	1,3-Dichlorobenzene	1200	U M	520	1200	2000	2000
142-28-9	1,3-Dichloropropane	600	U M	340	600	1200	1200
106-46-7	1,4-Dichlorobenzene	1200	U M	600	1200	2000	2000
594-20-7	2,2-Dichloropropane	1200	U	600	1200	2000	2000
78-93-3	2-Butanone	12000	U M	5200	12000	20000	20000
95-49-8	2-Chlorotoluene	1200	U M	500	1200	2000	2000
591-78-6	2-Hexanone	12000	U M	6000	12000	20000	20000

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VOLATILE ORGANICS ANALYSIS

Sample Description

47WW25R-35

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356227
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	2000.00
Date & Time Analyzed:	11/15/2019 / 12:42	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1200	U M	600	1200	2000	2000
108-10-1	4-Methyl-2-pentanone	12000	U M	4400	12000	20000	20000
67-64-1	Acetone	20000	U	8000	20000	40000	40000
71-43-2	Benzene	2000	U M	800	2000	4000	4000
108-86-1	Bromobenzene	2000	U	800	2000	4000	4000
74-97-5	Bromochloromethane	1200	U	600	1200	2000	2000
75-27-4	Bromodichloromethane	1200	U	580	1200	2000	2000
75-25-2	Bromoform	2000	U	800	2000	4000	4000
74-83-9	Bromomethane	4000	U	1800	4000	8000	8000
75-15-0	Carbon disulfide	4000	U	1200	4000	8000	8000
56-23-5	Carbon tetrachloride	1200	U	600	1200	2000	2000
108-90-7	Chlorobenzene	1200	U M	600	1200	2000	2000
75-00-3	Chloroethane	2000	U	1000	2000	4000	4000
67-66-3	Chloroform	1200	U	600	1200	2000	2000
74-87-3	Chloromethane	2000	U	1200	2000	4000	4000
156-59-2	cis-1,2-Dichloroethene	2100	Y,M	600	1200	2000	2000
10061-01-5	cis-1,3-Dichloropropene	600	U	320	600	1200	1200
124-48-1	Dibromochloromethane	1200	U	600	1200	2000	2000
74-95-3	Dibromomethane	1200	U	440	1200	2000	2000
75-71-8	Dichlorodifluoromethane	2000	U	800	2000	4000	4000
100-41-4	Ethylbenzene	1200	U M	600	1200	2000	2000
76-13-1	Freon 113	4000	U	1400	4000	8000	8000
87-68-3	Hexachlorobutadiene	2000	U	800	2000	4000	4000
98-82-8	Isopropylbenzene	1200	U	600	1200	2000	2000

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VOLATILE ORGANICS ANALYSIS

Sample Description

47WW25R-35

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356227
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	2000.00
Date & Time Analyzed:	11/15/2019 / 12:42	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2400	U M	1400	2400	4000	4000
75-09-2	Methylene chloride	2000	U	800	2000	4000	4000
91-20-3	Naphthalene	1200	U M	600	1200	2000	2000
104-51-8	n-Butylbenzene	1200	U M,Z	580	1200	2000	2000
103-65-1	n-Propylbenzene	1200	U M	600	1200	2000	2000
95-47-6	o-Xylene	1200	U	520	1200	2000	2000
99-87-6	p-Isopropyltoluene	1200	U M	600	1200	2000	2000
135-98-8	sec-Butylbenzene	2000	U M,Z	800	2000	4000	4000
100-42-5	Styrene	1200	U M	580	1200	2000	2000
98-06-6	tert-Butylbenzene	2000	U M	800	2000	4000	4000
127-18-4	Tetrachloroethene	1200	U	540	1200	2000	2000
108-88-3	Toluene	1200	U	420	1200	2000	2000
156-60-5	trans-1,2-Dichloroethene	1200	U	600	1200	2000	2000
10061-02-6	trans-1,3-Dichloropropene	1200	U	460	1200	2000	2000
79-01-6	Trichloroethene	130000		600	1200	2000	2000
75-69-4	Trichlorofluoromethane	2000	U	800	2000	4000	4000
108-05-4	Vinyl acetate	20000	U	10000	20000	40000	40000
75-01-4	Vinyl chloride	600	U	280	600	1200	1200

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VOLATILE ORGANICS ANALYSIS

Sample Description

47WW25R-38

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356228
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	2000.00
Date & Time Analyzed:	11/15/2019 / 13:11	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	2000	U	800	2000	4000	4000
71-55-6	1,1,1-Trichloroethane	1200	U	580	1200	2000	2000
79-34-5	1,1,2,2-Tetrachloroethane	1200	U	600	1200	2000	2000
79-00-5	1,1,2-Trichloroethane	1200	U	600	1200	2000	2000
75-34-3	1,1-Dichloroethane	1200	U	600	1200	2000	2000
75-35-4	1,1-Dichloroethene	2000	U	800	2000	4000	4000
563-58-6	1,1-Dichloropropene	1200	U	600	1200	2000	2000
87-61-6	1,2,3-Trichlorobenzene	1200	U	460	1200	2000	2000
96-18-4	1,2,3-Trichloropropane	1200	U	600	1200	2000	2000
120-82-1	1,2,4-Trichlorobenzene	1200	U	560	1200	2000	2000
95-63-6	1,2,4-Trimethylbenzene	1200	U	580	1200	2000	2000
96-12-8	1,2-Dibromo-3-chloropropane	1200	U	500	1200	2000	2000
106-93-4	1,2-Dibromoethane	1200	U	600	1200	2000	2000
95-50-1	1,2-Dichlorobenzene	1200	U	600	1200	2000	2000
107-06-2	1,2-Dichloroethane	1200	U	480	1200	2000	2000
78-87-5	1,2-Dichloropropane	1200	U	360	1200	2000	2000
108-67-8	1,3,5-Trimethylbenzene	1200	U	540	1200	2000	2000
541-73-1	1,3-Dichlorobenzene	1200	U	520	1200	2000	2000
142-28-9	1,3-Dichloropropane	600	U	340	600	1200	1200
106-46-7	1,4-Dichlorobenzene	1200	U	600	1200	2000	2000
594-20-7	2,2-Dichloropropane	1200	U	600	1200	2000	2000
78-93-3	2-Butanone	12000	U	5200	12000	20000	20000
95-49-8	2-Chlorotoluene	1200	U	500	1200	2000	2000
591-78-6	2-Hexanone	12000	U	6000	12000	20000	20000

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VOLATILE ORGANICS ANALYSIS

Sample Description

47WW25R-38

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356228
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	2000.00
Date & Time Analyzed:	11/15/2019 / 13:11	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1200	U	600	1200	2000	2000
108-10-1	4-Methyl-2-pentanone	12000	U	4400	12000	20000	20000
67-64-1	Acetone	20000	U	8000	20000	40000	40000
71-43-2	Benzene	2000	U	800	2000	4000	4000
108-86-1	Bromobenzene	2000	U	800	2000	4000	4000
74-97-5	Bromochloromethane	1200	U	600	1200	2000	2000
75-27-4	Bromodichloromethane	1200	U	580	1200	2000	2000
75-25-2	Bromoform	2000	U	800	2000	4000	4000
74-83-9	Bromomethane	4000	U	1800	4000	8000	8000
75-15-0	Carbon disulfide	4000	U	1200	4000	8000	8000
56-23-5	Carbon tetrachloride	1200	U	600	1200	2000	2000
108-90-7	Chlorobenzene	1200	U	600	1200	2000	2000
75-00-3	Chloroethane	2000	U	1000	2000	4000	4000
67-66-3	Chloroform	1200	U	600	1200	2000	2000
74-87-3	Chloromethane	2000	U	1200	2000	4000	4000
156-59-2	cis-1,2-Dichloroethene	2600		600	1200	2000	2000
10061-01-5	cis-1,3-Dichloropropene	600	U	320	600	1200	1200
124-48-1	Dibromochloromethane	1200	U	600	1200	2000	2000
74-95-3	Dibromomethane	1200	U	440	1200	2000	2000
75-71-8	Dichlorodifluoromethane	2000	U	800	2000	4000	4000
100-41-4	Ethylbenzene	1200	U	600	1200	2000	2000
76-13-1	Freon 113	4000	U	1400	4000	8000	8000
87-68-3	Hexachlorobutadiene	2000	U	800	2000	4000	4000
98-82-8	Isopropylbenzene	1200	U	600	1200	2000	2000

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VOLATILE ORGANICS ANALYSIS

Sample Description

47WW25R-38

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356228
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	2000.00
Date & Time Analyzed:	11/15/2019 / 13:11	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2400	U	1400	2400	4000	4000
75-09-2	Methylene chloride	2000	U	800	2000	4000	4000
91-20-3	Naphthalene	1200	U	600	1200	2000	2000
104-51-8	n-Butylbenzene	1200	U Z	580	1200	2000	2000
103-65-1	n-Propylbenzene	1200	U	600	1200	2000	2000
95-47-6	o-Xylene	1200	U	520	1200	2000	2000
99-87-6	p-Isopropyltoluene	1200	U	600	1200	2000	2000
135-98-8	sec-Butylbenzene	2000	U Z	800	2000	4000	4000
100-42-5	Styrene	1200	U	580	1200	2000	2000
98-06-6	tert-Butylbenzene	2000	U	800	2000	4000	4000
127-18-4	Tetrachloroethene	1200	U	540	1200	2000	2000
108-88-3	Toluene	1200	U	420	1200	2000	2000
156-60-5	trans-1,2-Dichloroethene	1200	U	600	1200	2000	2000
10061-02-6	trans-1,3-Dichloropropene	1200	U	460	1200	2000	2000
79-01-6	Trichloroethene	140000		600	1200	2000	2000
75-69-4	Trichlorofluoromethane	2000	U	800	2000	4000	4000
108-05-4	Vinyl acetate	20000	U	10000	20000	40000	40000
75-01-4	Vinyl chloride	600	U	280	600	1200	1200

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

47WW37

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356224
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	10.00
Date & Time Analyzed:	11/14/2019 / 22:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	10	U	4.0	10	20	20
71-55-6	1,1,1-Trichloroethane	6.0	U	2.9	6.0	10	10
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U	3.0	6.0	10	10
79-00-5	1,1,2-Trichloroethane	6.0	U	3.0	6.0	10	10
75-34-3	1,1-Dichloroethane	6.0	U	3.0	6.0	10	10
75-35-4	1,1-Dichloroethene	10	U	4.0	10	20	20
563-58-6	1,1-Dichloropropene	6.0	U	3.0	6.0	10	10
87-61-6	1,2,3-Trichlorobenzene	6.0	U	2.3	6.0	10	10
96-18-4	1,2,3-Trichloropropane	6.0	U	3.0	6.0	10	10
120-82-1	1,2,4-Trichlorobenzene	6.0	U	2.8	6.0	10	10
95-63-6	1,2,4-Trimethylbenzene	6.0	U	2.9	6.0	10	10
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U	2.5	6.0	10	10
106-93-4	1,2-Dibromoethane	6.0	U	3.0	6.0	10	10
95-50-1	1,2-Dichlorobenzene	6.0	U	3.0	6.0	10	10
107-06-2	1,2-Dichloroethane	6.0	U	2.4	6.0	10	10
78-87-5	1,2-Dichloropropane	6.0	U	1.8	6.0	10	10
108-67-8	1,3,5-Trimethylbenzene	6.0	U	2.7	6.0	10	10
541-73-1	1,3-Dichlorobenzene	6.0	U	2.6	6.0	10	10
142-28-9	1,3-Dichloropropane	3.0	U	1.7	3.0	6.0	6.0
106-46-7	1,4-Dichlorobenzene	6.0	U	3.0	6.0	10	10
594-20-7	2,2-Dichloropropane	6.0	U	3.0	6.0	10	10
78-93-3	2-Butanone	60	U	26	60	100	100
95-49-8	2-Chlorotoluene	6.0	U	2.5	6.0	10	10
591-78-6	2-Hexanone	60	U	30	60	100	100

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

47WW37

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356224
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	10.00
Date & Time Analyzed:	11/14/2019 / 22:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	6.0	U	3.0	6.0	10	10
108-10-1	4-Methyl-2-pentanone	60	U	22	60	100	100
67-64-1	Acetone	100	U	40	100	200	200
71-43-2	Benzene	10	U	4.0	10	20	20
108-86-1	Bromobenzene	10	U	4.0	10	20	20
74-97-5	Bromochloromethane	6.0	U	3.0	6.0	10	10
75-27-4	Bromodichloromethane	6.0	U	2.9	6.0	10	10
75-25-2	Bromoform	10	U	4.0	10	20	20
74-83-9	Bromomethane	20	U	9.0	20	40	40
75-15-0	Carbon disulfide	20	U	6.0	20	40	40
56-23-5	Carbon tetrachloride	6.0	U	3.0	6.0	10	10
108-90-7	Chlorobenzene	6.0	U	3.0	6.0	10	10
75-00-3	Chloroethane	10	U	5.0	10	20	20
67-66-3	Chloroform	6.0	U	3.0	6.0	10	10
74-87-3	Chloromethane	10	U	6.0	10	20	20
156-59-2	cis-1,2-Dichloroethene	13		3.0	6.0	10	10
10061-01-5	cis-1,3-Dichloropropene	3.0	U	1.6	3.0	6.0	6.0
124-48-1	Dibromochloromethane	6.0	U	3.0	6.0	10	10
74-95-3	Dibromomethane	6.0	U	2.2	6.0	10	10
75-71-8	Dichlorodifluoromethane	10	U	4.0	10	20	20
100-41-4	Ethylbenzene	6.0	U	3.0	6.0	10	10
76-13-1	Freon 113	20	U	7.0	20	40	40
87-68-3	Hexachlorobutadiene	10	U	4.0	10	20	20
98-82-8	Isopropylbenzene	6.0	U	3.0	6.0	10	10

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

47WW37

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356224
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	10.00
Date & Time Analyzed:	11/14/2019 / 22:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	12	U	7.0	12	20	20
75-09-2	Methylene chloride	6.1	J	4.0	10	20	20
91-20-3	Naphthalene	6.0	U	3.0	6.0	10	10
104-51-8	n-Butylbenzene	6.0	U	2.9	6.0	10	10
103-65-1	n-Propylbenzene	6.0	U	3.0	6.0	10	10
95-47-6	o-Xylene	6.0	U	2.6	6.0	10	10
99-87-6	p-Isopropyltoluene	6.0	U	3.0	6.0	10	10
135-98-8	sec-Butylbenzene	10	U Z	4.0	10	20	20
100-42-5	Styrene	6.0	U	2.9	6.0	10	10
98-06-6	tert-Butylbenzene	10	U	4.0	10	20	20
127-18-4	Tetrachloroethene	6.0	U	2.7	6.0	10	10
108-88-3	Toluene	6.0	U	2.1	6.0	10	10
156-60-5	trans-1,2-Dichloroethene	6.0	U	3.0	6.0	10	10
10061-02-6	trans-1,3-Dichloropropene	6.0	U	2.3	6.0	10	10
79-01-6	Trichloroethene	190		3.0	6.0	10	10
75-69-4	Trichlorofluoromethane	10	U	4.0	10	20	20
108-05-4	Vinyl acetate	100	U	50	100	200	200
75-01-4	Vinyl chloride	3.0	U	1.4	3.0	6.0	6.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356214
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	20.00
Date & Time Analyzed:	11/14/2019 / 20:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	20	U	8.0	20	40	40
71-55-6	1,1,1-Trichloroethane	12	U	5.8	12	20	20
79-34-5	1,1,2,2-Tetrachloroethane	12	U	6.0	12	20	20
79-00-5	1,1,2-Trichloroethane	12	U	6.0	12	20	20
75-34-3	1,1-Dichloroethane	12	U	6.0	12	20	20
75-35-4	1,1-Dichloroethene	20	U	8.0	20	40	40
563-58-6	1,1-Dichloropropene	12	U	6.0	12	20	20
87-61-6	1,2,3-Trichlorobenzene	12	U	4.6	12	20	20
96-18-4	1,2,3-Trichloropropane	12	U	6.0	12	20	20
120-82-1	1,2,4-Trichlorobenzene	12	U	5.6	12	20	20
95-63-6	1,2,4-Trimethylbenzene	12	U	5.8	12	20	20
96-12-8	1,2-Dibromo-3-chloropropane	12	U	5.0	12	20	20
106-93-4	1,2-Dibromoethane	12	U	6.0	12	20	20
95-50-1	1,2-Dichlorobenzene	12	U	6.0	12	20	20
107-06-2	1,2-Dichloroethane	12	U	4.8	12	20	20
78-87-5	1,2-Dichloropropane	12	U	3.6	12	20	20
108-67-8	1,3,5-Trimethylbenzene	12	U	5.4	12	20	20
541-73-1	1,3-Dichlorobenzene	12	U	5.2	12	20	20
142-28-9	1,3-Dichloropropane	6.0	U	3.4	6.0	12	12
106-46-7	1,4-Dichlorobenzene	12	U	6.0	12	20	20
594-20-7	2,2-Dichloropropane	12	U	6.0	12	20	20
78-93-3	2-Butanone	120	U	52	120	200	200
95-49-8	2-Chlorotoluene	12	U	5.0	12	20	20
591-78-6	2-Hexanone	120	U	60	120	200	200

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356214
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	20.00
Date & Time Analyzed:	11/14/2019 / 20:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	12	U	6.0	12	20	20
108-10-1	4-Methyl-2-pentanone	120	U	44	120	200	200
67-64-1	Acetone	200	U	80	200	400	400
71-43-2	Benzene	20	U	8.0	20	40	40
108-86-1	Bromobenzene	20	U	8.0	20	40	40
74-97-5	Bromochloromethane	12	U	6.0	12	20	20
75-27-4	Bromodichloromethane	12	U	5.8	12	20	20
75-25-2	Bromoform	20	U	8.0	20	40	40
74-83-9	Bromomethane	40	U	18	40	80	80
75-15-0	Carbon disulfide	40	U	12	40	80	80
56-23-5	Carbon tetrachloride	12	U	6.0	12	20	20
108-90-7	Chlorobenzene	12	U	6.0	12	20	20
75-00-3	Chloroethane	20	U	10	20	40	40
67-66-3	Chloroform	12	U	6.0	12	20	20
74-87-3	Chloromethane	20	U	12	20	40	40
156-59-2	cis-1,2-Dichloroethene	12	U	6.0	12	20	20
10061-01-5	cis-1,3-Dichloropropene	6.0	U	3.2	6.0	12	12
124-48-1	Dibromochloromethane	12	U	6.0	12	20	20
74-95-3	Dibromomethane	12	U	4.4	12	20	20
75-71-8	Dichlorodifluoromethane	20	U	8.0	20	40	40
100-41-4	Ethylbenzene	12	U	6.0	12	20	20
76-13-1	Freon 113	40	U	14	40	80	80
87-68-3	Hexachlorobutadiene	20	U	8.0	20	40	40
98-82-8	Isopropylbenzene	12	U	6.0	12	20	20

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356214
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	20.00
Date & Time Analyzed:	11/14/2019 / 20:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	24	U	14	24	40	40
75-09-2	Methylene chloride	20	U	8.0	20	40	40
91-20-3	Naphthalene	12	U	6.0	12	20	20
104-51-8	n-Butylbenzene	12	U	5.8	12	20	20
103-65-1	n-Propylbenzene	12	U	6.0	12	20	20
95-47-6	o-Xylene	12	U	5.2	12	20	20
99-87-6	p-Isopropyltoluene	12	U	6.0	12	20	20
135-98-8	sec-Butylbenzene	20	U Z	8.0	20	40	40
100-42-5	Styrene	12	U	5.8	12	20	20
98-06-6	tert-Butylbenzene	20	U	8.0	20	40	40
127-18-4	Tetrachloroethene	12	U	5.4	12	20	20
108-88-3	Toluene	12	U	4.2	12	20	20
156-60-5	trans-1,2-Dichloroethene	12	U	6.0	12	20	20
10061-02-6	trans-1,3-Dichloropropene	12	U	4.6	12	20	20
79-01-6	Trichloroethene	430		6.0	12	20	20
75-69-4	Trichlorofluoromethane	20	U	8.0	20	40	40
108-05-4	Vinyl acetate	200	U	100	200	400	400
75-01-4	Vinyl chloride	6.0	U	2.8	6.0	12	12

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.71 (g/mL)	CTL Sample ID:	356176
% Solids:	80.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	5.00
Date & Time Analyzed:	11/19/2019 / 11:55	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	11800		94	250	9.9	500

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.71 (g/mL)	CTL Sample ID:	356176
% Solids:	80.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 21:40	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.33	1.1	2.2	2.2
71-55-6	1,1,1-Trichloroethane	1.1	U	0.33	1.1	2.2	2.2
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.55	1.1	2.2	2.2
79-00-5	1,1,2-Trichloroethane	1.1	U	0.44	1.1	2.2	2.2
75-34-3	1,1-Dichloroethane	1.1	U	0.44	1.1	2.2	2.2
75-35-4	1,1-Dichloroethene	4.93		0.44	1.1	2.2	2.2
563-58-6	1,1-Dichloropropene	1.1	U	0.44	1.1	2.2	2.2
87-61-6	1,2,3-Trichlorobenzene	2.2	U	0.99	2.2	4.4	4.4
96-18-4	1,2,3-Trichloropropane	1.1	U	0.55	1.1	2.2	2.2
120-82-1	1,2,4-Trichlorobenzene	2.2	U	0.99	2.2	4.4	4.4
95-63-6	1,2,4-Trimethylbenzene	2.2	U	0.88	2.2	4.4	4.4
96-12-8	1,2-Dibromo-3-chloropropane	2.2	U	1.4	2.2	4.4	4.4
106-93-4	1,2-Dibromoethane	1.1	U	0.44	1.1	2.2	2.2
95-50-1	1,2-Dichlorobenzene	2.2	U	0.99	2.2	4.4	4.4
107-06-2	1,2-Dichloroethane	1.1	U	0.55	1.1	2.2	2.2
78-87-5	1,2-Dichloropropane	1.1	U	0.44	1.1	2.2	2.2
108-67-8	1,3,5-Trimethylbenzene	2.2	U	0.99	2.2	4.4	4.4
541-73-1	1,3-Dichlorobenzene	2.2	U	0.99	2.2	4.4	4.4
142-28-9	1,3-Dichloropropane	1.1	U	0.44	1.1	2.2	2.2
106-46-7	1,4-Dichlorobenzene	2.2	U	0.99	2.2	4.4	4.4
594-20-7	2,2-Dichloropropane	1.1	U	0.44	1.1	2.2	2.2
78-93-3	2-Butanone	22	U	11	22	44	44
95-49-8	2-Chlorotoluene	2.2	U	1.1	2.2	4.4	4.4
591-78-6	2-Hexanone	22	U	12	22	44	44

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.71 (g/mL)	CTL Sample ID:	356176
% Solids:	80.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 21:40	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.2	U	0.99	2.2	4.4	4.4
108-10-1	4-Methyl-2-pentanone	22	U	11	22	44	44
67-64-1	Acetone	22	U	11	22	44	44
71-43-2	Benzene	1.1	U	0.33	1.1	2.2	2.2
108-86-1	Bromobenzene	1.1	U	0.55	1.1	2.2	2.2
74-97-5	Bromochloromethane	1.1	U	0.44	1.1	2.2	2.2
75-27-4	Bromodichloromethane	1.1	U	0.44	1.1	2.2	2.2
75-25-2	Bromoform	1.1	U	0.44	1.1	2.2	2.2
74-83-9	Bromomethane	2.2	U	0.77	2.2	4.4	4.4
75-15-0	Carbon disulfide	2.2	U	0.99	2.2	4.4	4.4
56-23-5	Carbon tetrachloride	1.1	U	0.33	1.1	2.2	2.2
108-90-7	Chlorobenzene	1.1	U	0.44	1.1	2.2	2.2
75-00-3	Chloroethane	1.1	U	0.55	1.1	2.2	2.2
67-66-3	Chloroform	1.1	U	0.44	1.1	2.2	2.2
74-87-3	Chloromethane	1.1	U	0.44	1.1	2.2	2.2
156-59-2	cis-1,2-Dichloroethene	73.8		0.44	1.1	2.2	2.2
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.33	1.1	2.2	2.2
124-48-1	Dibromochloromethane	1.1	U	0.44	1.1	2.2	2.2
74-95-3	Dibromomethane	1.1	U	0.44	1.1	2.2	2.2
75-71-8	Dichlorodifluoromethane	2.2	U	1.1	2.2	4.4	4.4
100-41-4	Ethylbenzene	1.1	U	0.44	1.1	2.2	2.2
76-13-1	Freon 113	2.2	U	1.1	2.2	4.4	4.4
87-68-3	Hexachlorobutadiene	2.2	U	1.1	2.2	4.4	4.4
98-82-8	Isopropylbenzene	1.1	U	0.33	1.1	2.2	2.2

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.71 (g/mL)	CTL Sample ID:	356176
% Solids:	80.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 21:40	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.2	U	0.77	2.2	4.4	4.4
75-09-2	Methylene chloride	2.2	U	1.9	2.2	4.4	4.4
91-20-3	Naphthalene	2.2	U	1.1	2.2	4.4	4.4
104-51-8	n-Butylbenzene	2.2	U	0.99	2.2	4.4	4.4
103-65-1	n-Propylbenzene	2.2	U	0.99	2.2	4.4	4.4
95-47-6	o-Xylene	1.1	U	0.44	1.1	2.2	2.2
99-87-6	p-Isopropyltoluene	2.2	U	1.1	2.2	4.4	4.4
135-98-8	sec-Butylbenzene	2.2	U	0.99	2.2	4.4	4.4
100-42-5	Styrene	1.1	U	0.33	1.1	2.2	2.2
98-06-6	tert-Butylbenzene	2.2	U	0.99	2.2	4.4	4.4
127-18-4	Tetrachloroethene	1.1	U	0.44	1.1	2.2	2.2
108-88-3	Toluene	1.1	U	0.44	1.1	2.2	2.2
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.44	1.1	2.2	2.2
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.44	1.1	2.2	2.2
75-69-4	Trichlorofluoromethane	1.1	U	0.55	1.1	2.2	2.2
108-05-4	Vinyl acetate	22	U	13	22	44	44
75-01-4	Vinyl chloride	0.985	J	0.55	1.1	2.2	2.2

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.91 (g/mL)	CTL Sample ID:	356177
% Solids:	83.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 12:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	1.0	U	0.30	1.0	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.51	1.0	2.0	2.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.40	1.0	2.0	2.0
75-34-3	1,1-Dichloroethane	1.0	U	0.40	1.0	2.0	2.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	1.0	U	0.40	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.91	2.0	4.0	4.0
96-18-4	1,2,3-Trichloropropane	1.0	U	0.51	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.91	2.0	4.0	4.0
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.81	2.0	4.0	4.0
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.0	4.0
106-93-4	1,2-Dibromoethane	1.0	U	0.40	1.0	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.91	2.0	4.0	4.0
107-06-2	1,2-Dichloroethane	1.0	U	0.51	1.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.91	2.0	4.0	4.0
541-73-1	1,3-Dichlorobenzene	2.0	U	0.91	2.0	4.0	4.0
142-28-9	1,3-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.91	2.0	4.0	4.0
594-20-7	2,2-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
78-93-3	2-Butanone	20	U	10	20	40	40
95-49-8	2-Chlorotoluene	2.0	U	1.0	2.0	4.0	4.0
591-78-6	2-Hexanone	20	U	11	20	40	40

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.91 (g/mL)	CTL Sample ID:	356177
% Solids:	83.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 12:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.0	U	0.91	2.0	4.0	4.0
108-10-1	4-Methyl-2-pentanone	20	U	10	20	40	40
67-64-1	Acetone	19.5	J	10	20	40	40
71-43-2	Benzene	1.0	U	0.30	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.51	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.40	1.0	2.0	2.0
75-27-4	Bromodichloromethane	1.0	U	0.40	1.0	2.0	2.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U Z	0.71	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.91	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	1.0	U	0.30	1.0	2.0	2.0
108-90-7	Chlorobenzene	1.0	U	0.40	1.0	2.0	2.0
75-00-3	Chloroethane	1.0	U	0.51	1.0	2.0	2.0
67-66-3	Chloroform	1.0	U	0.40	1.0	2.0	2.0
74-87-3	Chloromethane	1.0	U	0.40	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.30	1.0	2.0	2.0
124-48-1	Dibromochloromethane	1.0	U	0.40	1.0	2.0	2.0
74-95-3	Dibromomethane	1.0	U	0.40	1.0	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U Z	1.0	2.0	4.0	4.0
100-41-4	Ethylbenzene	1.0	U	0.40	1.0	2.0	2.0
76-13-1	Freon 113	2.0	U	1.0	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	2.0	U	1.0	2.0	4.0	4.0
98-82-8	Isopropylbenzene	1.0	U	0.30	1.0	2.0	2.0

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.91 (g/mL)	CTL Sample ID:	356177
% Solids:	83.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 12:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.0	U	0.71	2.0	4.0	4.0
75-09-2	Methylene chloride	2.0	U Z	1.7	2.0	4.0	4.0
91-20-3	Naphthalene	2.0	U	1.0	2.0	4.0	4.0
104-51-8	n-Butylbenzene	2.0	U	0.91	2.0	4.0	4.0
103-65-1	n-Propylbenzene	2.0	U	0.91	2.0	4.0	4.0
95-47-6	o-Xylene	1.0	U	0.40	1.0	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	1.0	2.0	4.0	4.0
135-98-8	sec-Butylbenzene	2.0	U	0.91	2.0	4.0	4.0
100-42-5	Styrene	1.0	U	0.30	1.0	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.91	2.0	4.0	4.0
127-18-4	Tetrachloroethene	1.0	U	0.40	1.0	2.0	2.0
108-88-3	Toluene	1.0	U	0.40	1.0	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.40	1.0	2.0	2.0
79-01-6	Trichloroethene	1.62	J	0.30	1.0	2.0	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.51	1.0	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	40	40
75-01-4	Vinyl chloride	1.0	U	0.51	1.0	2.0	2.0

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001 (38-39)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.85 (g/mL)	CTL Sample ID:	356178
% Solids:	81.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 12:41	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.53	1.1	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-34-3	1,1-Dichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-35-4	1,1-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
563-58-6	1,1-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
96-18-4	1,2,3-Trichloropropane	1.1	U	0.53	1.1	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.84	2.1	4.2	4.2
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.4	2.1	4.2	4.2
106-93-4	1,2-Dibromoethane	1.1	U	0.42	1.1	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
107-06-2	1,2-Dichloroethane	1.1	U	0.53	1.1	2.1	2.1
78-87-5	1,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.95	2.1	4.2	4.2
541-73-1	1,3-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
142-28-9	1,3-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
594-20-7	2,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
78-93-3	2-Butanone	21	U	11	21	42	42
95-49-8	2-Chlorotoluene	2.1	U	1.1	2.1	4.2	4.2
591-78-6	2-Hexanone	21	U	12	21	42	42

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001 (38-39)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.85 (g/mL)	CTL Sample ID:	356178
% Solids:	81.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 12:41	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.1	U	0.95	2.1	4.2	4.2
108-10-1	4-Methyl-2-pentanone	21	U	11	21	42	42
67-64-1	Acetone	21	U	11	21	42	42
71-43-2	Benzene	1.1	U	0.32	1.1	2.1	2.1
108-86-1	Bromobenzene	1.1	U	0.53	1.1	2.1	2.1
74-97-5	Bromochloromethane	1.1	U	0.42	1.1	2.1	2.1
75-27-4	Bromodichloromethane	1.1	U	0.42	1.1	2.1	2.1
75-25-2	Bromoform	1.1	U	0.42	1.1	2.1	2.1
74-83-9	Bromomethane	2.1	U Z	0.74	2.1	4.2	4.2
75-15-0	Carbon disulfide	2.1	U	0.95	2.1	4.2	4.2
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.1	2.1
108-90-7	Chlorobenzene	1.1	U	0.42	1.1	2.1	2.1
75-00-3	Chloroethane	1.1	U	0.53	1.1	2.1	2.1
67-66-3	Chloroform	1.1	U	0.42	1.1	2.1	2.1
74-87-3	Chloromethane	1.1	U	0.42	1.1	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.1	2.1
124-48-1	Dibromochloromethane	1.1	U	0.42	1.1	2.1	2.1
74-95-3	Dibromomethane	1.1	U	0.42	1.1	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U Z	1.1	2.1	4.2	4.2
100-41-4	Ethylbenzene	1.1	U	0.42	1.1	2.1	2.1
76-13-1	Freon 113	2.1	U	1.1	2.1	4.2	4.2
87-68-3	Hexachlorobutadiene	2.1	U	1.1	2.1	4.2	4.2
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001 (38-39)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.85 (g/mL)	CTL Sample ID:	356178
% Solids:	81.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 12:41	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.1	U	0.74	2.1	4.2	4.2
75-09-2	Methylene chloride	2.1	U Z	1.8	2.1	4.2	4.2
91-20-3	Naphthalene	2.1	U	1.1	2.1	4.2	4.2
104-51-8	n-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
103-65-1	n-Propylbenzene	2.1	U	0.95	2.1	4.2	4.2
95-47-6	o-Xylene	1.1	U	0.42	1.1	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.1	2.1	4.2	4.2
135-98-8	sec-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
100-42-5	Styrene	1.1	U	0.32	1.1	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
127-18-4	Tetrachloroethene	1.1	U	0.42	1.1	2.1	2.1
108-88-3	Toluene	1.1	U	0.42	1.1	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
79-01-6	Trichloroethene	1.1	U	0.32	1.1	2.1	2.1
75-69-4	Trichlorofluoromethane	1.1	U	0.53	1.1	2.1	2.1
108-05-4	Vinyl acetate	21	U	13	21	42	42
75-01-4	Vinyl chloride	1.1	U	0.53	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356207
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 16:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.40	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.60	U	0.29	0.60	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.30	0.60	1.0	1.0
79-00-5	1,1,2-Trichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-34-3	1,1-Dichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	0.60	U	0.30	0.60	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.23	0.60	1.0	1.0
96-18-4	1,2,3-Trichloropropane	0.60	U	0.30	0.60	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	0.60	U	0.28	0.60	1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	0.60	U	0.29	0.60	1.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U	0.25	0.60	1.0	1.0
106-93-4	1,2-Dibromoethane	0.60	U	0.30	0.60	1.0	1.0
95-50-1	1,2-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
107-06-2	1,2-Dichloroethane	0.60	U	0.24	0.60	1.0	1.0
78-87-5	1,2-Dichloropropane	0.60	U	0.18	0.60	1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	0.60	U	0.27	0.60	1.0	1.0
541-73-1	1,3-Dichlorobenzene	0.60	U	0.26	0.60	1.0	1.0
142-28-9	1,3-Dichloropropane	0.30	U	0.17	0.30	0.60	0.60
106-46-7	1,4-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
594-20-7	2,2-Dichloropropane	0.60	U	0.30	0.60	1.0	1.0
78-93-3	2-Butanone	6.0	U	2.6	6.0	10	10
95-49-8	2-Chlorotoluene	0.60	U	0.25	0.60	1.0	1.0
591-78-6	2-Hexanone	6.0	U	3.0	6.0	10	10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356207
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 16:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	0.60	U	0.30	0.60	1.0	1.0
108-10-1	4-Methyl-2-pentanone	6.0	U	2.2	6.0	10	10
67-64-1	Acetone	10	U	4.0	10	20	20
71-43-2	Benzene	1.0	U	0.40	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.40	1.0	2.0	2.0
74-97-5	Bromochloromethane	0.60	U	0.30	0.60	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.90	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.60	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.60	U	0.30	0.60	1.0	1.0
108-90-7	Chlorobenzene	0.60	U	0.30	0.60	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	0.60	U	0.30	0.60	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.60	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.99	J	0.30	0.60	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	0.30	U	0.16	0.30	0.60	0.60
124-48-1	Dibromochloromethane	0.60	U	0.30	0.60	1.0	1.0
74-95-3	Dibromomethane	0.60	U	0.22	0.60	1.0	1.0
75-71-8	Dichlorodifluoromethane	1.0	U	0.40	1.0	2.0	2.0
100-41-4	Ethylbenzene	0.60	U	0.30	0.60	1.0	1.0
76-13-1	Freon 113	2.0	U	0.70	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	1.0	U	0.40	1.0	2.0	2.0
98-82-8	Isopropylbenzene	0.60	U	0.30	0.60	1.0	1.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356207
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 16:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.2	U	0.70	1.2	2.0	2.0
75-09-2	Methylene chloride	1.0	U	0.40	1.0	2.0	2.0
91-20-3	Naphthalene	0.60	U	0.30	0.60	1.0	1.0
104-51-8	n-Butylbenzene	0.60	U M	0.29	0.60	1.0	1.0
103-65-1	n-Propylbenzene	0.60	U	0.30	0.60	1.0	1.0
95-47-6	o-Xylene	0.60	U	0.26	0.60	1.0	1.0
99-87-6	p-Isopropyltoluene	0.60	U	0.30	0.60	1.0	1.0
135-98-8	sec-Butylbenzene	1.0	U M,Z	0.40	1.0	2.0	2.0
100-42-5	Styrene	0.60	U	0.29	0.60	1.0	1.0
98-06-6	tert-Butylbenzene	1.0	U	0.40	1.0	2.0	2.0
127-18-4	Tetrachloroethene	0.60	U	0.27	0.60	1.0	1.0
108-88-3	Toluene	0.71	J	0.21	0.60	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	0.60	U	0.23	0.60	1.0	1.0
79-01-6	Trichloroethene	29	M,Y	0.30	0.60	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.40	1.0	2.0	2.0
108-05-4	Vinyl acetate	10	U	5.0	10	20	20
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002 (26-27)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.78 (g/mL)	CTL Sample ID:	356170
% Solids:	93.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 18:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.34	1.1	2.2	2.2
71-55-6	1,1,1-Trichloroethane	1.1	U	0.34	1.1	2.2	2.2
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.56	1.1	2.2	2.2
79-00-5	1,1,2-Trichloroethane	1.1	U	0.45	1.1	2.2	2.2
75-34-3	1,1-Dichloroethane	1.1	U	0.45	1.1	2.2	2.2
75-35-4	1,1-Dichloroethene	1.1	U	0.45	1.1	2.2	2.2
563-58-6	1,1-Dichloropropene	1.1	U	0.45	1.1	2.2	2.2
87-61-6	1,2,3-Trichlorobenzene	2.2	U	1.0	2.2	4.5	4.5
96-18-4	1,2,3-Trichloropropane	1.1	U	0.56	1.1	2.2	2.2
120-82-1	1,2,4-Trichlorobenzene	2.2	U	1.0	2.2	4.5	4.5
95-63-6	1,2,4-Trimethylbenzene	2.2	U	0.90	2.2	4.5	4.5
96-12-8	1,2-Dibromo-3-chloropropane	2.2	U	1.5	2.2	4.5	4.5
106-93-4	1,2-Dibromoethane	1.1	U	0.45	1.1	2.2	2.2
95-50-1	1,2-Dichlorobenzene	2.2	U	1.0	2.2	4.5	4.5
107-06-2	1,2-Dichloroethane	1.1	U	0.56	1.1	2.2	2.2
78-87-5	1,2-Dichloropropane	1.1	U	0.45	1.1	2.2	2.2
108-67-8	1,3,5-Trimethylbenzene	2.2	U	1.0	2.2	4.5	4.5
541-73-1	1,3-Dichlorobenzene	2.2	U	1.0	2.2	4.5	4.5
142-28-9	1,3-Dichloropropane	1.1	U	0.45	1.1	2.2	2.2
106-46-7	1,4-Dichlorobenzene	2.2	U	1.0	2.2	4.5	4.5
594-20-7	2,2-Dichloropropane	1.1	U	0.45	1.1	2.2	2.2
78-93-3	2-Butanone	22	U	11	22	45	45
95-49-8	2-Chlorotoluene	2.2	U	1.1	2.2	4.5	4.5
591-78-6	2-Hexanone	22	U	12	22	45	45

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002 (26-27)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.78 (g/mL)	CTL Sample ID:	356170
% Solids:	93.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 18:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.2	U	1.0	2.2	4.5	4.5
108-10-1	4-Methyl-2-pentanone	22	U	11	22	45	45
67-64-1	Acetone	22	U	11	22	45	45
71-43-2	Benzene	1.1	U	0.34	1.1	2.2	2.2
108-86-1	Bromobenzene	1.1	U	0.56	1.1	2.2	2.2
74-97-5	Bromochloromethane	1.1	U	0.45	1.1	2.2	2.2
75-27-4	Bromodichloromethane	1.1	U	0.45	1.1	2.2	2.2
75-25-2	Bromoform	1.1	U	0.45	1.1	2.2	2.2
74-83-9	Bromomethane	2.2	U	0.79	2.2	4.5	4.5
75-15-0	Carbon disulfide	2.2	U	1.0	2.2	4.5	4.5
56-23-5	Carbon tetrachloride	1.1	U	0.34	1.1	2.2	2.2
108-90-7	Chlorobenzene	1.1	U	0.45	1.1	2.2	2.2
75-00-3	Chloroethane	1.1	U	0.56	1.1	2.2	2.2
67-66-3	Chloroform	1.1	U	0.45	1.1	2.2	2.2
74-87-3	Chloromethane	1.1	U	0.45	1.1	2.2	2.2
156-59-2	cis-1,2-Dichloroethene	0.561	J	0.45	1.1	2.2	2.2
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.34	1.1	2.2	2.2
124-48-1	Dibromochloromethane	1.1	U	0.45	1.1	2.2	2.2
74-95-3	Dibromomethane	1.1	U	0.45	1.1	2.2	2.2
75-71-8	Dichlorodifluoromethane	2.2	U	1.1	2.2	4.5	4.5
100-41-4	Ethylbenzene	1.1	U	0.45	1.1	2.2	2.2
76-13-1	Freon 113	2.2	U	1.1	2.2	4.5	4.5
87-68-3	Hexachlorobutadiene	2.2	U	1.1	2.2	4.5	4.5
98-82-8	Isopropylbenzene	1.1	U	0.34	1.1	2.2	2.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002 (26-27)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.78 (g/mL)	CTL Sample ID:	356170
% Solids:	93.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 18:46	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.2	U	0.79	2.2	4.5	4.5
75-09-2	Methylene chloride	2.2	U	1.9	2.2	4.5	4.5
91-20-3	Naphthalene	2.2	U	1.1	2.2	4.5	4.5
104-51-8	n-Butylbenzene	2.2	U	1.0	2.2	4.5	4.5
103-65-1	n-Propylbenzene	2.2	U	1.0	2.2	4.5	4.5
95-47-6	o-Xylene	1.1	U	0.45	1.1	2.2	2.2
99-87-6	p-Isopropyltoluene	2.2	U	1.1	2.2	4.5	4.5
135-98-8	sec-Butylbenzene	2.2	U	1.0	2.2	4.5	4.5
100-42-5	Styrene	1.1	U	0.34	1.1	2.2	2.2
98-06-6	tert-Butylbenzene	2.2	U	1.0	2.2	4.5	4.5
127-18-4	Tetrachloroethene	1.1	U	0.45	1.1	2.2	2.2
108-88-3	Toluene	1.1	U	0.45	1.1	2.2	2.2
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.45	1.1	2.2	2.2
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.45	1.1	2.2	2.2
79-01-6	Trichloroethene	16.5		0.34	1.1	2.2	2.2
75-69-4	Trichlorofluoromethane	1.1	U	0.56	1.1	2.2	2.2
108-05-4	Vinyl acetate	22	U	13	22	45	45
75-01-4	Vinyl chloride	1.1	U	0.56	1.1	2.2	2.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.69 (g/mL)	CTL Sample ID:	356171
% Solids:	85.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 19:15	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.31	1.0	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.0	U	0.31	1.0	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.51	1.0	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.0	U	0.41	1.0	2.1	2.1
75-34-3	1,1-Dichloroethane	1.0	U	0.41	1.0	2.1	2.1
75-35-4	1,1-Dichloroethene	1.0	U	0.41	1.0	2.1	2.1
563-58-6	1,1-Dichloropropene	1.0	U	0.41	1.0	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.92	2.1	4.1	4.1
96-18-4	1,2,3-Trichloropropane	1.0	U	0.51	1.0	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.92	2.1	4.1	4.1
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.82	2.1	4.1	4.1
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.3	2.1	4.1	4.1
106-93-4	1,2-Dibromoethane	1.0	U	0.41	1.0	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.92	2.1	4.1	4.1
107-06-2	1,2-Dichloroethane	1.0	U	0.51	1.0	2.1	2.1
78-87-5	1,2-Dichloropropane	1.0	U	0.41	1.0	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.92	2.1	4.1	4.1
541-73-1	1,3-Dichlorobenzene	2.1	U	0.92	2.1	4.1	4.1
142-28-9	1,3-Dichloropropane	1.0	U	0.41	1.0	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.92	2.1	4.1	4.1
594-20-7	2,2-Dichloropropane	1.0	U	0.41	1.0	2.1	2.1
78-93-3	2-Butanone	21	U	10	21	41	41
95-49-8	2-Chlorotoluene	2.1	U	1.0	2.1	4.1	4.1
591-78-6	2-Hexanone	21	U	11	21	41	41

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.69 (g/mL)	CTL Sample ID:	356171
% Solids:	85.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 19:15	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.1	U	0.92	2.1	4.1	4.1
108-10-1	4-Methyl-2-pentanone	21	U	10	21	41	41
67-64-1	Acetone	21	U	10	21	41	41
71-43-2	Benzene	1.0	U	0.31	1.0	2.1	2.1
108-86-1	Bromobenzene	1.0	U	0.51	1.0	2.1	2.1
74-97-5	Bromochloromethane	1.0	U	0.41	1.0	2.1	2.1
75-27-4	Bromodichloromethane	1.0	U	0.41	1.0	2.1	2.1
75-25-2	Bromoform	1.0	U	0.41	1.0	2.1	2.1
74-83-9	Bromomethane	2.1	U	0.72	2.1	4.1	4.1
75-15-0	Carbon disulfide	2.1	U	0.92	2.1	4.1	4.1
56-23-5	Carbon tetrachloride	1.0	U	0.31	1.0	2.1	2.1
108-90-7	Chlorobenzene	1.0	U	0.41	1.0	2.1	2.1
75-00-3	Chloroethane	1.0	U	0.51	1.0	2.1	2.1
67-66-3	Chloroform	1.0	U	0.41	1.0	2.1	2.1
74-87-3	Chloromethane	1.0	U	0.41	1.0	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	1.64	J	0.41	1.0	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.31	1.0	2.1	2.1
124-48-1	Dibromochloromethane	1.0	U	0.41	1.0	2.1	2.1
74-95-3	Dibromomethane	1.0	U	0.41	1.0	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U	1.0	2.1	4.1	4.1
100-41-4	Ethylbenzene	1.0	U	0.41	1.0	2.1	2.1
76-13-1	Freon 113	2.1	U	1.0	2.1	4.1	4.1
87-68-3	Hexachlorobutadiene	2.1	U	1.0	2.1	4.1	4.1
98-82-8	Isopropylbenzene	1.0	U	0.31	1.0	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.69 (g/mL)	CTL Sample ID:	356171
% Solids:	85.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 19:15	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.1	U	0.72	2.1	4.1	4.1
75-09-2	Methylene chloride	2.1	U	1.7	2.1	4.1	4.1
91-20-3	Naphthalene	2.1	U	1.0	2.1	4.1	4.1
104-51-8	n-Butylbenzene	2.1	U	0.92	2.1	4.1	4.1
103-65-1	n-Propylbenzene	2.1	U	0.92	2.1	4.1	4.1
95-47-6	o-Xylene	1.0	U	0.41	1.0	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.0	2.1	4.1	4.1
135-98-8	sec-Butylbenzene	2.1	U	0.92	2.1	4.1	4.1
100-42-5	Styrene	1.0	U	0.31	1.0	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.92	2.1	4.1	4.1
127-18-4	Tetrachloroethene	1.0	U	0.41	1.0	2.1	2.1
108-88-3	Toluene	1.0	U	0.41	1.0	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.41	1.0	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.41	1.0	2.1	2.1
79-01-6	Trichloroethene	3.90		0.31	1.0	2.1	2.1
75-69-4	Trichlorofluoromethane	1.0	U	0.51	1.0	2.1	2.1
108-05-4	Vinyl acetate	21	U	12	21	41	41
75-01-4	Vinyl chloride	1.0	U	0.51	1.0	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002 (40-41)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.86 (g/mL)	CTL Sample ID:	356172
% Solids:	82.1	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 19:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U	0.38	1.3	2.5	2.5
71-55-6	1,1,1-Trichloroethane	1.3	U	0.38	1.3	2.5	2.5
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U	0.63	1.3	2.5	2.5
79-00-5	1,1,2-Trichloroethane	1.3	U	0.50	1.3	2.5	2.5
75-34-3	1,1-Dichloroethane	1.3	U	0.50	1.3	2.5	2.5
75-35-4	1,1-Dichloroethene	1.3	U	0.50	1.3	2.5	2.5
563-58-6	1,1-Dichloropropene	1.3	U	0.50	1.3	2.5	2.5
87-61-6	1,2,3-Trichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
96-18-4	1,2,3-Trichloropropane	1.3	U	0.63	1.3	2.5	2.5
120-82-1	1,2,4-Trichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
95-63-6	1,2,4-Trimethylbenzene	2.5	U	1.0	2.5	5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U	1.6	2.5	5.0	5.0
106-93-4	1,2-Dibromoethane	1.3	U	0.50	1.3	2.5	2.5
95-50-1	1,2-Dichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
107-06-2	1,2-Dichloroethane	1.3	U	0.63	1.3	2.5	2.5
78-87-5	1,2-Dichloropropane	1.3	U	0.50	1.3	2.5	2.5
108-67-8	1,3,5-Trimethylbenzene	2.5	U	1.1	2.5	5.0	5.0
541-73-1	1,3-Dichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
142-28-9	1,3-Dichloropropane	1.3	U	0.50	1.3	2.5	2.5
106-46-7	1,4-Dichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
594-20-7	2,2-Dichloropropane	1.3	U	0.50	1.3	2.5	2.5
78-93-3	2-Butanone	25	U	13	25	50	50
95-49-8	2-Chlorotoluene	2.5	U	1.3	2.5	5.0	5.0
591-78-6	2-Hexanone	25	U	14	25	50	50

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002 (40-41)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.86 (g/mL)	CTL Sample ID:	356172
% Solids:	82.1	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 19:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.5	U	1.1	2.5	5.0	5.0
108-10-1	4-Methyl-2-pentanone	25	U	13	25	50	50
67-64-1	Acetone	25	U	13	25	50	50
71-43-2	Benzene	1.3	U	0.38	1.3	2.5	2.5
108-86-1	Bromobenzene	1.3	U	0.63	1.3	2.5	2.5
74-97-5	Bromochloromethane	1.3	U	0.50	1.3	2.5	2.5
75-27-4	Bromodichloromethane	1.3	U	0.50	1.3	2.5	2.5
75-25-2	Bromoform	1.3	U	0.50	1.3	2.5	2.5
74-83-9	Bromomethane	2.5	U	0.88	2.5	5.0	5.0
75-15-0	Carbon disulfide	2.5	U	1.1	2.5	5.0	5.0
56-23-5	Carbon tetrachloride	1.3	U	0.38	1.3	2.5	2.5
108-90-7	Chlorobenzene	1.3	U	0.50	1.3	2.5	2.5
75-00-3	Chloroethane	1.3	U	0.63	1.3	2.5	2.5
67-66-3	Chloroform	1.3	U	0.50	1.3	2.5	2.5
74-87-3	Chloromethane	1.3	U	0.50	1.3	2.5	2.5
156-59-2	cis-1,2-Dichloroethene	1.3	U	0.50	1.3	2.5	2.5
10061-01-5	cis-1,3-Dichloropropene	1.3	U	0.38	1.3	2.5	2.5
124-48-1	Dibromochloromethane	1.3	U	0.50	1.3	2.5	2.5
74-95-3	Dibromomethane	1.3	U	0.50	1.3	2.5	2.5
75-71-8	Dichlorodifluoromethane	2.5	U	1.3	2.5	5.0	5.0
100-41-4	Ethylbenzene	1.3	U	0.50	1.3	2.5	2.5
76-13-1	Freon 113	2.5	U	1.3	2.5	5.0	5.0
87-68-3	Hexachlorobutadiene	2.5	U	1.3	2.5	5.0	5.0
98-82-8	Isopropylbenzene	1.3	U	0.38	1.3	2.5	2.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-002 (40-41)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.86 (g/mL)	CTL Sample ID:	356172
% Solids:	82.1	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 19:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.5	U	0.88	2.5	5.0	5.0
75-09-2	Methylene chloride	2.5	U	2.1	2.5	5.0	5.0
91-20-3	Naphthalene	2.5	U	1.3	2.5	5.0	5.0
104-51-8	n-Butylbenzene	2.5	U	1.1	2.5	5.0	5.0
103-65-1	n-Propylbenzene	2.5	U	1.1	2.5	5.0	5.0
95-47-6	o-Xylene	1.3	U	0.50	1.3	2.5	2.5
99-87-6	p-Isopropyltoluene	2.5	U	1.3	2.5	5.0	5.0
135-98-8	sec-Butylbenzene	2.5	U	1.1	2.5	5.0	5.0
100-42-5	Styrene	1.3	U	0.38	1.3	2.5	2.5
98-06-6	tert-Butylbenzene	2.5	U	1.1	2.5	5.0	5.0
127-18-4	Tetrachloroethene	1.3	U	0.50	1.3	2.5	2.5
108-88-3	Toluene	1.3	U	0.50	1.3	2.5	2.5
156-60-5	trans-1,2-Dichloroethene	1.3	U	0.50	1.3	2.5	2.5
10061-02-6	trans-1,3-Dichloropropene	1.3	U	0.50	1.3	2.5	2.5
79-01-6	Trichloroethene	1.3	U	0.38	1.3	2.5	2.5
75-69-4	Trichlorofluoromethane	1.3	U	0.63	1.3	2.5	2.5
108-05-4	Vinyl acetate	25	U	15	25	50	50
75-01-4	Vinyl chloride	1.3	U	0.63	1.3	2.5	2.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356209
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	50.00
Date & Time Analyzed:	11/14/2019 / 18:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	50	U	20	50	100	100
71-55-6	1,1,1-Trichloroethane	30	U	15	30	50	50
79-34-5	1,1,2,2-Tetrachloroethane	30	U	15	30	50	50
79-00-5	1,1,2-Trichloroethane	30	U	15	30	50	50
75-34-3	1,1-Dichloroethane	30	U	15	30	50	50
75-35-4	1,1-Dichloroethene	50	U	20	50	100	100
563-58-6	1,1-Dichloropropene	30	U	15	30	50	50
87-61-6	1,2,3-Trichlorobenzene	30	U	12	30	50	50
96-18-4	1,2,3-Trichloropropane	30	U	15	30	50	50
120-82-1	1,2,4-Trichlorobenzene	30	U	14	30	50	50
95-63-6	1,2,4-Trimethylbenzene	30	U	15	30	50	50
96-12-8	1,2-Dibromo-3-chloropropane	30	U	13	30	50	50
106-93-4	1,2-Dibromoethane	30	U	15	30	50	50
95-50-1	1,2-Dichlorobenzene	30	U	15	30	50	50
107-06-2	1,2-Dichloroethane	30	U	12	30	50	50
78-87-5	1,2-Dichloropropane	30	U	9.0	30	50	50
108-67-8	1,3,5-Trimethylbenzene	30	U	14	30	50	50
541-73-1	1,3-Dichlorobenzene	30	U	13	30	50	50
142-28-9	1,3-Dichloropropane	15	U	8.5	15	30	30
106-46-7	1,4-Dichlorobenzene	30	U	15	30	50	50
594-20-7	2,2-Dichloropropane	30	U	15	30	50	50
78-93-3	2-Butanone	300	U	130	300	500	500
95-49-8	2-Chlorotoluene	30	U	13	30	50	50
591-78-6	2-Hexanone	300	U	150	300	500	500

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356209
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	50.00
Date & Time Analyzed:	11/14/2019 / 18:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	30	U	15	30	50	50
108-10-1	4-Methyl-2-pentanone	300	U	110	300	500	500
67-64-1	Acetone	500	U	200	500	1000	1000
71-43-2	Benzene	50	U	20	50	100	100
108-86-1	Bromobenzene	50	U	20	50	100	100
74-97-5	Bromochloromethane	30	U	15	30	50	50
75-27-4	Bromodichloromethane	30	U	15	30	50	50
75-25-2	Bromoform	50	U	20	50	100	100
74-83-9	Bromomethane	100	U	45	100	200	200
75-15-0	Carbon disulfide	100	U	30	100	200	200
56-23-5	Carbon tetrachloride	30	U	15	30	50	50
108-90-7	Chlorobenzene	30	U	15	30	50	50
75-00-3	Chloroethane	50	U	25	50	100	100
67-66-3	Chloroform	30	U	15	30	50	50
74-87-3	Chloromethane	50	U	30	50	100	100
156-59-2	cis-1,2-Dichloroethene	30	U	15	30	50	50
10061-01-5	cis-1,3-Dichloropropene	15	U	8.0	15	30	30
124-48-1	Dibromochloromethane	30	U	15	30	50	50
74-95-3	Dibromomethane	30	U	11	30	50	50
75-71-8	Dichlorodifluoromethane	50	U	20	50	100	100
100-41-4	Ethylbenzene	30	U	15	30	50	50
76-13-1	Freon 113	100	U	35	100	200	200
87-68-3	Hexachlorobutadiene	50	U	20	50	100	100
98-82-8	Isopropylbenzene	30	U	15	30	50	50

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356209
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	50.00
Date & Time Analyzed:	11/14/2019 / 18:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	60	U	35	60	100	100
75-09-2	Methylene chloride	23	J	20	50	100	100
91-20-3	Naphthalene	30	U	15	30	50	50
104-51-8	n-Butylbenzene	30	U	15	30	50	50
103-65-1	n-Propylbenzene	30	U	15	30	50	50
95-47-6	o-Xylene	30	U	13	30	50	50
99-87-6	p-Isopropyltoluene	30	U	15	30	50	50
135-98-8	sec-Butylbenzene	50	U Z	20	50	100	100
100-42-5	Styrene	30	U	15	30	50	50
98-06-6	tert-Butylbenzene	50	U	20	50	100	100
127-18-4	Tetrachloroethene	30	U	14	30	50	50
108-88-3	Toluene	30	U	11	30	50	50
156-60-5	trans-1,2-Dichloroethene	30	U	15	30	50	50
10061-02-6	trans-1,3-Dichloropropene	30	U	12	30	50	50
79-01-6	Trichloroethene	760		15	30	50	50
75-69-4	Trichlorofluoromethane	50	U	20	50	100	100
108-05-4	Vinyl acetate	500	U	250	500	1000	1000
75-01-4	Vinyl chloride	15	U	7.0	15	30	30

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.45 (g/mL)	CTL Sample ID:	356173
% Solids:	79.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	5.00
Date & Time Analyzed:	11/18/2019 / 18:18	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	15800		110	300	600	600

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.45 (g/mL)	CTL Sample ID:	356173
% Solids:	79.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 20:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U	0.35	1.2	2.3	2.3
71-55-6	1,1,1-Trichloroethane	1.2	U	0.35	1.2	2.3	2.3
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U	0.58	1.2	2.3	2.3
79-00-5	1,1,2-Trichloroethane	1.2	U	0.46	1.2	2.3	2.3
75-34-3	1,1-Dichloroethane	1.2	U	0.46	1.2	2.3	2.3
75-35-4	1,1-Dichloroethene	8.94		0.46	1.2	2.3	2.3
563-58-6	1,1-Dichloropropene	1.2	U	0.46	1.2	2.3	2.3
87-61-6	1,2,3-Trichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
96-18-4	1,2,3-Trichloropropane	1.2	U	0.58	1.2	2.3	2.3
120-82-1	1,2,4-Trichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
95-63-6	1,2,4-Trimethylbenzene	2.3	U	0.93	2.3	4.6	4.6
96-12-8	1,2-Dibromo-3-chloropropane	2.3	U	1.5	2.3	4.6	4.6
106-93-4	1,2-Dibromoethane	1.2	U	0.46	1.2	2.3	2.3
95-50-1	1,2-Dichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
107-06-2	1,2-Dichloroethane	1.2	U	0.58	1.2	2.3	2.3
78-87-5	1,2-Dichloropropane	1.2	U	0.46	1.2	2.3	2.3
108-67-8	1,3,5-Trimethylbenzene	2.3	U	1.0	2.3	4.6	4.6
541-73-1	1,3-Dichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
142-28-9	1,3-Dichloropropane	1.2	U	0.46	1.2	2.3	2.3
106-46-7	1,4-Dichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
594-20-7	2,2-Dichloropropane	0.929	J	0.46	1.2	2.3	2.3
78-93-3	2-Butanone	23	U	12	23	46	46
95-49-8	2-Chlorotoluene	2.3	U	1.2	2.3	4.6	4.6
591-78-6	2-Hexanone	23	U	13	23	46	46

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.45 (g/mL)	CTL Sample ID:	356173
% Solids:	79.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 20:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.3	U	1.0	2.3	4.6	4.6
108-10-1	4-Methyl-2-pentanone	23	U	12	23	46	46
67-64-1	Acetone	12.8	J	12	23	46	46
71-43-2	Benzene	1.2	U	0.35	1.2	2.3	2.3
108-86-1	Bromobenzene	1.2	U	0.58	1.2	2.3	2.3
74-97-5	Bromochloromethane	1.2	U	0.46	1.2	2.3	2.3
75-27-4	Bromodichloromethane	1.2	U	0.46	1.2	2.3	2.3
75-25-2	Bromoform	1.2	U	0.46	1.2	2.3	2.3
74-83-9	Bromomethane	2.3	U	0.81	2.3	4.6	4.6
75-15-0	Carbon disulfide	2.3	U	1.0	2.3	4.6	4.6
56-23-5	Carbon tetrachloride	1.2	U	0.35	1.2	2.3	2.3
108-90-7	Chlorobenzene	1.2	U	0.46	1.2	2.3	2.3
75-00-3	Chloroethane	1.2	U	0.58	1.2	2.3	2.3
67-66-3	Chloroform	1.2	U	0.46	1.2	2.3	2.3
74-87-3	Chloromethane	1.2	U	0.46	1.2	2.3	2.3
156-59-2	cis-1,2-Dichloroethene	31.5		0.46	1.2	2.3	2.3
10061-01-5	cis-1,3-Dichloropropene	1.2	U	0.35	1.2	2.3	2.3
124-48-1	Dibromochloromethane	1.2	U	0.46	1.2	2.3	2.3
74-95-3	Dibromomethane	1.2	U	0.46	1.2	2.3	2.3
75-71-8	Dichlorodifluoromethane	2.3	U	1.2	2.3	4.6	4.6
100-41-4	Ethylbenzene	1.2	U	0.46	1.2	2.3	2.3
76-13-1	Freon 113	2.3	U	1.2	2.3	4.6	4.6
87-68-3	Hexachlorobutadiene	2.3	U	1.2	2.3	4.6	4.6
98-82-8	Isopropylbenzene	1.2	U	0.35	1.2	2.3	2.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.45 (g/mL)	CTL Sample ID:	356173
% Solids:	79.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 20:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.3	U	0.81	2.3	4.6	4.6
75-09-2	Methylene chloride	2.3	U	2.0	2.3	4.6	4.6
91-20-3	Naphthalene	2.3	U	1.2	2.3	4.6	4.6
104-51-8	n-Butylbenzene	2.3	U	1.0	2.3	4.6	4.6
103-65-1	n-Propylbenzene	2.3	U	1.0	2.3	4.6	4.6
95-47-6	o-Xylene	1.2	U	0.46	1.2	2.3	2.3
99-87-6	p-Isopropyltoluene	2.3	U	1.2	2.3	4.6	4.6
135-98-8	sec-Butylbenzene	2.3	U	1.0	2.3	4.6	4.6
100-42-5	Styrene	1.2	U	0.35	1.2	2.3	2.3
98-06-6	tert-Butylbenzene	2.3	U	1.0	2.3	4.6	4.6
127-18-4	Tetrachloroethene	1.05	J	0.46	1.2	2.3	2.3
108-88-3	Toluene	1.2	U	0.46	1.2	2.3	2.3
156-60-5	trans-1,2-Dichloroethene	1.2	U	0.46	1.2	2.3	2.3
10061-02-6	trans-1,3-Dichloropropene	1.2	U	0.46	1.2	2.3	2.3
75-69-4	Trichlorofluoromethane	1.2	U	0.58	1.2	2.3	2.3
108-05-4	Vinyl acetate	23	U	14	23	46	46
75-01-4	Vinyl chloride	0.581	J	0.58	1.2	2.3	2.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003 (35-36)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.30 (g/mL)	CTL Sample ID:	356174
% Solids:	84.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 11:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.94	U	0.28	0.94	1.9	1.9
71-55-6	1,1,1-Trichloroethane	0.94	U	0.28	0.94	1.9	1.9
79-34-5	1,1,2,2-Tetrachloroethane	0.94	U	0.47	0.94	1.9	1.9
79-00-5	1,1,2-Trichloroethane	0.94	U	0.38	0.94	1.9	1.9
75-34-3	1,1-Dichloroethane	0.94	U	0.38	0.94	1.9	1.9
75-35-4	1,1-Dichloroethene	0.94	U	0.38	0.94	1.9	1.9
563-58-6	1,1-Dichloropropene	0.94	U	0.38	0.94	1.9	1.9
87-61-6	1,2,3-Trichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
96-18-4	1,2,3-Trichloropropane	0.94	U	0.47	0.94	1.9	1.9
120-82-1	1,2,4-Trichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
95-63-6	1,2,4-Trimethylbenzene	1.9	U	0.75	1.9	3.8	3.8
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U	1.2	1.9	3.8	3.8
106-93-4	1,2-Dibromoethane	0.94	U	0.38	0.94	1.9	1.9
95-50-1	1,2-Dichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
107-06-2	1,2-Dichloroethane	0.94	U	0.47	0.94	1.9	1.9
78-87-5	1,2-Dichloropropane	0.94	U	0.38	0.94	1.9	1.9
108-67-8	1,3,5-Trimethylbenzene	1.9	U	0.85	1.9	3.8	3.8
541-73-1	1,3-Dichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
142-28-9	1,3-Dichloropropane	0.94	U	0.38	0.94	1.9	1.9
106-46-7	1,4-Dichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
594-20-7	2,2-Dichloropropane	0.94	U	0.38	0.94	1.9	1.9
78-93-3	2-Butanone	19	U	9.4	19	38	38
95-49-8	2-Chlorotoluene	1.9	U	0.94	1.9	3.8	3.8
591-78-6	2-Hexanone	19	U	10	19	38	38

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003 (35-36)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.30 (g/mL)	CTL Sample ID:	356174
% Solids:	84.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 11:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.9	U	0.85	1.9	3.8	3.8
108-10-1	4-Methyl-2-pentanone	19	U	9.4	19	38	38
67-64-1	Acetone	19	U	9.4	19	38	38
71-43-2	Benzene	0.94	U	0.28	0.94	1.9	1.9
108-86-1	Bromobenzene	0.94	U	0.47	0.94	1.9	1.9
74-97-5	Bromochloromethane	0.94	U	0.38	0.94	1.9	1.9
75-27-4	Bromodichloromethane	0.94	U	0.38	0.94	1.9	1.9
75-25-2	Bromoform	0.94	U	0.38	0.94	1.9	1.9
74-83-9	Bromomethane	1.9	U Z	0.66	1.9	3.8	3.8
75-15-0	Carbon disulfide	1.9	U	0.85	1.9	3.8	3.8
56-23-5	Carbon tetrachloride	0.94	U	0.28	0.94	1.9	1.9
108-90-7	Chlorobenzene	0.94	U	0.38	0.94	1.9	1.9
75-00-3	Chloroethane	0.94	U	0.47	0.94	1.9	1.9
67-66-3	Chloroform	0.94	U	0.38	0.94	1.9	1.9
74-87-3	Chloromethane	0.94	U	0.38	0.94	1.9	1.9
156-59-2	cis-1,2-Dichloroethene	0.94	U	0.38	0.94	1.9	1.9
10061-01-5	cis-1,3-Dichloropropene	0.94	U	0.28	0.94	1.9	1.9
124-48-1	Dibromochloromethane	0.94	U	0.38	0.94	1.9	1.9
74-95-3	Dibromomethane	0.94	U	0.38	0.94	1.9	1.9
75-71-8	Dichlorodifluoromethane	1.9	U Z	0.94	1.9	3.8	3.8
100-41-4	Ethylbenzene	0.94	U	0.38	0.94	1.9	1.9
76-13-1	Freon 113	1.9	U	0.94	1.9	3.8	3.8
87-68-3	Hexachlorobutadiene	1.9	U	0.94	1.9	3.8	3.8
98-82-8	Isopropylbenzene	0.94	U	0.28	0.94	1.9	1.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003 (35-36)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.30 (g/mL)	CTL Sample ID:	356174
% Solids:	84.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 11:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.9	U	0.66	1.9	3.8	3.8
75-09-2	Methylene chloride	1.9	U Z	1.6	1.9	3.8	3.8
91-20-3	Naphthalene	1.9	U	0.94	1.9	3.8	3.8
104-51-8	n-Butylbenzene	1.9	U	0.85	1.9	3.8	3.8
103-65-1	n-Propylbenzene	1.9	U	0.85	1.9	3.8	3.8
95-47-6	o-Xylene	0.94	U	0.38	0.94	1.9	1.9
99-87-6	p-Isopropyltoluene	1.9	U	0.94	1.9	3.8	3.8
135-98-8	sec-Butylbenzene	1.9	U	0.85	1.9	3.8	3.8
100-42-5	Styrene	0.94	U	0.28	0.94	1.9	1.9
98-06-6	tert-Butylbenzene	1.9	U	0.85	1.9	3.8	3.8
127-18-4	Tetrachloroethene	0.94	U	0.38	0.94	1.9	1.9
108-88-3	Toluene	0.94	U	0.38	0.94	1.9	1.9
156-60-5	trans-1,2-Dichloroethene	0.94	U	0.38	0.94	1.9	1.9
10061-02-6	trans-1,3-Dichloropropene	0.94	U	0.38	0.94	1.9	1.9
79-01-6	Trichloroethene	0.94	U	0.28	0.94	1.9	1.9
75-69-4	Trichlorofluoromethane	0.94	U	0.47	0.94	1.9	1.9
108-05-4	Vinyl acetate	19	U	11	19	38	38
75-01-4	Vinyl chloride	0.94	U	0.47	0.94	1.9	1.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003 (39-40)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.74 (g/mL)	CTL Sample ID:	356175
% Solids:	82.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 11:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.53	1.1	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-34-3	1,1-Dichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-35-4	1,1-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
563-58-6	1,1-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
96-18-4	1,2,3-Trichloropropane	1.1	U	0.53	1.1	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.85	2.1	4.2	4.2
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.4	2.1	4.2	4.2
106-93-4	1,2-Dibromoethane	1.1	U	0.42	1.1	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
107-06-2	1,2-Dichloroethane	1.1	U	0.53	1.1	2.1	2.1
78-87-5	1,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.95	2.1	4.2	4.2
541-73-1	1,3-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
142-28-9	1,3-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
594-20-7	2,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
78-93-3	2-Butanone	21	U	11	21	42	42
95-49-8	2-Chlorotoluene	2.1	U	1.1	2.1	4.2	4.2
591-78-6	2-Hexanone	21	U	12	21	42	42

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003 (39-40)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.74 (g/mL)	CTL Sample ID:	356175
% Solids:	82.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 11:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.1	U	0.95	2.1	4.2	4.2
108-10-1	4-Methyl-2-pentanone	21	U	11	21	42	42
67-64-1	Acetone	11.5	J	11	21	42	42
71-43-2	Benzene	1.1	U	0.32	1.1	2.1	2.1
108-86-1	Bromobenzene	1.1	U	0.53	1.1	2.1	2.1
74-97-5	Bromochloromethane	1.1	U	0.42	1.1	2.1	2.1
75-27-4	Bromodichloromethane	1.1	U	0.42	1.1	2.1	2.1
75-25-2	Bromoform	1.1	U	0.42	1.1	2.1	2.1
74-83-9	Bromomethane	2.1	U Z	0.74	2.1	4.2	4.2
75-15-0	Carbon disulfide	0.953	J	0.95	2.1	4.2	4.2
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.1	2.1
108-90-7	Chlorobenzene	1.1	U	0.42	1.1	2.1	2.1
75-00-3	Chloroethane	1.1	U	0.53	1.1	2.1	2.1
67-66-3	Chloroform	1.1	U	0.42	1.1	2.1	2.1
74-87-3	Chloromethane	1.1	U	0.42	1.1	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.1	2.1
124-48-1	Dibromochloromethane	1.1	U	0.42	1.1	2.1	2.1
74-95-3	Dibromomethane	1.1	U	0.42	1.1	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U Z	1.1	2.1	4.2	4.2
100-41-4	Ethylbenzene	1.1	U	0.42	1.1	2.1	2.1
76-13-1	Freon 113	2.1	U	1.1	2.1	4.2	4.2
87-68-3	Hexachlorobutadiene	2.1	U	1.1	2.1	4.2	4.2
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-003 (39-40)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.74 (g/mL)	CTL Sample ID:	356175
% Solids:	82.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 11:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.1	U	0.74	2.1	4.2	4.2
75-09-2	Methylene chloride	2.1	U Z	1.8	2.1	4.2	4.2
91-20-3	Naphthalene	2.1	U	1.1	2.1	4.2	4.2
104-51-8	n-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
103-65-1	n-Propylbenzene	2.1	U	0.95	2.1	4.2	4.2
95-47-6	o-Xylene	1.1	U	0.42	1.1	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.1	2.1	4.2	4.2
135-98-8	sec-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
100-42-5	Styrene	1.1	U	0.32	1.1	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
127-18-4	Tetrachloroethene	1.1	U	0.42	1.1	2.1	2.1
108-88-3	Toluene	1.1	U	0.42	1.1	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
79-01-6	Trichloroethene	1.48	J	0.32	1.1	2.1	2.1
75-69-4	Trichlorofluoromethane	1.1	U	0.53	1.1	2.1	2.1
108-05-4	Vinyl acetate	21	U	13	21	42	42
75-01-4	Vinyl chloride	1.1	U	0.53	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356210
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	50.00
Date & Time Analyzed:	11/14/2019 / 18:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	50	U	20	50	100	100
71-55-6	1,1,1-Trichloroethane	30	U	15	30	50	50
79-34-5	1,1,2,2-Tetrachloroethane	30	U	15	30	50	50
79-00-5	1,1,2-Trichloroethane	30	U	15	30	50	50
75-34-3	1,1-Dichloroethane	30	U	15	30	50	50
75-35-4	1,1-Dichloroethene	50	U	20	50	100	100
563-58-6	1,1-Dichloropropene	30	U	15	30	50	50
87-61-6	1,2,3-Trichlorobenzene	30	U	12	30	50	50
96-18-4	1,2,3-Trichloropropane	30	U	15	30	50	50
120-82-1	1,2,4-Trichlorobenzene	30	U	14	30	50	50
95-63-6	1,2,4-Trimethylbenzene	30	U	15	30	50	50
96-12-8	1,2-Dibromo-3-chloropropane	30	U	13	30	50	50
106-93-4	1,2-Dibromoethane	30	U	15	30	50	50
95-50-1	1,2-Dichlorobenzene	30	U	15	30	50	50
107-06-2	1,2-Dichloroethane	30	U	12	30	50	50
78-87-5	1,2-Dichloropropane	30	U	9.0	30	50	50
108-67-8	1,3,5-Trimethylbenzene	30	U	14	30	50	50
541-73-1	1,3-Dichlorobenzene	30	U	13	30	50	50
142-28-9	1,3-Dichloropropane	15	U	8.5	15	30	30
106-46-7	1,4-Dichlorobenzene	30	U	15	30	50	50
594-20-7	2,2-Dichloropropane	30	U	15	30	50	50
78-93-3	2-Butanone	300	U	130	300	500	500
95-49-8	2-Chlorotoluene	30	U	13	30	50	50
591-78-6	2-Hexanone	300	U	150	300	500	500

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356210
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	50.00
Date & Time Analyzed:	11/14/2019 / 18:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	30	U	15	30	50	50
108-10-1	4-Methyl-2-pentanone	300	U	110	300	500	500
67-64-1	Acetone	500	U	200	500	1000	1000
71-43-2	Benzene	50	U	20	50	100	100
108-86-1	Bromobenzene	50	U	20	50	100	100
74-97-5	Bromochloromethane	30	U	15	30	50	50
75-27-4	Bromodichloromethane	30	U	15	30	50	50
75-25-2	Bromoform	50	U	20	50	100	100
74-83-9	Bromomethane	100	U	45	100	200	200
75-15-0	Carbon disulfide	100	U	30	100	200	200
56-23-5	Carbon tetrachloride	30	U	15	30	50	50
108-90-7	Chlorobenzene	30	U	15	30	50	50
75-00-3	Chloroethane	50	U	25	50	100	100
67-66-3	Chloroform	30	U	15	30	50	50
74-87-3	Chloromethane	50	U	30	50	100	100
156-59-2	cis-1,2-Dichloroethene	24	J	15	30	50	50
10061-01-5	cis-1,3-Dichloropropene	15	U	8.0	15	30	30
124-48-1	Dibromochloromethane	30	U	15	30	50	50
74-95-3	Dibromomethane	30	U	11	30	50	50
75-71-8	Dichlorodifluoromethane	50	U	20	50	100	100
100-41-4	Ethylbenzene	30	U	15	30	50	50
76-13-1	Freon 113	100	U	35	100	200	200
87-68-3	Hexachlorobutadiene	50	U	20	50	100	100
98-82-8	Isopropylbenzene	30	U	15	30	50	50

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356210
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	50.00
Date & Time Analyzed:	11/14/2019 / 18:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	60	U	35	60	100	100
75-09-2	Methylene chloride	24	J	20	50	100	100
91-20-3	Naphthalene	30	U	15	30	50	50
104-51-8	n-Butylbenzene	30	U	15	30	50	50
103-65-1	n-Propylbenzene	30	U	15	30	50	50
95-47-6	o-Xylene	30	U	13	30	50	50
99-87-6	p-Isopropyltoluene	30	U	15	30	50	50
135-98-8	sec-Butylbenzene	50	U Z	20	50	100	100
100-42-5	Styrene	30	U	15	30	50	50
98-06-6	tert-Butylbenzene	50	U	20	50	100	100
127-18-4	Tetrachloroethene	30	U	14	30	50	50
108-88-3	Toluene	30	U	11	30	50	50
156-60-5	trans-1,2-Dichloroethene	30	U	15	30	50	50
10061-02-6	trans-1,3-Dichloropropene	30	U	12	30	50	50
79-01-6	Trichloroethene	820		15	30	50	50
75-69-4	Trichlorofluoromethane	50	U	20	50	100	100
108-05-4	Vinyl acetate	500	U	250	500	1000	1000
75-01-4	Vinyl chloride	15	U	7.0	15	30	30

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	356194
% Solids:	84.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 12:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.53	1.1	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-34-3	1,1-Dichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-35-4	1,1-Dichloroethene	2.64		0.42	1.1	2.1	2.1
563-58-6	1,1-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
96-18-4	1,2,3-Trichloropropane	1.1	U	0.53	1.1	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.84	2.1	4.2	4.2
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.4	2.1	4.2	4.2
106-93-4	1,2-Dibromoethane	1.1	U	0.42	1.1	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
107-06-2	1,2-Dichloroethane	1.1	U	0.53	1.1	2.1	2.1
78-87-5	1,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.95	2.1	4.2	4.2
541-73-1	1,3-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
142-28-9	1,3-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
594-20-7	2,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
78-93-3	2-Butanone	21	U	11	21	42	42
95-49-8	2-Chlorotoluene	2.1	U	1.1	2.1	4.2	4.2
591-78-6	2-Hexanone	21	U	12	21	42	42

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	356194
% Solids:	84.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 12:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.1	U	0.95	2.1	4.2	4.2
108-10-1	4-Methyl-2-pentanone	21	U	11	21	42	42
67-64-1	Acetone	21	U	11	21	42	42
71-43-2	Benzene	1.1	U	0.32	1.1	2.1	2.1
108-86-1	Bromobenzene	1.1	U	0.53	1.1	2.1	2.1
74-97-5	Bromochloromethane	1.1	U	0.42	1.1	2.1	2.1
75-27-4	Bromodichloromethane	1.1	U	0.42	1.1	2.1	2.1
75-25-2	Bromoform	1.1	U	0.42	1.1	2.1	2.1
74-83-9	Bromomethane	2.1	U Z	0.74	2.1	4.2	4.2
75-15-0	Carbon disulfide	2.1	U	0.95	2.1	4.2	4.2
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.1	2.1
108-90-7	Chlorobenzene	1.1	U	0.42	1.1	2.1	2.1
75-00-3	Chloroethane	1.1	U	0.53	1.1	2.1	2.1
67-66-3	Chloroform	1.1	U	0.42	1.1	2.1	2.1
74-87-3	Chloromethane	1.1	U	0.42	1.1	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	32.2		0.42	1.1	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.1	2.1
124-48-1	Dibromochloromethane	1.1	U	0.42	1.1	2.1	2.1
74-95-3	Dibromomethane	1.1	U	0.42	1.1	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U	1.1	2.1	4.2	4.2
100-41-4	Ethylbenzene	1.1	U	0.42	1.1	2.1	2.1
76-13-1	Freon 113	2.1	U	1.1	2.1	4.2	4.2
87-68-3	Hexachlorobutadiene	2.1	U	1.1	2.1	4.2	4.2
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	356194
% Solids:	84.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 12:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.1	U	0.74	2.1	4.2	4.2
75-09-2	Methylene chloride	2.1	U	1.8	2.1	4.2	4.2
91-20-3	Naphthalene	2.1	U	1.1	2.1	4.2	4.2
104-51-8	n-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
103-65-1	n-Propylbenzene	2.1	U	0.95	2.1	4.2	4.2
95-47-6	o-Xylene	1.1	U	0.42	1.1	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.1	2.1	4.2	4.2
135-98-8	sec-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
100-42-5	Styrene	1.1	U	0.32	1.1	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
127-18-4	Tetrachloroethene	1.1	U	0.42	1.1	2.1	2.1
108-88-3	Toluene	1.1	U	0.42	1.1	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
75-69-4	Trichlorofluoromethane	1.1	U	0.53	1.1	2.1	2.1
108-05-4	Vinyl acetate	21	U	13	21	42	42
75-01-4	Vinyl chloride	0.633	J	0.53	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	356194
% Solids:	84.0	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	2.00
Date & Time Analyzed:	11/18/2019 / 23:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	8370		42	110	220	220

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004 (30-31)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.71 (g/mL)	CTL Sample ID:	356195
% Solids:	85.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 12:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U	0.37	1.2	2.5	2.5
71-55-6	1,1,1-Trichloroethane	1.2	U	0.37	1.2	2.5	2.5
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U	0.62	1.2	2.5	2.5
79-00-5	1,1,2-Trichloroethane	1.2	U	0.50	1.2	2.5	2.5
75-34-3	1,1-Dichloroethane	1.2	U	0.50	1.2	2.5	2.5
75-35-4	1,1-Dichloroethene	1.2	U	0.50	1.2	2.5	2.5
563-58-6	1,1-Dichloropropene	1.2	U	0.50	1.2	2.5	2.5
87-61-6	1,2,3-Trichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
96-18-4	1,2,3-Trichloropropane	1.2	U	0.62	1.2	2.5	2.5
120-82-1	1,2,4-Trichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
95-63-6	1,2,4-Trimethylbenzene	2.5	U	0.99	2.5	5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U	1.6	2.5	5.0	5.0
106-93-4	1,2-Dibromoethane	1.2	U	0.50	1.2	2.5	2.5
95-50-1	1,2-Dichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
107-06-2	1,2-Dichloroethane	1.2	U	0.62	1.2	2.5	2.5
78-87-5	1,2-Dichloropropane	1.2	U	0.50	1.2	2.5	2.5
108-67-8	1,3,5-Trimethylbenzene	2.5	U	1.1	2.5	5.0	5.0
541-73-1	1,3-Dichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
142-28-9	1,3-Dichloropropane	1.2	U	0.50	1.2	2.5	2.5
106-46-7	1,4-Dichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
594-20-7	2,2-Dichloropropane	1.2	U	0.50	1.2	2.5	2.5
78-93-3	2-Butanone	25	U	12	25	50	50
95-49-8	2-Chlorotoluene	2.5	U	1.2	2.5	5.0	5.0
591-78-6	2-Hexanone	25	U	14	25	50	50

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004 (30-31)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.71 (g/mL)	CTL Sample ID:	356195
% Solids:	85.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 12:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.5	U	1.1	2.5	5.0	5.0
108-10-1	4-Methyl-2-pentanone	25	U	12	25	50	50
67-64-1	Acetone	25	U	12	25	50	50
71-43-2	Benzene	1.2	U	0.37	1.2	2.5	2.5
108-86-1	Bromobenzene	1.2	U	0.62	1.2	2.5	2.5
74-97-5	Bromochloromethane	1.2	U	0.50	1.2	2.5	2.5
75-27-4	Bromodichloromethane	1.2	U	0.50	1.2	2.5	2.5
75-25-2	Bromoform	1.2	U	0.50	1.2	2.5	2.5
74-83-9	Bromomethane	2.5	U Z	0.87	2.5	5.0	5.0
75-15-0	Carbon disulfide	2.5	U	1.1	2.5	5.0	5.0
56-23-5	Carbon tetrachloride	1.2	U	0.37	1.2	2.5	2.5
108-90-7	Chlorobenzene	1.2	U	0.50	1.2	2.5	2.5
75-00-3	Chloroethane	1.2	U	0.62	1.2	2.5	2.5
67-66-3	Chloroform	1.2	U	0.50	1.2	2.5	2.5
74-87-3	Chloromethane	1.2	U	0.50	1.2	2.5	2.5
156-59-2	cis-1,2-Dichloroethene	2.11	J	0.50	1.2	2.5	2.5
10061-01-5	cis-1,3-Dichloropropene	1.2	U	0.37	1.2	2.5	2.5
124-48-1	Dibromochloromethane	1.2	U	0.50	1.2	2.5	2.5
74-95-3	Dibromomethane	1.2	U	0.50	1.2	2.5	2.5
75-71-8	Dichlorodifluoromethane	2.5	U	1.2	2.5	5.0	5.0
100-41-4	Ethylbenzene	1.2	U	0.50	1.2	2.5	2.5
76-13-1	Freon 113	2.5	U	1.2	2.5	5.0	5.0
87-68-3	Hexachlorobutadiene	2.5	U	1.2	2.5	5.0	5.0
98-82-8	Isopropylbenzene	1.2	U	0.37	1.2	2.5	2.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004 (30-31)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.71 (g/mL)	CTL Sample ID:	356195
% Solids:	85.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 12:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.5	U	0.87	2.5	5.0	5.0
75-09-2	Methylene chloride	2.5	U	2.1	2.5	5.0	5.0
91-20-3	Naphthalene	2.5	U	1.2	2.5	5.0	5.0
104-51-8	n-Butylbenzene	2.5	U	1.1	2.5	5.0	5.0
103-65-1	n-Propylbenzene	2.5	U	1.1	2.5	5.0	5.0
95-47-6	o-Xylene	1.2	U	0.50	1.2	2.5	2.5
99-87-6	p-Isopropyltoluene	2.5	U	1.2	2.5	5.0	5.0
135-98-8	sec-Butylbenzene	2.5	U	1.1	2.5	5.0	5.0
100-42-5	Styrene	1.2	U	0.37	1.2	2.5	2.5
98-06-6	tert-Butylbenzene	2.5	U	1.1	2.5	5.0	5.0
127-18-4	Tetrachloroethene	1.2	U	0.50	1.2	2.5	2.5
108-88-3	Toluene	0.619	J	0.50	1.2	2.5	2.5
156-60-5	trans-1,2-Dichloroethene	1.2	U	0.50	1.2	2.5	2.5
10061-02-6	trans-1,3-Dichloropropene	1.2	U	0.50	1.2	2.5	2.5
79-01-6	Trichloroethene	18.7		0.37	1.2	2.5	2.5
75-69-4	Trichlorofluoromethane	1.2	U	0.62	1.2	2.5	2.5
108-05-4	Vinyl acetate	25	U	15	25	50	50
75-01-4	Vinyl chloride	1.2	U	0.62	1.2	2.5	2.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.34 (g/mL)	CTL Sample ID:	356196
% Solids:	83.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 13:02	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.81	U	0.24	0.81	1.6	1.6
71-55-6	1,1,1-Trichloroethane	0.81	U	0.24	0.81	1.6	1.6
79-34-5	1,1,2,2-Tetrachloroethane	0.81	U	0.41	0.81	1.6	1.6
79-00-5	1,1,2-Trichloroethane	0.81	U	0.33	0.81	1.6	1.6
75-34-3	1,1-Dichloroethane	0.81	U	0.33	0.81	1.6	1.6
75-35-4	1,1-Dichloroethene	0.81	U	0.33	0.81	1.6	1.6
563-58-6	1,1-Dichloropropene	0.81	U	0.33	0.81	1.6	1.6
87-61-6	1,2,3-Trichlorobenzene	1.6	U	0.73	1.6	3.3	3.3
96-18-4	1,2,3-Trichloropropane	0.81	U	0.41	0.81	1.6	1.6
120-82-1	1,2,4-Trichlorobenzene	1.6	U	0.73	1.6	3.3	3.3
95-63-6	1,2,4-Trimethylbenzene	1.6	U	0.65	1.6	3.3	3.3
96-12-8	1,2-Dibromo-3-chloropropane	1.6	U	1.1	1.6	3.3	3.3
106-93-4	1,2-Dibromoethane	0.81	U	0.33	0.81	1.6	1.6
95-50-1	1,2-Dichlorobenzene	1.6	U	0.73	1.6	3.3	3.3
107-06-2	1,2-Dichloroethane	0.81	U	0.41	0.81	1.6	1.6
78-87-5	1,2-Dichloropropane	0.81	U	0.33	0.81	1.6	1.6
108-67-8	1,3,5-Trimethylbenzene	1.6	U	0.73	1.6	3.3	3.3
541-73-1	1,3-Dichlorobenzene	1.6	U	0.73	1.6	3.3	3.3
142-28-9	1,3-Dichloropropane	0.81	U	0.33	0.81	1.6	1.6
106-46-7	1,4-Dichlorobenzene	1.6	U	0.73	1.6	3.3	3.3
594-20-7	2,2-Dichloropropane	0.81	U	0.33	0.81	1.6	1.6
78-93-3	2-Butanone	16	U	8.1	16	33	33
95-49-8	2-Chlorotoluene	1.6	U	0.81	1.6	3.3	3.3
591-78-6	2-Hexanone	16	U	8.9	16	33	33

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.34 (g/mL)	CTL Sample ID:	356196
% Solids:	83.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 13:02	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.6	U	0.73	1.6	3.3	3.3
108-10-1	4-Methyl-2-pentanone	16	U	8.1	16	33	33
67-64-1	Acetone	8.94	J	8.1	16	33	33
71-43-2	Benzene	0.81	U	0.24	0.81	1.6	1.6
108-86-1	Bromobenzene	0.81	U	0.41	0.81	1.6	1.6
74-97-5	Bromochloromethane	0.81	U	0.33	0.81	1.6	1.6
75-27-4	Bromodichloromethane	0.81	U	0.33	0.81	1.6	1.6
75-25-2	Bromoform	0.81	U	0.33	0.81	1.6	1.6
74-83-9	Bromomethane	1.6	U Z	0.57	1.6	3.3	3.3
75-15-0	Carbon disulfide	1.6	U	0.73	1.6	3.3	3.3
56-23-5	Carbon tetrachloride	0.81	U	0.24	0.81	1.6	1.6
108-90-7	Chlorobenzene	0.81	U	0.33	0.81	1.6	1.6
75-00-3	Chloroethane	0.81	U	0.41	0.81	1.6	1.6
67-66-3	Chloroform	0.81	U	0.33	0.81	1.6	1.6
74-87-3	Chloromethane	0.81	U	0.33	0.81	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	0.81	U	0.33	0.81	1.6	1.6
10061-01-5	cis-1,3-Dichloropropene	0.81	U	0.24	0.81	1.6	1.6
124-48-1	Dibromochloromethane	0.81	U	0.33	0.81	1.6	1.6
74-95-3	Dibromomethane	0.81	U	0.33	0.81	1.6	1.6
75-71-8	Dichlorodifluoromethane	1.6	U	0.81	1.6	3.3	3.3
100-41-4	Ethylbenzene	0.81	U	0.33	0.81	1.6	1.6
76-13-1	Freon 113	1.6	U	0.81	1.6	3.3	3.3
87-68-3	Hexachlorobutadiene	1.6	U	0.81	1.6	3.3	3.3
98-82-8	Isopropylbenzene	0.81	U	0.24	0.81	1.6	1.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-004 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.34 (g/mL)	CTL Sample ID:	356196
% Solids:	83.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 13:02	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.6	U	0.57	1.6	3.3	3.3
75-09-2	Methylene chloride	1.6	U	1.4	1.6	3.3	3.3
91-20-3	Naphthalene	1.6	U	0.81	1.6	3.3	3.3
104-51-8	n-Butylbenzene	1.6	U	0.73	1.6	3.3	3.3
103-65-1	n-Propylbenzene	1.6	U	0.73	1.6	3.3	3.3
95-47-6	o-Xylene	0.81	U	0.33	0.81	1.6	1.6
99-87-6	p-Isopropyltoluene	1.6	U	0.81	1.6	3.3	3.3
135-98-8	sec-Butylbenzene	1.6	U	0.73	1.6	3.3	3.3
100-42-5	Styrene	0.81	U	0.24	0.81	1.6	1.6
98-06-6	tert-Butylbenzene	1.6	U	0.73	1.6	3.3	3.3
127-18-4	Tetrachloroethene	0.81	U	0.33	0.81	1.6	1.6
108-88-3	Toluene	0.81	U	0.33	0.81	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.33	0.81	1.6	1.6
10061-02-6	trans-1,3-Dichloropropene	0.81	U	0.33	0.81	1.6	1.6
79-01-6	Trichloroethene	0.894	J	0.24	0.81	1.6	1.6
75-69-4	Trichlorofluoromethane	0.81	U	0.41	0.81	1.6	1.6
108-05-4	Vinyl acetate	16	U	9.8	16	33	33
75-01-4	Vinyl chloride	0.81	U	0.41	0.81	1.6	1.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356215
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	200.00
Date & Time Analyzed:	11/14/2019 / 20:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	200	U	80	200	400	400
71-55-6	1,1,1-Trichloroethane	120	U	58	120	200	200
79-34-5	1,1,2,2-Tetrachloroethane	120	U	60	120	200	200
79-00-5	1,1,2-Trichloroethane	120	U	60	120	200	200
75-34-3	1,1-Dichloroethane	120	U	60	120	200	200
75-35-4	1,1-Dichloroethene	200	U	80	200	400	400
563-58-6	1,1-Dichloropropene	120	U	60	120	200	200
87-61-6	1,2,3-Trichlorobenzene	120	U	46	120	200	200
96-18-4	1,2,3-Trichloropropane	120	U	60	120	200	200
120-82-1	1,2,4-Trichlorobenzene	120	U	56	120	200	200
95-63-6	1,2,4-Trimethylbenzene	120	U	58	120	200	200
96-12-8	1,2-Dibromo-3-chloropropane	120	U	50	120	200	200
106-93-4	1,2-Dibromoethane	120	U	60	120	200	200
95-50-1	1,2-Dichlorobenzene	120	U	60	120	200	200
107-06-2	1,2-Dichloroethane	120	U	48	120	200	200
78-87-5	1,2-Dichloropropane	120	U	36	120	200	200
108-67-8	1,3,5-Trimethylbenzene	120	U	54	120	200	200
541-73-1	1,3-Dichlorobenzene	120	U	52	120	200	200
142-28-9	1,3-Dichloropropane	60	U	34	60	120	120
106-46-7	1,4-Dichlorobenzene	120	U	60	120	200	200
594-20-7	2,2-Dichloropropane	120	U	60	120	200	200
78-93-3	2-Butanone	1200	U	520	1200	2000	2000
95-49-8	2-Chlorotoluene	120	U	50	120	200	200
591-78-6	2-Hexanone	1200	U	600	1200	2000	2000

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356215
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	200.00
Date & Time Analyzed:	11/14/2019 / 20:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	120	U	60	120	200	200
108-10-1	4-Methyl-2-pentanone	1200	U	440	1200	2000	2000
67-64-1	Acetone	2000	U	800	2000	4000	4000
71-43-2	Benzene	200	U	80	200	400	400
108-86-1	Bromobenzene	200	U	80	200	400	400
74-97-5	Bromochloromethane	120	U	60	120	200	200
75-27-4	Bromodichloromethane	120	U	58	120	200	200
75-25-2	Bromoform	200	U	80	200	400	400
74-83-9	Bromomethane	400	U	180	400	800	800
75-15-0	Carbon disulfide	400	U	120	400	800	800
56-23-5	Carbon tetrachloride	120	U	60	120	200	200
108-90-7	Chlorobenzene	120	U	60	120	200	200
75-00-3	Chloroethane	200	U	100	200	400	400
67-66-3	Chloroform	120	U	60	120	200	200
74-87-3	Chloromethane	200	U	120	200	400	400
156-59-2	cis-1,2-Dichloroethene	93	J	60	120	200	200
10061-01-5	cis-1,3-Dichloropropene	60	U	32	60	120	120
124-48-1	Dibromochloromethane	120	U	60	120	200	200
74-95-3	Dibromomethane	120	U	44	120	200	200
75-71-8	Dichlorodifluoromethane	200	U	80	200	400	400
100-41-4	Ethylbenzene	120	U	60	120	200	200
76-13-1	Freon 113	400	U	140	400	800	800
87-68-3	Hexachlorobutadiene	200	U	80	200	400	400
98-82-8	Isopropylbenzene	120	U	60	120	200	200

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356215
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	200.00
Date & Time Analyzed:	11/14/2019 / 20:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	240	U	140	240	400	400
75-09-2	Methylene chloride	94	J	80	200	400	400
91-20-3	Naphthalene	120	U	60	120	200	200
104-51-8	n-Butylbenzene	120	U	58	120	200	200
103-65-1	n-Propylbenzene	120	U	60	120	200	200
95-47-6	o-Xylene	120	U	52	120	200	200
99-87-6	p-Isopropyltoluene	120	U	60	120	200	200
135-98-8	sec-Butylbenzene	200	U Z	80	200	400	400
100-42-5	Styrene	120	U	58	120	200	200
98-06-6	tert-Butylbenzene	200	U	80	200	400	400
127-18-4	Tetrachloroethene	120	U	54	120	200	200
108-88-3	Toluene	120	U	42	120	200	200
156-60-5	trans-1,2-Dichloroethene	120	U	60	120	200	200
10061-02-6	trans-1,3-Dichloropropene	120	U	46	120	200	200
79-01-6	Trichloroethene	5400		60	120	200	200
75-69-4	Trichlorofluoromethane	200	U	80	200	400	400
108-05-4	Vinyl acetate	2000	U	1000	2000	4000	4000
75-01-4	Vinyl chloride	60	U	28	60	120	120

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (24-25)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.94 (g/mL)	CTL Sample ID:	356187
% Solids:	81.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 02:30	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.89	U	0.27	0.89	1.8	1.8
71-55-6	1,1,1-Trichloroethane	0.89	U	0.27	0.89	1.8	1.8
79-34-5	1,1,2,2-Tetrachloroethane	0.89	U	0.44	0.89	1.8	1.8
79-00-5	1,1,2-Trichloroethane	0.89	U	0.35	0.89	1.8	1.8
75-34-3	1,1-Dichloroethane	0.89	U	0.35	0.89	1.8	1.8
75-35-4	1,1-Dichloroethene	0.799	J	0.35	0.89	1.8	1.8
563-58-6	1,1-Dichloropropene	0.89	U	0.35	0.89	1.8	1.8
87-61-6	1,2,3-Trichlorobenzene	1.8	U	0.80	1.8	3.5	3.5
96-18-4	1,2,3-Trichloropropane	0.89	U	0.44	0.89	1.8	1.8
120-82-1	1,2,4-Trichlorobenzene	1.8	U	0.80	1.8	3.5	3.5
95-63-6	1,2,4-Trimethylbenzene	1.8	U	0.71	1.8	3.5	3.5
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U	1.2	1.8	3.5	3.5
106-93-4	1,2-Dibromoethane	0.89	U	0.35	0.89	1.8	1.8
95-50-1	1,2-Dichlorobenzene	1.8	U	0.80	1.8	3.5	3.5
107-06-2	1,2-Dichloroethane	0.89	U	0.44	0.89	1.8	1.8
78-87-5	1,2-Dichloropropane	0.89	U	0.35	0.89	1.8	1.8
108-67-8	1,3,5-Trimethylbenzene	1.8	U	0.80	1.8	3.5	3.5
541-73-1	1,3-Dichlorobenzene	1.8	U	0.80	1.8	3.5	3.5
142-28-9	1,3-Dichloropropane	0.89	U	0.35	0.89	1.8	1.8
106-46-7	1,4-Dichlorobenzene	1.8	U	0.80	1.8	3.5	3.5
594-20-7	2,2-Dichloropropane	0.89	U	0.35	0.89	1.8	1.8
78-93-3	2-Butanone	18	U	8.9	18	35	35
95-49-8	2-Chlorotoluene	1.8	U	0.89	1.8	3.5	3.5
591-78-6	2-Hexanone	18	U	9.8	18	35	35

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (24-25)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.94 (g/mL)	CTL Sample ID:	356187
% Solids:	81.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 02:30	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.8	U	0.80	1.8	3.5	3.5
108-10-1	4-Methyl-2-pentanone	18	U	8.9	18	35	35
67-64-1	Acetone	18	U	8.9	18	35	35
71-43-2	Benzene	0.89	U	0.27	0.89	1.8	1.8
108-86-1	Bromobenzene	0.89	U	0.44	0.89	1.8	1.8
74-97-5	Bromochloromethane	0.89	U	0.35	0.89	1.8	1.8
75-27-4	Bromodichloromethane	0.89	U	0.35	0.89	1.8	1.8
75-25-2	Bromoform	0.89	U	0.35	0.89	1.8	1.8
74-83-9	Bromomethane	1.8	U	0.62	1.8	3.5	3.5
75-15-0	Carbon disulfide	1.8	U	0.80	1.8	3.5	3.5
56-23-5	Carbon tetrachloride	0.89	U	0.27	0.89	1.8	1.8
108-90-7	Chlorobenzene	0.89	U	0.35	0.89	1.8	1.8
75-00-3	Chloroethane	0.89	U	0.44	0.89	1.8	1.8
67-66-3	Chloroform	0.89	U	0.35	0.89	1.8	1.8
74-87-3	Chloromethane	0.89	U	0.35	0.89	1.8	1.8
156-59-2	cis-1,2-Dichloroethene	34.2		0.35	0.89	1.8	1.8
10061-01-5	cis-1,3-Dichloropropene	0.89	U	0.27	0.89	1.8	1.8
124-48-1	Dibromochloromethane	0.89	U	0.35	0.89	1.8	1.8
74-95-3	Dibromomethane	0.89	U	0.35	0.89	1.8	1.8
75-71-8	Dichlorodifluoromethane	1.8	U	0.89	1.8	3.5	3.5
100-41-4	Ethylbenzene	0.89	U	0.35	0.89	1.8	1.8
76-13-1	Freon 113	1.8	U	0.89	1.8	3.5	3.5
87-68-3	Hexachlorobutadiene	1.8	U	0.89	1.8	3.5	3.5
98-82-8	Isopropylbenzene	0.89	U	0.27	0.89	1.8	1.8

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (24-25)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.94 (g/mL)	CTL Sample ID:	356187
% Solids:	81.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 02:30	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.8	U	0.62	1.8	3.5	3.5
75-09-2	Methylene chloride	1.8	U	1.5	1.8	3.5	3.5
91-20-3	Naphthalene	1.8	U	0.89	1.8	3.5	3.5
104-51-8	n-Butylbenzene	1.8	U	0.80	1.8	3.5	3.5
103-65-1	n-Propylbenzene	1.8	U	0.80	1.8	3.5	3.5
95-47-6	o-Xylene	0.89	U	0.35	0.89	1.8	1.8
99-87-6	p-Isopropyltoluene	1.8	U	0.89	1.8	3.5	3.5
135-98-8	sec-Butylbenzene	1.8	U	0.80	1.8	3.5	3.5
100-42-5	Styrene	0.89	U	0.27	0.89	1.8	1.8
98-06-6	tert-Butylbenzene	1.8	U	0.80	1.8	3.5	3.5
127-18-4	Tetrachloroethene	0.89	U	0.35	0.89	1.8	1.8
108-88-3	Toluene	0.89	U	0.35	0.89	1.8	1.8
156-60-5	trans-1,2-Dichloroethene	0.89	U	0.35	0.89	1.8	1.8
10061-02-6	trans-1,3-Dichloropropene	0.89	U	0.35	0.89	1.8	1.8
75-69-4	Trichlorofluoromethane	0.89	U	0.44	0.89	1.8	1.8
108-05-4	Vinyl acetate	18	U	11	18	35	35
75-01-4	Vinyl chloride	0.89	U	0.44	0.89	1.8	1.8

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (24-25)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.94 (g/mL)	CTL Sample ID:	356187
% Solids:	81.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/18/2019 / 20:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	1620		21	55	2.2	110

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.84 (g/mL)	CTL Sample ID:	356188
% Solids:	82.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 02:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.31	1.0	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.0	U	0.31	1.0	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.52	1.0	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.0	U	0.41	1.0	2.1	2.1
75-34-3	1,1-Dichloroethane	1.0	U	0.41	1.0	2.1	2.1
75-35-4	1,1-Dichloroethene	0.622	J	0.41	1.0	2.1	2.1
563-58-6	1,1-Dichloropropene	1.0	U	0.41	1.0	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.93	2.1	4.1	4.1
96-18-4	1,2,3-Trichloropropane	1.0	U	0.52	1.0	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.93	2.1	4.1	4.1
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.83	2.1	4.1	4.1
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.3	2.1	4.1	4.1
106-93-4	1,2-Dibromoethane	1.0	U	0.41	1.0	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.93	2.1	4.1	4.1
107-06-2	1,2-Dichloroethane	1.0	U	0.52	1.0	2.1	2.1
78-87-5	1,2-Dichloropropane	1.0	U	0.41	1.0	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.93	2.1	4.1	4.1
541-73-1	1,3-Dichlorobenzene	2.1	U	0.93	2.1	4.1	4.1
142-28-9	1,3-Dichloropropane	1.0	U	0.41	1.0	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.93	2.1	4.1	4.1
594-20-7	2,2-Dichloropropane	1.0	U	0.41	1.0	2.1	2.1
78-93-3	2-Butanone	21	U	10	21	41	41
95-49-8	2-Chlorotoluene	2.1	U	1.0	2.1	4.1	4.1
591-78-6	2-Hexanone	21	U	11	21	41	41

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.84 (g/mL)	CTL Sample ID:	356188
% Solids:	82.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 02:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.1	U	0.93	2.1	4.1	4.1
108-10-1	4-Methyl-2-pentanone	21	U	10	21	41	41
67-64-1	Acetone	21	U	10	21	41	41
71-43-2	Benzene	1.0	U	0.31	1.0	2.1	2.1
108-86-1	Bromobenzene	1.0	U	0.52	1.0	2.1	2.1
74-97-5	Bromochloromethane	1.0	U	0.41	1.0	2.1	2.1
75-27-4	Bromodichloromethane	1.0	U	0.41	1.0	2.1	2.1
75-25-2	Bromoform	1.0	U	0.41	1.0	2.1	2.1
74-83-9	Bromomethane	2.1	U	0.73	2.1	4.1	4.1
75-15-0	Carbon disulfide	2.1	U	0.93	2.1	4.1	4.1
56-23-5	Carbon tetrachloride	1.0	U	0.31	1.0	2.1	2.1
108-90-7	Chlorobenzene	1.0	U	0.41	1.0	2.1	2.1
75-00-3	Chloroethane	1.0	U	0.52	1.0	2.1	2.1
67-66-3	Chloroform	1.0	U	0.41	1.0	2.1	2.1
74-87-3	Chloromethane	1.0	U	0.41	1.0	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	48.7		0.41	1.0	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.31	1.0	2.1	2.1
124-48-1	Dibromochloromethane	1.0	U	0.41	1.0	2.1	2.1
74-95-3	Dibromomethane	1.0	U	0.41	1.0	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U	1.0	2.1	4.1	4.1
100-41-4	Ethylbenzene	1.0	U	0.41	1.0	2.1	2.1
76-13-1	Freon 113	2.1	U	1.0	2.1	4.1	4.1
87-68-3	Hexachlorobutadiene	2.1	U	1.0	2.1	4.1	4.1
98-82-8	Isopropylbenzene	1.0	U	0.31	1.0	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.84 (g/mL)	CTL Sample ID:	356188
% Solids:	82.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 02:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.1	U	0.73	2.1	4.1	4.1
75-09-2	Methylene chloride	2.1	U	1.8	2.1	4.1	4.1
91-20-3	Naphthalene	2.1	U	1.0	2.1	4.1	4.1
104-51-8	n-Butylbenzene	2.1	U	0.93	2.1	4.1	4.1
103-65-1	n-Propylbenzene	2.1	U	0.93	2.1	4.1	4.1
95-47-6	o-Xylene	1.0	U	0.41	1.0	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.0	2.1	4.1	4.1
135-98-8	sec-Butylbenzene	2.1	U	0.93	2.1	4.1	4.1
100-42-5	Styrene	1.0	U	0.31	1.0	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.93	2.1	4.1	4.1
127-18-4	Tetrachloroethene	1.0	U	0.41	1.0	2.1	2.1
108-88-3	Toluene	1.0	U	0.41	1.0	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.41	1.0	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.41	1.0	2.1	2.1
75-69-4	Trichlorofluoromethane	1.0	U	0.52	1.0	2.1	2.1
108-05-4	Vinyl acetate	21	U	12	21	41	41
75-01-4	Vinyl chloride	1.0	U	0.52	1.0	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.84 (g/mL)	CTL Sample ID:	356188
% Solids:	82.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/18/2019 / 20:41	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	957		20	52	2.1	100

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.86 (g/mL)	CTL Sample ID:	356189
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 10:07	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	1.0	U	0.30	1.0	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.51	1.0	2.0	2.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.41	1.0	2.0	2.0
75-34-3	1,1-Dichloroethane	1.0	U	0.41	1.0	2.0	2.0
75-35-4	1,1-Dichloroethene	1.0	U	0.41	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	1.0	U	0.41	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.91	2.0	4.1	4.1
96-18-4	1,2,3-Trichloropropane	1.0	U	0.51	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.91	2.0	4.1	4.1
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.81	2.0	4.1	4.1
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.1	4.1
106-93-4	1,2-Dibromoethane	1.0	U	0.41	1.0	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.91	2.0	4.1	4.1
107-06-2	1,2-Dichloroethane	1.0	U	0.51	1.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U	0.41	1.0	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.91	2.0	4.1	4.1
541-73-1	1,3-Dichlorobenzene	2.0	U	0.91	2.0	4.1	4.1
142-28-9	1,3-Dichloropropane	1.0	U	0.41	1.0	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.91	2.0	4.1	4.1
594-20-7	2,2-Dichloropropane	1.0	U	0.41	1.0	2.0	2.0
78-93-3	2-Butanone	20	U	10	20	41	41
95-49-8	2-Chlorotoluene	2.0	U	1.0	2.0	4.1	4.1
591-78-6	2-Hexanone	20	U	11	20	41	41

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.86 (g/mL)	CTL Sample ID:	356189
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 10:07	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.0	U	0.91	2.0	4.1	4.1
108-10-1	4-Methyl-2-pentanone	20	U	10	20	41	41
67-64-1	Acetone	20	U	10	20	41	41
71-43-2	Benzene	1.0	U	0.30	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.51	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.41	1.0	2.0	2.0
75-27-4	Bromodichloromethane	1.0	U	0.41	1.0	2.0	2.0
75-25-2	Bromoform	1.0	U	0.41	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U Z	0.71	2.0	4.1	4.1
75-15-0	Carbon disulfide	2.0	U	0.91	2.0	4.1	4.1
56-23-5	Carbon tetrachloride	1.0	U	0.30	1.0	2.0	2.0
108-90-7	Chlorobenzene	1.0	U	0.41	1.0	2.0	2.0
75-00-3	Chloroethane	1.0	U	0.51	1.0	2.0	2.0
67-66-3	Chloroform	1.0	U	0.41	1.0	2.0	2.0
74-87-3	Chloromethane	1.0	U	0.41	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	4.26		0.41	1.0	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.30	1.0	2.0	2.0
124-48-1	Dibromochloromethane	1.0	U	0.41	1.0	2.0	2.0
74-95-3	Dibromomethane	1.0	U	0.41	1.0	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U	1.0	2.0	4.1	4.1
100-41-4	Ethylbenzene	1.0	U	0.41	1.0	2.0	2.0
76-13-1	Freon 113	2.0	U	1.0	2.0	4.1	4.1
87-68-3	Hexachlorobutadiene	2.0	U	1.0	2.0	4.1	4.1
98-82-8	Isopropylbenzene	1.0	U	0.30	1.0	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.86 (g/mL)	CTL Sample ID:	356189
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 10:07	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.0	U	0.71	2.0	4.1	4.1
75-09-2	Methylene chloride	2.0	U	1.7	2.0	4.1	4.1
91-20-3	Naphthalene	2.0	U	1.0	2.0	4.1	4.1
104-51-8	n-Butylbenzene	2.0	U	0.91	2.0	4.1	4.1
103-65-1	n-Propylbenzene	2.0	U	0.91	2.0	4.1	4.1
95-47-6	o-Xylene	1.0	U	0.41	1.0	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	1.0	2.0	4.1	4.1
135-98-8	sec-Butylbenzene	2.0	U	0.91	2.0	4.1	4.1
100-42-5	Styrene	1.0	U	0.30	1.0	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.91	2.0	4.1	4.1
127-18-4	Tetrachloroethene	1.0	U	0.41	1.0	2.0	2.0
108-88-3	Toluene	1.0	U	0.41	1.0	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.41	1.0	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.41	1.0	2.0	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.51	1.0	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	41	41
75-01-4	Vinyl chloride	1.0	U	0.51	1.0	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.86 (g/mL)	CTL Sample ID:	356189
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/18/2019 / 21:10	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	271		20	53	110	110

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356212
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	10.00
Date & Time Analyzed:	11/14/2019 / 19:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	10	U	4.0	10	20	20
71-55-6	1,1,1-Trichloroethane	6.0	U	2.9	6.0	10	10
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U	3.0	6.0	10	10
79-00-5	1,1,2-Trichloroethane	6.0	U	3.0	6.0	10	10
75-34-3	1,1-Dichloroethane	6.0	U	3.0	6.0	10	10
75-35-4	1,1-Dichloroethene	10	U	4.0	10	20	20
563-58-6	1,1-Dichloropropene	6.0	U	3.0	6.0	10	10
87-61-6	1,2,3-Trichlorobenzene	6.0	U	2.3	6.0	10	10
96-18-4	1,2,3-Trichloropropane	6.0	U	3.0	6.0	10	10
120-82-1	1,2,4-Trichlorobenzene	6.0	U	2.8	6.0	10	10
95-63-6	1,2,4-Trimethylbenzene	6.0	U	2.9	6.0	10	10
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U	2.5	6.0	10	10
106-93-4	1,2-Dibromoethane	6.0	U	3.0	6.0	10	10
95-50-1	1,2-Dichlorobenzene	6.0	U	3.0	6.0	10	10
107-06-2	1,2-Dichloroethane	6.0	U	2.4	6.0	10	10
78-87-5	1,2-Dichloropropane	6.0	U	1.8	6.0	10	10
108-67-8	1,3,5-Trimethylbenzene	6.0	U	2.7	6.0	10	10
541-73-1	1,3-Dichlorobenzene	6.0	U	2.6	6.0	10	10
142-28-9	1,3-Dichloropropane	3.0	U	1.7	3.0	6.0	6.0
106-46-7	1,4-Dichlorobenzene	6.0	U	3.0	6.0	10	10
594-20-7	2,2-Dichloropropane	6.0	U	3.0	6.0	10	10
78-93-3	2-Butanone	60	U	26	60	100	100
95-49-8	2-Chlorotoluene	6.0	U	2.5	6.0	10	10
591-78-6	2-Hexanone	60	U	30	60	100	100

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356212
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	10.00
Date & Time Analyzed:	11/14/2019 / 19:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	6.0	U	3.0	6.0	10	10
108-10-1	4-Methyl-2-pentanone	60	U	22	60	100	100
67-64-1	Acetone	100	U	40	100	200	200
71-43-2	Benzene	10	U	4.0	10	20	20
108-86-1	Bromobenzene	10	U	4.0	10	20	20
74-97-5	Bromochloromethane	6.0	U	3.0	6.0	10	10
75-27-4	Bromodichloromethane	6.0	U	2.9	6.0	10	10
75-25-2	Bromoform	10	U	4.0	10	20	20
74-83-9	Bromomethane	20	U	9.0	20	40	40
75-15-0	Carbon disulfide	20	U	6.0	20	40	40
56-23-5	Carbon tetrachloride	6.0	U	3.0	6.0	10	10
108-90-7	Chlorobenzene	6.0	U	3.0	6.0	10	10
75-00-3	Chloroethane	10	U	5.0	10	20	20
67-66-3	Chloroform	6.0	U	3.0	6.0	10	10
74-87-3	Chloromethane	10	U	6.0	10	20	20
156-59-2	cis-1,2-Dichloroethene	4.2	J	3.0	6.0	10	10
10061-01-5	cis-1,3-Dichloropropene	3.0	U	1.6	3.0	6.0	6.0
124-48-1	Dibromochloromethane	6.0	U	3.0	6.0	10	10
74-95-3	Dibromomethane	6.0	U	2.2	6.0	10	10
75-71-8	Dichlorodifluoromethane	10	U	4.0	10	20	20
100-41-4	Ethylbenzene	6.0	U	3.0	6.0	10	10
76-13-1	Freon 113	20	U	7.0	20	40	40
87-68-3	Hexachlorobutadiene	10	U	4.0	10	20	20
98-82-8	Isopropylbenzene	6.0	U	3.0	6.0	10	10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356212
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	10.00
Date & Time Analyzed:	11/14/2019 / 19:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	12	U	7.0	12	20	20
75-09-2	Methylene chloride	6.6	J	4.0	10	20	20
91-20-3	Naphthalene	6.0	U	3.0	6.0	10	10
104-51-8	n-Butylbenzene	6.0	U	2.9	6.0	10	10
103-65-1	n-Propylbenzene	6.0	U	3.0	6.0	10	10
95-47-6	o-Xylene	6.0	U	2.6	6.0	10	10
99-87-6	p-Isopropyltoluene	6.0	U	3.0	6.0	10	10
135-98-8	sec-Butylbenzene	10	U Z	4.0	10	20	20
100-42-5	Styrene	6.0	U	2.9	6.0	10	10
98-06-6	tert-Butylbenzene	10	U	4.0	10	20	20
127-18-4	Tetrachloroethene	6.0	U	2.7	6.0	10	10
108-88-3	Toluene	6.0	U	2.1	6.0	10	10
156-60-5	trans-1,2-Dichloroethene	6.0	U	3.0	6.0	10	10
10061-02-6	trans-1,3-Dichloropropene	6.0	U	2.3	6.0	10	10
79-01-6	Trichloroethene	230		3.0	6.0	10	10
75-69-4	Trichlorofluoromethane	10	U	4.0	10	20	20
108-05-4	Vinyl acetate	100	U	50	100	200	200
75-01-4	Vinyl chloride	3.0	U	1.4	3.0	6.0	6.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006 (20-21)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.69 (g/mL)	CTL Sample ID:	356183
% Solids:	85.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 01:03	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U	0.37	1.2	2.5	2.5
71-55-6	1,1,1-Trichloroethane	1.2	U	0.37	1.2	2.5	2.5
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U	0.62	1.2	2.5	2.5
79-00-5	1,1,2-Trichloroethane	1.2	U	0.50	1.2	2.5	2.5
75-34-3	1,1-Dichloroethane	1.2	U	0.50	1.2	2.5	2.5
75-35-4	1,1-Dichloroethene	1.2	U	0.50	1.2	2.5	2.5
563-58-6	1,1-Dichloropropene	1.2	U	0.50	1.2	2.5	2.5
87-61-6	1,2,3-Trichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
96-18-4	1,2,3-Trichloropropane	1.2	U	0.62	1.2	2.5	2.5
120-82-1	1,2,4-Trichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
95-63-6	1,2,4-Trimethylbenzene	2.5	U	1.0	2.5	5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U	1.6	2.5	5.0	5.0
106-93-4	1,2-Dibromoethane	1.2	U	0.50	1.2	2.5	2.5
95-50-1	1,2-Dichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
107-06-2	1,2-Dichloroethane	1.2	U	0.62	1.2	2.5	2.5
78-87-5	1,2-Dichloropropane	1.2	U	0.50	1.2	2.5	2.5
108-67-8	1,3,5-Trimethylbenzene	2.5	U	1.1	2.5	5.0	5.0
541-73-1	1,3-Dichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
142-28-9	1,3-Dichloropropane	1.2	U	0.50	1.2	2.5	2.5
106-46-7	1,4-Dichlorobenzene	2.5	U	1.1	2.5	5.0	5.0
594-20-7	2,2-Dichloropropane	1.2	U	0.50	1.2	2.5	2.5
78-93-3	2-Butanone	25	U	12	25	50	50
95-49-8	2-Chlorotoluene	2.5	U	1.2	2.5	5.0	5.0
591-78-6	2-Hexanone	25	U	14	25	50	50

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006 (20-21)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.69 (g/mL)	CTL Sample ID:	356183
% Solids:	85.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 01:03	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.5	U	1.1	2.5	5.0	5.0
108-10-1	4-Methyl-2-pentanone	25	U	12	25	50	50
67-64-1	Acetone	25	U	12	25	50	50
71-43-2	Benzene	1.2	U	0.37	1.2	2.5	2.5
108-86-1	Bromobenzene	1.2	U	0.62	1.2	2.5	2.5
74-97-5	Bromochloromethane	1.2	U	0.50	1.2	2.5	2.5
75-27-4	Bromodichloromethane	1.2	U	0.50	1.2	2.5	2.5
75-25-2	Bromoform	1.2	U	0.50	1.2	2.5	2.5
74-83-9	Bromomethane	2.5	U	0.87	2.5	5.0	5.0
75-15-0	Carbon disulfide	2.5	U	1.1	2.5	5.0	5.0
56-23-5	Carbon tetrachloride	1.2	U	0.37	1.2	2.5	2.5
108-90-7	Chlorobenzene	1.2	U	0.50	1.2	2.5	2.5
75-00-3	Chloroethane	1.2	U	0.62	1.2	2.5	2.5
67-66-3	Chloroform	1.2	U	0.50	1.2	2.5	2.5
74-87-3	Chloromethane	1.2	U	0.50	1.2	2.5	2.5
156-59-2	cis-1,2-Dichloroethene	1.99	J	0.50	1.2	2.5	2.5
10061-01-5	cis-1,3-Dichloropropene	1.2	U	0.37	1.2	2.5	2.5
124-48-1	Dibromochloromethane	1.2	U	0.50	1.2	2.5	2.5
74-95-3	Dibromomethane	1.2	U	0.50	1.2	2.5	2.5
75-71-8	Dichlorodifluoromethane	2.5	U	1.2	2.5	5.0	5.0
100-41-4	Ethylbenzene	1.2	U	0.50	1.2	2.5	2.5
76-13-1	Freon 113	2.5	U	1.2	2.5	5.0	5.0
87-68-3	Hexachlorobutadiene	2.5	U	1.2	2.5	5.0	5.0
98-82-8	Isopropylbenzene	1.2	U	0.37	1.2	2.5	2.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006 (20-21)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.69 (g/mL)	CTL Sample ID:	356183
% Solids:	85.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 01:03	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.5	U	0.87	2.5	5.0	5.0
75-09-2	Methylene chloride	2.5	U	2.1	2.5	5.0	5.0
91-20-3	Naphthalene	2.5	U	1.2	2.5	5.0	5.0
104-51-8	n-Butylbenzene	2.5	U	1.1	2.5	5.0	5.0
103-65-1	n-Propylbenzene	2.5	U	1.1	2.5	5.0	5.0
95-47-6	o-Xylene	1.2	U	0.50	1.2	2.5	2.5
99-87-6	p-Isopropyltoluene	2.5	U	1.2	2.5	5.0	5.0
135-98-8	sec-Butylbenzene	2.5	U	1.1	2.5	5.0	5.0
100-42-5	Styrene	1.2	U	0.37	1.2	2.5	2.5
98-06-6	tert-Butylbenzene	2.5	U	1.1	2.5	5.0	5.0
127-18-4	Tetrachloroethene	1.2	U	0.50	1.2	2.5	2.5
108-88-3	Toluene	1.2	U	0.50	1.2	2.5	2.5
156-60-5	trans-1,2-Dichloroethene	1.2	U	0.50	1.2	2.5	2.5
10061-02-6	trans-1,3-Dichloropropene	1.2	U	0.50	1.2	2.5	2.5
79-01-6	Trichloroethene	68.4		0.37	1.2	2.5	2.5
75-69-4	Trichlorofluoromethane	1.2	U	0.62	1.2	2.5	2.5
108-05-4	Vinyl acetate	25	U	15	25	50	50
75-01-4	Vinyl chloride	1.2	U	0.62	1.2	2.5	2.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.46 (g/mL)	CTL Sample ID:	356184
% Solids:	83.4	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 01:32	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.33	1.1	2.2	2.2
71-55-6	1,1,1-Trichloroethane	1.1	U	0.33	1.1	2.2	2.2
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.55	1.1	2.2	2.2
79-00-5	1,1,2-Trichloroethane	1.1	U	0.44	1.1	2.2	2.2
75-34-3	1,1-Dichloroethane	1.1	U	0.44	1.1	2.2	2.2
75-35-4	1,1-Dichloroethene	1.1	U	0.44	1.1	2.2	2.2
563-58-6	1,1-Dichloropropene	1.1	U	0.44	1.1	2.2	2.2
87-61-6	1,2,3-Trichlorobenzene	2.2	U	0.99	2.2	4.4	4.4
96-18-4	1,2,3-Trichloropropane	1.1	U	0.55	1.1	2.2	2.2
120-82-1	1,2,4-Trichlorobenzene	2.2	U	0.99	2.2	4.4	4.4
95-63-6	1,2,4-Trimethylbenzene	2.2	U	0.88	2.2	4.4	4.4
96-12-8	1,2-Dibromo-3-chloropropane	2.2	U	1.4	2.2	4.4	4.4
106-93-4	1,2-Dibromoethane	1.1	U	0.44	1.1	2.2	2.2
95-50-1	1,2-Dichlorobenzene	2.2	U	0.99	2.2	4.4	4.4
107-06-2	1,2-Dichloroethane	1.1	U	0.55	1.1	2.2	2.2
78-87-5	1,2-Dichloropropane	1.1	U	0.44	1.1	2.2	2.2
108-67-8	1,3,5-Trimethylbenzene	2.2	U	0.99	2.2	4.4	4.4
541-73-1	1,3-Dichlorobenzene	2.2	U	0.99	2.2	4.4	4.4
142-28-9	1,3-Dichloropropane	1.1	U	0.44	1.1	2.2	2.2
106-46-7	1,4-Dichlorobenzene	2.2	U	0.99	2.2	4.4	4.4
594-20-7	2,2-Dichloropropane	1.1	U	0.44	1.1	2.2	2.2
78-93-3	2-Butanone	22	U	11	22	44	44
95-49-8	2-Chlorotoluene	2.2	U	1.1	2.2	4.4	4.4
591-78-6	2-Hexanone	22	U	12	22	44	44

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.46 (g/mL)	CTL Sample ID:	356184
% Solids:	83.4	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 01:32	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.2	U	0.99	2.2	4.4	4.4
108-10-1	4-Methyl-2-pentanone	22	U	11	22	44	44
67-64-1	Acetone	22	U	11	22	44	44
71-43-2	Benzene	1.1	U	0.33	1.1	2.2	2.2
108-86-1	Bromobenzene	1.1	U	0.55	1.1	2.2	2.2
74-97-5	Bromochloromethane	1.1	U	0.44	1.1	2.2	2.2
75-27-4	Bromodichloromethane	1.1	U	0.44	1.1	2.2	2.2
75-25-2	Bromoform	1.1	U	0.44	1.1	2.2	2.2
74-83-9	Bromomethane	2.2	U	0.77	2.2	4.4	4.4
75-15-0	Carbon disulfide	2.2	U	0.99	2.2	4.4	4.4
56-23-5	Carbon tetrachloride	1.1	U	0.33	1.1	2.2	2.2
108-90-7	Chlorobenzene	1.1	U	0.44	1.1	2.2	2.2
75-00-3	Chloroethane	1.1	U	0.55	1.1	2.2	2.2
67-66-3	Chloroform	1.1	U	0.44	1.1	2.2	2.2
74-87-3	Chloromethane	1.1	U	0.44	1.1	2.2	2.2
156-59-2	cis-1,2-Dichloroethene	5.60		0.44	1.1	2.2	2.2
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.33	1.1	2.2	2.2
124-48-1	Dibromochloromethane	1.1	U	0.44	1.1	2.2	2.2
74-95-3	Dibromomethane	1.1	U	0.44	1.1	2.2	2.2
75-71-8	Dichlorodifluoromethane	2.2	U	1.1	2.2	4.4	4.4
100-41-4	Ethylbenzene	1.1	U	0.44	1.1	2.2	2.2
76-13-1	Freon 113	2.2	U	1.1	2.2	4.4	4.4
87-68-3	Hexachlorobutadiene	2.2	U	1.1	2.2	4.4	4.4
98-82-8	Isopropylbenzene	1.1	U	0.33	1.1	2.2	2.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.46 (g/mL)	CTL Sample ID:	356184
% Solids:	83.4	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 01:32	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.2	U	0.77	2.2	4.4	4.4
75-09-2	Methylene chloride	2.2	U	1.9	2.2	4.4	4.4
91-20-3	Naphthalene	2.2	U	1.1	2.2	4.4	4.4
104-51-8	n-Butylbenzene	2.2	U	0.99	2.2	4.4	4.4
103-65-1	n-Propylbenzene	2.2	U	0.99	2.2	4.4	4.4
95-47-6	o-Xylene	1.1	U	0.44	1.1	2.2	2.2
99-87-6	p-Isopropyltoluene	2.2	U	1.1	2.2	4.4	4.4
135-98-8	sec-Butylbenzene	2.2	U	0.99	2.2	4.4	4.4
100-42-5	Styrene	1.1	U	0.33	1.1	2.2	2.2
98-06-6	tert-Butylbenzene	2.2	U	0.99	2.2	4.4	4.4
127-18-4	Tetrachloroethene	1.1	U	0.44	1.1	2.2	2.2
108-88-3	Toluene	1.1	U	0.44	1.1	2.2	2.2
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.44	1.1	2.2	2.2
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.44	1.1	2.2	2.2
75-69-4	Trichlorofluoromethane	1.1	U	0.55	1.1	2.2	2.2
108-05-4	Vinyl acetate	22	U	13	22	44	44
75-01-4	Vinyl chloride	1.1	U	0.55	1.1	2.2	2.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.46 (g/mL)	CTL Sample ID:	356184
% Solids:	83.4	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/18/2019 / 19:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	191		20	52	2.1	100

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006(30-31)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	3.37 (g/mL)	CTL Sample ID:	356185
% Solids:	83.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 14:08	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.8	U	0.53	1.8	3.5	3.5
71-55-6	1,1,1-Trichloroethane	1.8	U	0.53	1.8	3.5	3.5
79-34-5	1,1,2,2-Tetrachloroethane	1.8	U	0.89	1.8	3.5	3.5
79-00-5	1,1,2-Trichloroethane	1.8	U	0.71	1.8	3.5	3.5
75-34-3	1,1-Dichloroethane	1.8	U	0.71	1.8	3.5	3.5
75-35-4	1,1-Dichloroethene	1.8	U	0.71	1.8	3.5	3.5
563-58-6	1,1-Dichloropropene	1.8	U	0.71	1.8	3.5	3.5
87-61-6	1,2,3-Trichlorobenzene	3.5	U	1.6	3.5	7.1	7.1
96-18-4	1,2,3-Trichloropropane	1.8	U M	0.89	1.8	3.5	3.5
120-82-1	1,2,4-Trichlorobenzene	3.5	U M	1.6	3.5	7.1	7.1
95-63-6	1,2,4-Trimethylbenzene	3.5	U	1.4	3.5	7.1	7.1
96-12-8	1,2-Dibromo-3-chloropropane	3.5	U	2.3	3.5	7.1	7.1
106-93-4	1,2-Dibromoethane	1.8	U	0.71	1.8	3.5	3.5
95-50-1	1,2-Dichlorobenzene	3.5	U M	1.6	3.5	7.1	7.1
107-06-2	1,2-Dichloroethane	1.8	U	0.89	1.8	3.5	3.5
78-87-5	1,2-Dichloropropane	1.8	U	0.71	1.8	3.5	3.5
108-67-8	1,3,5-Trimethylbenzene	3.5	U	1.6	3.5	7.1	7.1
541-73-1	1,3-Dichlorobenzene	3.5	U	1.6	3.5	7.1	7.1
142-28-9	1,3-Dichloropropane	1.8	U	0.71	1.8	3.5	3.5
106-46-7	1,4-Dichlorobenzene	3.5	U	1.6	3.5	7.1	7.1
594-20-7	2,2-Dichloropropane	1.8	U	0.71	1.8	3.5	3.5
78-93-3	2-Butanone	35	U	18	35	71	71
95-49-8	2-Chlorotoluene	3.5	U	1.8	3.5	7.1	7.1
591-78-6	2-Hexanone	35	U	19	35	71	71

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006(30-31)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	3.37 (g/mL)	CTL Sample ID:	356185
% Solids:	83.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 14:08	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	3.5	U	1.6	3.5	7.1	7.1
108-10-1	4-Methyl-2-pentanone	35	U	18	35	71	71
67-64-1	Acetone	35	U	18	35	71	71
71-43-2	Benzene	1.8	U	0.53	1.8	3.5	3.5
108-86-1	Bromobenzene	1.8	U	0.89	1.8	3.5	3.5
74-97-5	Bromochloromethane	1.8	U	0.71	1.8	3.5	3.5
75-27-4	Bromodichloromethane	1.8	U	0.71	1.8	3.5	3.5
75-25-2	Bromoform	1.8	U	0.71	1.8	3.5	3.5
74-83-9	Bromomethane	3.5	U Z	1.2	3.5	7.1	7.1
75-15-0	Carbon disulfide	3.5	U	1.6	3.5	7.1	7.1
56-23-5	Carbon tetrachloride	1.8	U	0.53	1.8	3.5	3.5
108-90-7	Chlorobenzene	1.8	U	0.71	1.8	3.5	3.5
75-00-3	Chloroethane	1.8	U	0.89	1.8	3.5	3.5
67-66-3	Chloroform	1.8	U	0.71	1.8	3.5	3.5
74-87-3	Chloromethane	1.8	U	0.71	1.8	3.5	3.5
156-59-2	cis-1,2-Dichloroethene	1.8	U	0.71	1.8	3.5	3.5
10061-01-5	cis-1,3-Dichloropropene	1.8	U	0.53	1.8	3.5	3.5
124-48-1	Dibromochloromethane	1.8	U	0.71	1.8	3.5	3.5
74-95-3	Dibromomethane	1.8	U	0.71	1.8	3.5	3.5
75-71-8	Dichlorodifluoromethane	3.5	U Z	1.8	3.5	7.1	7.1
100-41-4	Ethylbenzene	1.8	U	0.71	1.8	3.5	3.5
76-13-1	Freon 113	3.5	U	1.8	3.5	7.1	7.1
87-68-3	Hexachlorobutadiene	3.5	U	1.8	3.5	7.1	7.1
98-82-8	Isopropylbenzene	1.8	U	0.53	1.8	3.5	3.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-006(30-31)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	3.37 (g/mL)	CTL Sample ID:	356185
% Solids:	83.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 14:08	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	3.5	U	1.2	3.5	7.1	7.1
75-09-2	Methylene chloride	3.5	U Z,M	3.0	3.5	7.1	7.1
91-20-3	Naphthalene	3.5	U M	1.8	3.5	7.1	7.1
104-51-8	n-Butylbenzene	3.5	U	1.6	3.5	7.1	7.1
103-65-1	n-Propylbenzene	3.5	U	1.6	3.5	7.1	7.1
95-47-6	o-Xylene	1.8	U	0.71	1.8	3.5	3.5
99-87-6	p-Isopropyltoluene	3.5	U	1.8	3.5	7.1	7.1
135-98-8	sec-Butylbenzene	3.5	U	1.6	3.5	7.1	7.1
100-42-5	Styrene	1.8	U	0.53	1.8	3.5	3.5
98-06-6	tert-Butylbenzene	3.5	U	1.6	3.5	7.1	7.1
127-18-4	Tetrachloroethene	1.8	U	0.71	1.8	3.5	3.5
108-88-3	Toluene	1.8	U	0.71	1.8	3.5	3.5
156-60-5	trans-1,2-Dichloroethene	1.8	U	0.71	1.8	3.5	3.5
10061-02-6	trans-1,3-Dichloropropene	1.8	U	0.71	1.8	3.5	3.5
79-01-6	Trichloroethene	1.24	J	0.53	1.8	3.5	3.5
75-69-4	Trichlorofluoromethane	1.8	U	0.89	1.8	3.5	3.5
108-05-4	Vinyl acetate	35	U	21	35	71	71
75-01-4	Vinyl chloride	1.8	U	0.89	1.8	3.5	3.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356213
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	2000.00
Date & Time Analyzed:	11/14/2019 / 19:42	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	2000	U	800	2000	4000	4000
71-55-6	1,1,1-Trichloroethane	1200	U	580	1200	2000	2000
79-34-5	1,1,2,2-Tetrachloroethane	1200	U	600	1200	2000	2000
79-00-5	1,1,2-Trichloroethane	1200	U	600	1200	2000	2000
75-34-3	1,1-Dichloroethane	1200	U	600	1200	2000	2000
75-35-4	1,1-Dichloroethene	2000	U	800	2000	4000	4000
563-58-6	1,1-Dichloropropene	1200	U	600	1200	2000	2000
87-61-6	1,2,3-Trichlorobenzene	1200	U	460	1200	2000	2000
96-18-4	1,2,3-Trichloropropane	1200	U	600	1200	2000	2000
120-82-1	1,2,4-Trichlorobenzene	1200	U	560	1200	2000	2000
95-63-6	1,2,4-Trimethylbenzene	1200	U	580	1200	2000	2000
96-12-8	1,2-Dibromo-3-chloropropane	1200	U	500	1200	2000	2000
106-93-4	1,2-Dibromoethane	1200	U	600	1200	2000	2000
95-50-1	1,2-Dichlorobenzene	1200	U	600	1200	2000	2000
107-06-2	1,2-Dichloroethane	1200	U	480	1200	2000	2000
78-87-5	1,2-Dichloropropane	1200	U	360	1200	2000	2000
108-67-8	1,3,5-Trimethylbenzene	1200	U	540	1200	2000	2000
541-73-1	1,3-Dichlorobenzene	1200	U	520	1200	2000	2000
142-28-9	1,3-Dichloropropane	600	U	340	600	1200	1200
106-46-7	1,4-Dichlorobenzene	1200	U	600	1200	2000	2000
594-20-7	2,2-Dichloropropane	1200	U	600	1200	2000	2000
78-93-3	2-Butanone	12000	U	5200	12000	20000	20000
95-49-8	2-Chlorotoluene	1200	U	500	1200	2000	2000
591-78-6	2-Hexanone	12000	U	6000	12000	20000	20000

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356213
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	2000.00
Date & Time Analyzed:	11/14/2019 / 19:42	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1200	U	600	1200	2000	2000
108-10-1	4-Methyl-2-pentanone	12000	U	4400	12000	20000	20000
67-64-1	Acetone	20000	U	8000	20000	40000	40000
71-43-2	Benzene	2000	U	800	2000	4000	4000
108-86-1	Bromobenzene	2000	U	800	2000	4000	4000
74-97-5	Bromochloromethane	1200	U	600	1200	2000	2000
75-27-4	Bromodichloromethane	1200	U	580	1200	2000	2000
75-25-2	Bromoform	2000	U	800	2000	4000	4000
74-83-9	Bromomethane	4000	U	1800	4000	8000	8000
75-15-0	Carbon disulfide	4000	U	1200	4000	8000	8000
56-23-5	Carbon tetrachloride	1200	U	600	1200	2000	2000
108-90-7	Chlorobenzene	1200	U	600	1200	2000	2000
75-00-3	Chloroethane	2000	U	1000	2000	4000	4000
67-66-3	Chloroform	1200	U	600	1200	2000	2000
74-87-3	Chloromethane	2000	U	1200	2000	4000	4000
156-59-2	cis-1,2-Dichloroethene	840	J	600	1200	2000	2000
10061-01-5	cis-1,3-Dichloropropene	600	U	320	600	1200	1200
124-48-1	Dibromochloromethane	1200	U	600	1200	2000	2000
74-95-3	Dibromomethane	1200	U	440	1200	2000	2000
75-71-8	Dichlorodifluoromethane	2000	U	800	2000	4000	4000
100-41-4	Ethylbenzene	1200	U	600	1200	2000	2000
76-13-1	Freon 113	4000	U	1400	4000	8000	8000
87-68-3	Hexachlorobutadiene	2000	U	800	2000	4000	4000
98-82-8	Isopropylbenzene	1200	U	600	1200	2000	2000

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356213
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	2000.00
Date & Time Analyzed:	11/14/2019 / 19:42	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2400	U	1400	2400	4000	4000
75-09-2	Methylene chloride	2000	U	800	2000	4000	4000
91-20-3	Naphthalene	1200	U	600	1200	2000	2000
104-51-8	n-Butylbenzene	1200	U	580	1200	2000	2000
103-65-1	n-Propylbenzene	1200	U	600	1200	2000	2000
95-47-6	o-Xylene	1200	U	520	1200	2000	2000
99-87-6	p-Isopropyltoluene	1200	U	600	1200	2000	2000
135-98-8	sec-Butylbenzene	2000	U Z	800	2000	4000	4000
100-42-5	Styrene	1200	U	580	1200	2000	2000
98-06-6	tert-Butylbenzene	2000	U	800	2000	4000	4000
127-18-4	Tetrachloroethene	1200	U	540	1200	2000	2000
108-88-3	Toluene	1200	U	420	1200	2000	2000
156-60-5	trans-1,2-Dichloroethene	1200	U	600	1200	2000	2000
10061-02-6	trans-1,3-Dichloropropene	1200	U	460	1200	2000	2000
79-01-6	Trichloroethene	77000		600	1200	2000	2000
75-69-4	Trichlorofluoromethane	2000	U	800	2000	4000	4000
108-05-4	Vinyl acetate	20000	U	10000	20000	40000	40000
75-01-4	Vinyl chloride	600	U	280	600	1200	1200

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.70 (g/mL)	CTL Sample ID:	356191
% Solids:	82.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 10:36	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.53	1.1	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-34-3	1,1-Dichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-35-4	1,1-Dichloroethene	2.97		0.42	1.1	2.1	2.1
563-58-6	1,1-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
96-18-4	1,2,3-Trichloropropane	1.1	U	0.53	1.1	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.85	2.1	4.2	4.2
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.4	2.1	4.2	4.2
106-93-4	1,2-Dibromoethane	1.1	U	0.42	1.1	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
107-06-2	1,2-Dichloroethane	1.1	U	0.53	1.1	2.1	2.1
78-87-5	1,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.95	2.1	4.2	4.2
541-73-1	1,3-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
142-28-9	1,3-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
594-20-7	2,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
78-93-3	2-Butanone	21	U	11	21	42	42
95-49-8	2-Chlorotoluene	2.1	U	1.1	2.1	4.2	4.2
591-78-6	2-Hexanone	21	U	12	21	42	42

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.70 (g/mL)	CTL Sample ID:	356191
% Solids:	82.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 10:36	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.1	U	0.95	2.1	4.2	4.2
108-10-1	4-Methyl-2-pentanone	21	U	11	21	42	42
67-64-1	Acetone	21	U	11	21	42	42
71-43-2	Benzene	1.1	U	0.32	1.1	2.1	2.1
108-86-1	Bromobenzene	1.1	U	0.53	1.1	2.1	2.1
74-97-5	Bromochloromethane	1.1	U	0.42	1.1	2.1	2.1
75-27-4	Bromodichloromethane	1.1	U	0.42	1.1	2.1	2.1
75-25-2	Bromoform	1.1	U	0.42	1.1	2.1	2.1
74-83-9	Bromomethane	2.1	U Z	0.74	2.1	4.2	4.2
75-15-0	Carbon disulfide	2.1	U	0.95	2.1	4.2	4.2
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.1	2.1
108-90-7	Chlorobenzene	1.1	U	0.42	1.1	2.1	2.1
75-00-3	Chloroethane	1.1	U	0.53	1.1	2.1	2.1
67-66-3	Chloroform	1.1	U	0.42	1.1	2.1	2.1
74-87-3	Chloromethane	1.1	U	0.42	1.1	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.1	2.1
124-48-1	Dibromochloromethane	1.1	U	0.42	1.1	2.1	2.1
74-95-3	Dibromomethane	1.1	U	0.42	1.1	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U	1.1	2.1	4.2	4.2
100-41-4	Ethylbenzene	1.1	U	0.42	1.1	2.1	2.1
76-13-1	Freon 113	2.1	U	1.1	2.1	4.2	4.2
87-68-3	Hexachlorobutadiene	2.1	U	1.1	2.1	4.2	4.2
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.1	2.1
179601-23-1	m & p-Xylene	2.1	U	0.74	2.1	4.2	4.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.70 (g/mL)	CTL Sample ID:	356191
% Solids:	82.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 10:36	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
75-09-2	Methylene chloride	2.1	U	1.8	2.1	4.2	4.2
91-20-3	Naphthalene	2.1	U	1.1	2.1	4.2	4.2
104-51-8	n-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
103-65-1	n-Propylbenzene	2.1	U	0.95	2.1	4.2	4.2
95-47-6	o-Xylene	1.1	U	0.42	1.1	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.1	2.1	4.2	4.2
135-98-8	sec-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
100-42-5	Styrene	1.1	U	0.32	1.1	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
127-18-4	Tetrachloroethene	1.1	U	0.42	1.1	2.1	2.1
108-88-3	Toluene	0.955	J	0.42	1.1	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
75-69-4	Trichlorofluoromethane	1.1	U	0.53	1.1	2.1	2.1
108-05-4	Vinyl acetate	21	U	13	21	42	42
75-01-4	Vinyl chloride	4.56		0.53	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.70 (g/mL)	CTL Sample ID:	356191
% Solids:	82.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/19/2019 / 13:49	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
156-59-2	cis-1,2-Dichloroethene	84.0	J	28	52	100	100

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.70 (g/mL)	CTL Sample ID:	356191
% Solids:	82.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	2.00
Date & Time Analyzed:	11/18/2019 / 21:38	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	6210		40	100	210	210

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	356192
% Solids:	82.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 11:05	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.2	2.2
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.2	2.2
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.54	1.1	2.2	2.2
79-00-5	1,1,2-Trichloroethane	1.1	U	0.43	1.1	2.2	2.2
75-34-3	1,1-Dichloroethane	1.1	U	0.43	1.1	2.2	2.2
75-35-4	1,1-Dichloroethene	0.647	J	0.43	1.1	2.2	2.2
563-58-6	1,1-Dichloropropene	1.1	U	0.43	1.1	2.2	2.2
87-61-6	1,2,3-Trichlorobenzene	2.2	U	0.97	2.2	4.3	4.3
96-18-4	1,2,3-Trichloropropane	1.1	U	0.54	1.1	2.2	2.2
120-82-1	1,2,4-Trichlorobenzene	2.2	U	0.97	2.2	4.3	4.3
95-63-6	1,2,4-Trimethylbenzene	2.2	U	0.86	2.2	4.3	4.3
96-12-8	1,2-Dibromo-3-chloropropane	2.2	U	1.4	2.2	4.3	4.3
106-93-4	1,2-Dibromoethane	1.1	U	0.43	1.1	2.2	2.2
95-50-1	1,2-Dichlorobenzene	2.2	U	0.97	2.2	4.3	4.3
107-06-2	1,2-Dichloroethane	1.1	U	0.54	1.1	2.2	2.2
78-87-5	1,2-Dichloropropane	1.1	U	0.43	1.1	2.2	2.2
108-67-8	1,3,5-Trimethylbenzene	2.2	U	0.97	2.2	4.3	4.3
541-73-1	1,3-Dichlorobenzene	2.2	U	0.97	2.2	4.3	4.3
142-28-9	1,3-Dichloropropane	1.1	U	0.43	1.1	2.2	2.2
106-46-7	1,4-Dichlorobenzene	2.2	U	0.97	2.2	4.3	4.3
594-20-7	2,2-Dichloropropane	1.1	U	0.43	1.1	2.2	2.2
78-93-3	2-Butanone	22	U	11	22	43	43
95-49-8	2-Chlorotoluene	2.2	U	1.1	2.2	4.3	4.3
591-78-6	2-Hexanone	22	U	12	22	43	43

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	356192
% Solids:	82.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 11:05	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.2	U	0.97	2.2	4.3	4.3
108-10-1	4-Methyl-2-pentanone	22	U	11	22	43	43
67-64-1	Acetone	22	U	11	22	43	43
71-43-2	Benzene	1.1	U	0.32	1.1	2.2	2.2
108-86-1	Bromobenzene	1.1	U	0.54	1.1	2.2	2.2
74-97-5	Bromochloromethane	1.1	U	0.43	1.1	2.2	2.2
75-27-4	Bromodichloromethane	1.1	U	0.43	1.1	2.2	2.2
75-25-2	Bromoform	1.1	U	0.43	1.1	2.2	2.2
74-83-9	Bromomethane	2.2	U Z	0.75	2.2	4.3	4.3
75-15-0	Carbon disulfide	2.2	U	0.97	2.2	4.3	4.3
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.2	2.2
108-90-7	Chlorobenzene	1.1	U	0.43	1.1	2.2	2.2
75-00-3	Chloroethane	1.1	U	0.54	1.1	2.2	2.2
67-66-3	Chloroform	1.1	U	0.43	1.1	2.2	2.2
74-87-3	Chloromethane	1.1	U	0.43	1.1	2.2	2.2
156-59-2	cis-1,2-Dichloroethene	54.1		0.43	1.1	2.2	2.2
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.2	2.2
124-48-1	Dibromochloromethane	1.1	U	0.43	1.1	2.2	2.2
74-95-3	Dibromomethane	1.1	U	0.43	1.1	2.2	2.2
75-71-8	Dichlorodifluoromethane	2.2	U	1.1	2.2	4.3	4.3
100-41-4	Ethylbenzene	1.1	U	0.43	1.1	2.2	2.2
76-13-1	Freon 113	2.2	U	1.1	2.2	4.3	4.3
87-68-3	Hexachlorobutadiene	2.2	U	1.1	2.2	4.3	4.3
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.2	2.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	356192
% Solids:	82.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 11:05	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.2	U	0.75	2.2	4.3	4.3
75-09-2	Methylene chloride	2.2	U	1.8	2.2	4.3	4.3
91-20-3	Naphthalene	2.2	U	1.1	2.2	4.3	4.3
104-51-8	n-Butylbenzene	2.2	U	0.97	2.2	4.3	4.3
103-65-1	n-Propylbenzene	2.2	U	0.97	2.2	4.3	4.3
95-47-6	o-Xylene	1.1	U	0.43	1.1	2.2	2.2
99-87-6	p-Isopropyltoluene	2.2	U	1.1	2.2	4.3	4.3
135-98-8	sec-Butylbenzene	2.2	U	0.97	2.2	4.3	4.3
100-42-5	Styrene	1.1	U	0.32	1.1	2.2	2.2
98-06-6	tert-Butylbenzene	2.2	U	0.97	2.2	4.3	4.3
127-18-4	Tetrachloroethene	1.1	U	0.43	1.1	2.2	2.2
108-88-3	Toluene	0.755	J	0.43	1.1	2.2	2.2
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.43	1.1	2.2	2.2
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.43	1.1	2.2	2.2
75-69-4	Trichlorofluoromethane	1.1	U	0.54	1.1	2.2	2.2
108-05-4	Vinyl acetate	22	U	13	22	43	43
75-01-4	Vinyl chloride	1.29	J	0.54	1.1	2.2	2.2

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	356192
% Solids:	82.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/18/2019 / 22:07	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	1760		19	51	100	100

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.39 (g/mL)	CTL Sample ID:	356193
% Solids:	80.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 11:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.34	1.1	2.3	2.3
71-55-6	1,1,1-Trichloroethane	1.1	U	0.34	1.1	2.3	2.3
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.57	1.1	2.3	2.3
79-00-5	1,1,2-Trichloroethane	1.1	U	0.46	1.1	2.3	2.3
75-34-3	1,1-Dichloroethane	1.1	U	0.46	1.1	2.3	2.3
75-35-4	1,1-Dichloroethene	0.460	J	0.46	1.1	2.3	2.3
563-58-6	1,1-Dichloropropene	1.1	U	0.46	1.1	2.3	2.3
87-61-6	1,2,3-Trichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
96-18-4	1,2,3-Trichloropropane	1.1	U	0.57	1.1	2.3	2.3
120-82-1	1,2,4-Trichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
95-63-6	1,2,4-Trimethylbenzene	2.3	U	0.92	2.3	4.6	4.6
96-12-8	1,2-Dibromo-3-chloropropane	2.3	U	1.5	2.3	4.6	4.6
106-93-4	1,2-Dibromoethane	1.1	U	0.46	1.1	2.3	2.3
95-50-1	1,2-Dichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
107-06-2	1,2-Dichloroethane	1.1	U	0.57	1.1	2.3	2.3
78-87-5	1,2-Dichloropropane	1.1	U	0.46	1.1	2.3	2.3
108-67-8	1,3,5-Trimethylbenzene	2.3	U	1.0	2.3	4.6	4.6
541-73-1	1,3-Dichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
142-28-9	1,3-Dichloropropane	1.1	U	0.46	1.1	2.3	2.3
106-46-7	1,4-Dichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
594-20-7	2,2-Dichloropropane	1.1	U	0.46	1.1	2.3	2.3
78-93-3	2-Butanone	23	U	11	23	46	46
95-49-8	2-Chlorotoluene	2.3	U	1.1	2.3	4.6	4.6
591-78-6	2-Hexanone	23	U	13	23	46	46

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.39 (g/mL)	CTL Sample ID:	356193
% Solids:	80.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 11:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.3	U	1.0	2.3	4.6	4.6
108-10-1	4-Methyl-2-pentanone	23	U	11	23	46	46
67-64-1	Acetone	23	U	11	23	46	46
71-43-2	Benzene	0.575	J	0.34	1.1	2.3	2.3
108-86-1	Bromobenzene	1.1	U	0.57	1.1	2.3	2.3
74-97-5	Bromochloromethane	1.1	U	0.46	1.1	2.3	2.3
75-27-4	Bromodichloromethane	1.1	U	0.46	1.1	2.3	2.3
75-25-2	Bromoform	1.1	U	0.46	1.1	2.3	2.3
74-83-9	Bromomethane	2.3	U Z	0.80	2.3	4.6	4.6
75-15-0	Carbon disulfide	2.3	U	1.0	2.3	4.6	4.6
56-23-5	Carbon tetrachloride	1.1	U	0.34	1.1	2.3	2.3
108-90-7	Chlorobenzene	1.1	U	0.46	1.1	2.3	2.3
75-00-3	Chloroethane	1.1	U	0.57	1.1	2.3	2.3
67-66-3	Chloroform	1.1	U	0.46	1.1	2.3	2.3
74-87-3	Chloromethane	1.1	U	0.46	1.1	2.3	2.3
156-59-2	cis-1,2-Dichloroethene	51.3		0.46	1.1	2.3	2.3
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.34	1.1	2.3	2.3
124-48-1	Dibromochloromethane	1.1	U	0.46	1.1	2.3	2.3
74-95-3	Dibromomethane	1.1	U	0.46	1.1	2.3	2.3
75-71-8	Dichlorodifluoromethane	2.3	U	1.1	2.3	4.6	4.6
100-41-4	Ethylbenzene	1.1	U	0.46	1.1	2.3	2.3
76-13-1	Freon 113	2.3	U	1.1	2.3	4.6	4.6
87-68-3	Hexachlorobutadiene	2.3	U	1.1	2.3	4.6	4.6
98-82-8	Isopropylbenzene	1.1	U	0.34	1.1	2.3	2.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.39 (g/mL)	CTL Sample ID:	356193
% Solids:	80.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 11:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.3	U	0.80	2.3	4.6	4.6
75-09-2	Methylene chloride	2.3	U	2.0	2.3	4.6	4.6
91-20-3	Naphthalene	2.3	U	1.1	2.3	4.6	4.6
104-51-8	n-Butylbenzene	2.3	U	1.0	2.3	4.6	4.6
103-65-1	n-Propylbenzene	2.3	U	1.0	2.3	4.6	4.6
95-47-6	o-Xylene	1.1	U	0.46	1.1	2.3	2.3
99-87-6	p-Isopropyltoluene	2.3	U	1.1	2.3	4.6	4.6
135-98-8	sec-Butylbenzene	2.3	U	1.0	2.3	4.6	4.6
100-42-5	Styrene	1.1	U	0.34	1.1	2.3	2.3
98-06-6	tert-Butylbenzene	2.3	U	1.0	2.3	4.6	4.6
127-18-4	Tetrachloroethene	1.1	U	0.46	1.1	2.3	2.3
108-88-3	Toluene	0.460	J	0.46	1.1	2.3	2.3
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.46	1.1	2.3	2.3
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.46	1.1	2.3	2.3
75-69-4	Trichlorofluoromethane	1.1	U	0.57	1.1	2.3	2.3
108-05-4	Vinyl acetate	23	U	14	23	46	46
75-01-4	Vinyl chloride	1.03	J	0.57	1.1	2.3	2.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-007 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.39 (g/mL)	CTL Sample ID:	356193
% Solids:	80.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	10.00
Date & Time Analyzed:	11/19/2019 / 12:52	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	15600		210	540	1100	1100

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356216
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	500.00
Date & Time Analyzed:	11/14/2019 / 21:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	500	U	200	500	1000	1000
71-55-6	1,1,1-Trichloroethane	300	U	150	300	500	500
79-34-5	1,1,2,2-Tetrachloroethane	300	U	150	300	500	500
79-00-5	1,1,2-Trichloroethane	300	U	150	300	500	500
75-34-3	1,1-Dichloroethane	300	U	150	300	500	500
75-35-4	1,1-Dichloroethene	500	U	200	500	1000	1000
563-58-6	1,1-Dichloropropene	300	U	150	300	500	500
87-61-6	1,2,3-Trichlorobenzene	300	U	120	300	500	500
96-18-4	1,2,3-Trichloropropane	300	U	150	300	500	500
120-82-1	1,2,4-Trichlorobenzene	300	U	140	300	500	500
95-63-6	1,2,4-Trimethylbenzene	300	U	150	300	500	500
96-12-8	1,2-Dibromo-3-chloropropane	300	U	130	300	500	500
106-93-4	1,2-Dibromoethane	300	U	150	300	500	500
95-50-1	1,2-Dichlorobenzene	300	U	150	300	500	500
107-06-2	1,2-Dichloroethane	300	U	120	300	500	500
78-87-5	1,2-Dichloropropane	300	U	90	300	500	500
108-67-8	1,3,5-Trimethylbenzene	300	U	140	300	500	500
541-73-1	1,3-Dichlorobenzene	300	U	130	300	500	500
142-28-9	1,3-Dichloropropane	150	U	85	150	300	300
106-46-7	1,4-Dichlorobenzene	300	U	150	300	500	500
594-20-7	2,2-Dichloropropane	300	U	150	300	500	500
78-93-3	2-Butanone	3000	U	1300	3000	5000	5000
95-49-8	2-Chlorotoluene	300	U	130	300	500	500
591-78-6	2-Hexanone	3000	U	1500	3000	5000	5000

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356216
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	500.00
Date & Time Analyzed:	11/14/2019 / 21:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	300	U	150	300	500	500
108-10-1	4-Methyl-2-pentanone	3000	U	1100	3000	5000	5000
67-64-1	Acetone	5000	U	2000	5000	10000	10000
71-43-2	Benzene	500	U	200	500	1000	1000
108-86-1	Bromobenzene	500	U	200	500	1000	1000
74-97-5	Bromochloromethane	300	U	150	300	500	500
75-27-4	Bromodichloromethane	300	U	150	300	500	500
75-25-2	Bromoform	500	U	200	500	1000	1000
74-83-9	Bromomethane	1000	U	450	1000	2000	2000
75-15-0	Carbon disulfide	1000	U	300	1000	2000	2000
56-23-5	Carbon tetrachloride	300	U	150	300	500	500
108-90-7	Chlorobenzene	300	U	150	300	500	500
75-00-3	Chloroethane	500	U	250	500	1000	1000
67-66-3	Chloroform	300	U	150	300	500	500
74-87-3	Chloromethane	500	U	300	500	1000	1000
156-59-2	cis-1,2-Dichloroethene	820		150	300	500	500
10061-01-5	cis-1,3-Dichloropropene	150	U	80	150	300	300
124-48-1	Dibromochloromethane	300	U	150	300	500	500
74-95-3	Dibromomethane	300	U	110	300	500	500
75-71-8	Dichlorodifluoromethane	500	U	200	500	1000	1000
100-41-4	Ethylbenzene	300	U	150	300	500	500
76-13-1	Freon 113	1000	U	350	1000	2000	2000
87-68-3	Hexachlorobutadiene	500	U	200	500	1000	1000
98-82-8	Isopropylbenzene	300	U	150	300	500	500

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Sample Description

DPT-008

VOLATILE ORGANICS ANALYSIS

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356216
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	500.00
Date & Time Analyzed:	11/14/2019 / 21:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	600	U	350	600	1000	1000
75-09-2	Methylene chloride	210	J	200	500	1000	1000
91-20-3	Naphthalene	300	U	150	300	500	500
104-51-8	n-Butylbenzene	300	U	150	300	500	500
103-65-1	n-Propylbenzene	300	U	150	300	500	500
95-47-6	o-Xylene	300	U	130	300	500	500
99-87-6	p-Isopropyltoluene	300	U	150	300	500	500
135-98-8	sec-Butylbenzene	500	U Z	200	500	1000	1000
100-42-5	Styrene	300	U	150	300	500	500
98-06-6	tert-Butylbenzene	500	U	200	500	1000	1000
127-18-4	Tetrachloroethene	300	U	140	300	500	500
108-88-3	Toluene	300	U	110	300	500	500
156-60-5	trans-1,2-Dichloroethene	300	U	150	300	500	500
10061-02-6	trans-1,3-Dichloropropene	300	U	120	300	500	500
79-01-6	Trichloroethene	36000		150	300	500	500
75-69-4	Trichlorofluoromethane	500	U	200	500	1000	1000
108-05-4	Vinyl acetate	5000	U	2500	5000	10000	10000
75-01-4	Vinyl chloride	150	U	70	150	300	300

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (26-27)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.95 (g/mL)	CTL Sample ID:	356197
% Solids:	81.5	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 13:31	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.31	1.0	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.0	U	0.31	1.0	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.52	1.0	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.0	U	0.41	1.0	2.1	2.1
75-34-3	1,1-Dichloroethane	0.722	J	0.41	1.0	2.1	2.1
75-35-4	1,1-Dichloroethene	1.03	J	0.41	1.0	2.1	2.1
563-58-6	1,1-Dichloropropene	1.0	U	0.41	1.0	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.93	2.1	4.1	4.1
96-18-4	1,2,3-Trichloropropane	1.0	U	0.52	1.0	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.93	2.1	4.1	4.1
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.82	2.1	4.1	4.1
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.3	2.1	4.1	4.1
106-93-4	1,2-Dibromoethane	1.0	U	0.41	1.0	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.93	2.1	4.1	4.1
107-06-2	1,2-Dichloroethane	1.0	U	0.52	1.0	2.1	2.1
78-87-5	1,2-Dichloropropane	1.0	U	0.41	1.0	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.93	2.1	4.1	4.1
541-73-1	1,3-Dichlorobenzene	2.1	U	0.93	2.1	4.1	4.1
142-28-9	1,3-Dichloropropane	1.0	U	0.41	1.0	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.93	2.1	4.1	4.1
594-20-7	2,2-Dichloropropane	1.0	U	0.41	1.0	2.1	2.1
78-93-3	2-Butanone	21	U	10	21	41	41
95-49-8	2-Chlorotoluene	2.1	U	1.0	2.1	4.1	4.1
591-78-6	2-Hexanone	21	U	11	21	41	41

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (26-27)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.95 (g/mL)	CTL Sample ID:	356197
% Solids:	81.5	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 13:31	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.1	U	0.93	2.1	4.1	4.1
108-10-1	4-Methyl-2-pentanone	21	U	10	21	41	41
67-64-1	Acetone	21	U	10	21	41	41
71-43-2	Benzene	1.0	U	0.31	1.0	2.1	2.1
108-86-1	Bromobenzene	1.0	U	0.52	1.0	2.1	2.1
74-97-5	Bromochloromethane	1.0	U	0.41	1.0	2.1	2.1
75-27-4	Bromodichloromethane	1.0	U	0.41	1.0	2.1	2.1
75-25-2	Bromoform	1.0	U	0.41	1.0	2.1	2.1
74-83-9	Bromomethane	2.1	U Z	0.72	2.1	4.1	4.1
75-15-0	Carbon disulfide	2.1	U	0.93	2.1	4.1	4.1
56-23-5	Carbon tetrachloride	1.0	U	0.31	1.0	2.1	2.1
108-90-7	Chlorobenzene	1.0	U	0.41	1.0	2.1	2.1
75-00-3	Chloroethane	1.0	U	0.52	1.0	2.1	2.1
67-66-3	Chloroform	1.0	U	0.41	1.0	2.1	2.1
74-87-3	Chloromethane	1.0	U	0.41	1.0	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	82.6		0.41	1.0	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.31	1.0	2.1	2.1
124-48-1	Dibromochloromethane	1.0	U	0.41	1.0	2.1	2.1
74-95-3	Dibromomethane	1.0	U	0.41	1.0	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U	1.0	2.1	4.1	4.1
100-41-4	Ethylbenzene	1.0	U	0.41	1.0	2.1	2.1
76-13-1	Freon 113	2.1	U	1.0	2.1	4.1	4.1
87-68-3	Hexachlorobutadiene	2.1	U	1.0	2.1	4.1	4.1
98-82-8	Isopropylbenzene	1.0	U	0.31	1.0	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (26-27)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.95 (g/mL)	CTL Sample ID:	356197
% Solids:	81.5	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 13:31	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.1	U	0.72	2.1	4.1	4.1
75-09-2	Methylene chloride	2.1	U	1.8	2.1	4.1	4.1
91-20-3	Naphthalene	2.1	U	1.0	2.1	4.1	4.1
104-51-8	n-Butylbenzene	2.1	U	0.93	2.1	4.1	4.1
103-65-1	n-Propylbenzene	2.1	U	0.93	2.1	4.1	4.1
95-47-6	o-Xylene	1.0	U	0.41	1.0	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.0	2.1	4.1	4.1
135-98-8	sec-Butylbenzene	2.1	U	0.93	2.1	4.1	4.1
100-42-5	Styrene	1.0	U	0.31	1.0	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.93	2.1	4.1	4.1
127-18-4	Tetrachloroethene	1.0	U	0.41	1.0	2.1	2.1
108-88-3	Toluene	1.0	U	0.41	1.0	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.41	1.0	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.41	1.0	2.1	2.1
75-69-4	Trichlorofluoromethane	1.0	U	0.52	1.0	2.1	2.1
108-05-4	Vinyl acetate	21	U	12	21	41	41
75-01-4	Vinyl chloride	0.825	J	0.52	1.0	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (26-27)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.95 (g/mL)	CTL Sample ID:	356197
% Solids:	81.5	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	2.00
Date & Time Analyzed:	11/18/2019 / 23:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	1340		39	100	210	210

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.84 (g/mL)	CTL Sample ID:	356198
% Solids:	83.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 14:00	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.87	U	0.26	0.87	1.7	1.7
71-55-6	1,1,1-Trichloroethane	0.87	U	0.26	0.87	1.7	1.7
79-34-5	1,1,2,2-Tetrachloroethane	0.87	U	0.44	0.87	1.7	1.7
79-00-5	1,1,2-Trichloroethane	0.87	U	0.35	0.87	1.7	1.7
75-34-3	1,1-Dichloroethane	0.437	J	0.35	0.87	1.7	1.7
75-35-4	1,1-Dichloroethene	0.524	J	0.35	0.87	1.7	1.7
563-58-6	1,1-Dichloropropene	0.87	U	0.35	0.87	1.7	1.7
87-61-6	1,2,3-Trichlorobenzene	1.7	U	0.79	1.7	3.5	3.5
96-18-4	1,2,3-Trichloropropane	0.87	U	0.44	0.87	1.7	1.7
120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.79	1.7	3.5	3.5
95-63-6	1,2,4-Trimethylbenzene	1.7	U	0.70	1.7	3.5	3.5
96-12-8	1,2-Dibromo-3-chloropropane	1.7	U	1.1	1.7	3.5	3.5
106-93-4	1,2-Dibromoethane	0.87	U	0.35	0.87	1.7	1.7
95-50-1	1,2-Dichlorobenzene	1.7	U	0.79	1.7	3.5	3.5
107-06-2	1,2-Dichloroethane	0.87	U	0.44	0.87	1.7	1.7
78-87-5	1,2-Dichloropropane	0.87	U	0.35	0.87	1.7	1.7
108-67-8	1,3,5-Trimethylbenzene	1.7	U	0.79	1.7	3.5	3.5
541-73-1	1,3-Dichlorobenzene	1.7	U	0.79	1.7	3.5	3.5
142-28-9	1,3-Dichloropropane	0.87	U	0.35	0.87	1.7	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	0.79	1.7	3.5	3.5
594-20-7	2,2-Dichloropropane	0.87	U	0.35	0.87	1.7	1.7
78-93-3	2-Butanone	17	U	8.7	17	35	35
95-49-8	2-Chlorotoluene	1.7	U	0.87	1.7	3.5	3.5
591-78-6	2-Hexanone	17	U	9.6	17	35	35

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.84 (g/mL)	CTL Sample ID:	356198
% Solids:	83.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 14:00	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.7	U	0.79	1.7	3.5	3.5
108-10-1	4-Methyl-2-pentanone	17	U	8.7	17	35	35
67-64-1	Acetone	17	U	8.7	17	35	35
71-43-2	Benzene	0.87	U	0.26	0.87	1.7	1.7
108-86-1	Bromobenzene	0.87	U	0.44	0.87	1.7	1.7
74-97-5	Bromochloromethane	0.87	U	0.35	0.87	1.7	1.7
75-27-4	Bromodichloromethane	0.87	U	0.35	0.87	1.7	1.7
75-25-2	Bromoform	0.87	U	0.35	0.87	1.7	1.7
74-83-9	Bromomethane	1.7	U Z	0.61	1.7	3.5	3.5
75-15-0	Carbon disulfide	1.7	U	0.79	1.7	3.5	3.5
56-23-5	Carbon tetrachloride	0.87	U	0.26	0.87	1.7	1.7
108-90-7	Chlorobenzene	0.87	U	0.35	0.87	1.7	1.7
75-00-3	Chloroethane	0.87	U	0.44	0.87	1.7	1.7
67-66-3	Chloroform	0.87	U	0.35	0.87	1.7	1.7
74-87-3	Chloromethane	0.87	U	0.35	0.87	1.7	1.7
156-59-2	cis-1,2-Dichloroethene	40.4		0.35	0.87	1.7	1.7
10061-01-5	cis-1,3-Dichloropropene	0.87	U	0.26	0.87	1.7	1.7
124-48-1	Dibromochloromethane	0.87	U	0.35	0.87	1.7	1.7
74-95-3	Dibromomethane	0.87	U	0.35	0.87	1.7	1.7
75-71-8	Dichlorodifluoromethane	1.7	U	0.87	1.7	3.5	3.5
100-41-4	Ethylbenzene	0.87	U	0.35	0.87	1.7	1.7
76-13-1	Freon 113	1.7	U	0.87	1.7	3.5	3.5
87-68-3	Hexachlorobutadiene	1.7	U	0.87	1.7	3.5	3.5
98-82-8	Isopropylbenzene	0.87	U	0.26	0.87	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.84 (g/mL)	CTL Sample ID:	356198
% Solids:	83.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 14:00	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.7	U	0.61	1.7	3.5	3.5
75-09-2	Methylene chloride	1.66	J	1.5	1.7	3.5	3.5
91-20-3	Naphthalene	1.7	U	0.87	1.7	3.5	3.5
104-51-8	n-Butylbenzene	1.7	U	0.79	1.7	3.5	3.5
103-65-1	n-Propylbenzene	1.7	U	0.79	1.7	3.5	3.5
95-47-6	o-Xylene	0.87	U	0.35	0.87	1.7	1.7
99-87-6	p-Isopropyltoluene	1.7	U	0.87	1.7	3.5	3.5
135-98-8	sec-Butylbenzene	1.7	U	0.79	1.7	3.5	3.5
100-42-5	Styrene	0.87	U	0.26	0.87	1.7	1.7
98-06-6	tert-Butylbenzene	1.7	U	0.79	1.7	3.5	3.5
127-18-4	Tetrachloroethene	0.87	U	0.35	0.87	1.7	1.7
108-88-3	Toluene	0.87	U	0.35	0.87	1.7	1.7
156-60-5	trans-1,2-Dichloroethene	0.87	U	0.35	0.87	1.7	1.7
10061-02-6	trans-1,3-Dichloropropene	0.87	U	0.35	0.87	1.7	1.7
79-01-6	Trichloroethene	497	X	17	44	87	87
75-69-4	Trichlorofluoromethane	0.87	U	0.44	0.87	1.7	1.7
108-05-4	Vinyl acetate	17	U	10	17	35	35
75-01-4	Vinyl chloride	0.87	U	0.44	0.87	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.98 (g/mL)	CTL Sample ID:	356199
% Solids:	83.4	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/19/2019 / 00:30	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
156-59-2	cis-1,2-Dichloroethene	74.6	J	23	42	85	85
79-01-6	Trichloroethene	1420		16	42	85	85

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.98 (g/mL)	CTL Sample ID:	356199
% Solids:	83.4	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 14:29	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	1.0	U	0.30	1.0	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	2.0	2.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.40	1.0	2.0	2.0
75-34-3	1,1-Dichloroethane	0.802	J	0.40	1.0	2.0	2.0
75-35-4	1,1-Dichloroethene	1.50	J	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	1.0	U	0.40	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
96-18-4	1,2,3-Trichloropropane	1.0	U	0.50	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.80	2.0	4.0	4.0
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.0	4.0
106-93-4	1,2-Dibromoethane	1.0	U	0.40	1.0	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
107-06-2	1,2-Dichloroethane	1.0	U	0.50	1.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.90	2.0	4.0	4.0
541-73-1	1,3-Dichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
142-28-9	1,3-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
594-20-7	2,2-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
78-93-3	2-Butanone	20	U	10	20	40	40
95-49-8	2-Chlorotoluene	2.0	U	1.0	2.0	4.0	4.0
591-78-6	2-Hexanone	20	U	11	20	40	40

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.98 (g/mL)	CTL Sample ID:	356199
% Solids:	83.4	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 14:29	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.0	U	0.90	2.0	4.0	4.0
108-10-1	4-Methyl-2-pentanone	20	U	10	20	40	40
67-64-1	Acetone	20	U	10	20	40	40
71-43-2	Benzene	1.0	U	0.30	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.50	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.40	1.0	2.0	2.0
75-27-4	Bromodichloromethane	1.0	U	0.40	1.0	2.0	2.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U Z	0.70	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.90	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	1.0	U	0.30	1.0	2.0	2.0
108-90-7	Chlorobenzene	1.0	U	0.40	1.0	2.0	2.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	1.0	U	0.40	1.0	2.0	2.0
74-87-3	Chloromethane	1.0	U	0.40	1.0	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.30	1.0	2.0	2.0
124-48-1	Dibromochloromethane	1.0	U	0.40	1.0	2.0	2.0
74-95-3	Dibromomethane	1.0	U	0.40	1.0	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U	1.0	2.0	4.0	4.0
100-41-4	Ethylbenzene	1.0	U	0.40	1.0	2.0	2.0
76-13-1	Freon 113	2.0	U	1.0	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	2.0	U	1.0	2.0	4.0	4.0
98-82-8	Isopropylbenzene	1.0	U	0.30	1.0	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.70	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-008 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.98 (g/mL)	CTL Sample ID:	356199
% Solids:	83.4	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 14:29	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
75-09-2	Methylene chloride	2.0	U	1.7	2.0	4.0	4.0
91-20-3	Naphthalene	2.0	U	1.0	2.0	4.0	4.0
104-51-8	n-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
103-65-1	n-Propylbenzene	2.0	U	0.90	2.0	4.0	4.0
95-47-6	o-Xylene	1.0	U	0.40	1.0	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	1.0	2.0	4.0	4.0
135-98-8	sec-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
100-42-5	Styrene	1.0	U	0.30	1.0	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
127-18-4	Tetrachloroethene	1.0	U	0.40	1.0	2.0	2.0
108-88-3	Toluene	0.501	J	0.40	1.0	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.40	1.0	2.0	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.50	1.0	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	40	40
75-01-4	Vinyl chloride	1.60	J	0.50	1.0	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356211
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	5.00
Date & Time Analyzed:	11/15/2019 / 13:41	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	93		1.5	3.0	5.0	5.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356211
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 17:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.40	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.60	U	0.29	0.60	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.30	0.60	1.0	1.0
79-00-5	1,1,2-Trichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-34-3	1,1-Dichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	0.60	U	0.30	0.60	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.23	0.60	1.0	1.0
96-18-4	1,2,3-Trichloropropane	0.60	U	0.30	0.60	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	0.60	U	0.28	0.60	1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	0.60	U	0.29	0.60	1.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U	0.25	0.60	1.0	1.0
106-93-4	1,2-Dibromoethane	0.60	U	0.30	0.60	1.0	1.0
95-50-1	1,2-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
107-06-2	1,2-Dichloroethane	0.60	U	0.24	0.60	1.0	1.0
78-87-5	1,2-Dichloropropane	0.60	U	0.18	0.60	1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	0.60	U	0.27	0.60	1.0	1.0
541-73-1	1,3-Dichlorobenzene	0.60	U	0.26	0.60	1.0	1.0
142-28-9	1,3-Dichloropropane	0.30	U	0.17	0.30	0.60	0.60
106-46-7	1,4-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
594-20-7	2,2-Dichloropropane	0.60	U	0.30	0.60	1.0	1.0
78-93-3	2-Butanone	6.0	U	2.6	6.0	10	10
95-49-8	2-Chlorotoluene	0.60	U	0.25	0.60	1.0	1.0
591-78-6	2-Hexanone	6.0	U	3.0	6.0	10	10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356211
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 17:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	0.60	U	0.30	0.60	1.0	1.0
108-10-1	4-Methyl-2-pentanone	6.0	U	2.2	6.0	10	10
67-64-1	Acetone	5.3	J	4.0	10	20	20
71-43-2	Benzene	1.0	U	0.40	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.40	1.0	2.0	2.0
74-97-5	Bromochloromethane	0.60	U	0.30	0.60	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.90	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.60	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.60	U	0.30	0.60	1.0	1.0
108-90-7	Chlorobenzene	0.60	U	0.30	0.60	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	0.60	U	0.30	0.60	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.60	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	3.0		0.30	0.60	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	0.30	U	0.16	0.30	0.60	0.60
124-48-1	Dibromochloromethane	0.60	U	0.30	0.60	1.0	1.0
74-95-3	Dibromomethane	0.60	U	0.22	0.60	1.0	1.0
75-71-8	Dichlorodifluoromethane	1.0	U	0.40	1.0	2.0	2.0
100-41-4	Ethylbenzene	0.60	U	0.30	0.60	1.0	1.0
76-13-1	Freon 113	2.0	U	0.70	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	1.0	U	0.40	1.0	2.0	2.0
98-82-8	Isopropylbenzene	0.60	U	0.30	0.60	1.0	1.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356211
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 17:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.2	U	0.70	1.2	2.0	2.0
75-09-2	Methylene chloride	1.0	U	0.40	1.0	2.0	2.0
91-20-3	Naphthalene	0.60	U	0.30	0.60	1.0	1.0
104-51-8	n-Butylbenzene	0.60	U	0.29	0.60	1.0	1.0
103-65-1	n-Propylbenzene	0.60	U	0.30	0.60	1.0	1.0
95-47-6	o-Xylene	0.60	U	0.26	0.60	1.0	1.0
99-87-6	p-Isopropyltoluene	0.60	U	0.30	0.60	1.0	1.0
135-98-8	sec-Butylbenzene	1.0	U Z	0.40	1.0	2.0	2.0
100-42-5	Styrene	0.60	U	0.29	0.60	1.0	1.0
98-06-6	tert-Butylbenzene	1.0	U	0.40	1.0	2.0	2.0
127-18-4	Tetrachloroethene	0.60	U	0.27	0.60	1.0	1.0
108-88-3	Toluene	0.60	U	0.21	0.60	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	0.60	U	0.23	0.60	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.40	1.0	2.0	2.0
108-05-4	Vinyl acetate	10	U	5.0	10	20	20
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009 (24-25)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.94 (g/mL)	CTL Sample ID:	356179
% Solids:	81.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/19/2019 / 12:23	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	295		24	62	2.5	120

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009 (24-25)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.94 (g/mL)	CTL Sample ID:	356179
% Solids:	81.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 23:07	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U	0.37	1.2	2.5	2.5
71-55-6	1,1,1-Trichloroethane	1.2	U	0.37	1.2	2.5	2.5
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U	0.61	1.2	2.5	2.5
79-00-5	1,1,2-Trichloroethane	1.2	U	0.49	1.2	2.5	2.5
75-34-3	1,1-Dichloroethane	1.2	U	0.49	1.2	2.5	2.5
75-35-4	1,1-Dichloroethene	0.613	J	0.49	1.2	2.5	2.5
563-58-6	1,1-Dichloropropene	1.2	U	0.49	1.2	2.5	2.5
87-61-6	1,2,3-Trichlorobenzene	2.5	U	1.1	2.5	4.9	4.9
96-18-4	1,2,3-Trichloropropane	1.2	U	0.61	1.2	2.5	2.5
120-82-1	1,2,4-Trichlorobenzene	2.5	U	1.1	2.5	4.9	4.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	0.98	2.5	4.9	4.9
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U	1.6	2.5	4.9	4.9
106-93-4	1,2-Dibromoethane	1.2	U	0.49	1.2	2.5	2.5
95-50-1	1,2-Dichlorobenzene	2.5	U	1.1	2.5	4.9	4.9
107-06-2	1,2-Dichloroethane	1.2	U	0.61	1.2	2.5	2.5
78-87-5	1,2-Dichloropropane	1.2	U	0.49	1.2	2.5	2.5
108-67-8	1,3,5-Trimethylbenzene	2.5	U	1.1	2.5	4.9	4.9
541-73-1	1,3-Dichlorobenzene	2.5	U	1.1	2.5	4.9	4.9
142-28-9	1,3-Dichloropropane	1.2	U	0.49	1.2	2.5	2.5
106-46-7	1,4-Dichlorobenzene	2.5	U	1.1	2.5	4.9	4.9
594-20-7	2,2-Dichloropropane	1.2	U	0.49	1.2	2.5	2.5
78-93-3	2-Butanone	25	U	12	25	49	49
95-49-8	2-Chlorotoluene	2.5	U	1.2	2.5	4.9	4.9
591-78-6	2-Hexanone	25	U	13	25	49	49

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009 (24-25)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.94 (g/mL)	CTL Sample ID:	356179
% Solids:	81.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 23:07	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.5	U	1.1	2.5	4.9	4.9
108-10-1	4-Methyl-2-pentanone	25	U	12	25	49	49
67-64-1	Acetone	15.3	J	12	25	49	49
71-43-2	Benzene	1.2	U	0.37	1.2	2.5	2.5
108-86-1	Bromobenzene	1.2	U	0.61	1.2	2.5	2.5
74-97-5	Bromochloromethane	1.2	U	0.49	1.2	2.5	2.5
75-27-4	Bromodichloromethane	1.2	U	0.49	1.2	2.5	2.5
75-25-2	Bromoform	1.2	U	0.49	1.2	2.5	2.5
74-83-9	Bromomethane	2.5	U	0.86	2.5	4.9	4.9
75-15-0	Carbon disulfide	2.5	U	1.1	2.5	4.9	4.9
56-23-5	Carbon tetrachloride	1.2	U	0.37	1.2	2.5	2.5
108-90-7	Chlorobenzene	1.2	U	0.49	1.2	2.5	2.5
75-00-3	Chloroethane	1.2	U	0.61	1.2	2.5	2.5
67-66-3	Chloroform	1.2	U	0.49	1.2	2.5	2.5
74-87-3	Chloromethane	1.2	U	0.49	1.2	2.5	2.5
156-59-2	cis-1,2-Dichloroethene	44.5		0.49	1.2	2.5	2.5
10061-01-5	cis-1,3-Dichloropropene	1.2	U	0.37	1.2	2.5	2.5
124-48-1	Dibromochloromethane	1.2	U	0.49	1.2	2.5	2.5
74-95-3	Dibromomethane	1.2	U	0.49	1.2	2.5	2.5
75-71-8	Dichlorodifluoromethane	2.5	U	1.2	2.5	4.9	4.9
100-41-4	Ethylbenzene	1.2	U	0.49	1.2	2.5	2.5
76-13-1	Freon 113	2.5	U	1.2	2.5	4.9	4.9
87-68-3	Hexachlorobutadiene	2.5	U	1.2	2.5	4.9	4.9
98-82-8	Isopropylbenzene	1.2	U	0.37	1.2	2.5	2.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009 (24-25)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.94 (g/mL)	CTL Sample ID:	356179
% Solids:	81.6	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/12/2019 / 23:07	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.5	U	0.86	2.5	4.9	4.9
75-09-2	Methylene chloride	2.5	U	2.1	2.5	4.9	4.9
91-20-3	Naphthalene	2.5	U	1.2	2.5	4.9	4.9
104-51-8	n-Butylbenzene	2.5	U	1.1	2.5	4.9	4.9
103-65-1	n-Propylbenzene	2.5	U	1.1	2.5	4.9	4.9
95-47-6	o-Xylene	1.2	U	0.49	1.2	2.5	2.5
99-87-6	p-Isopropyltoluene	2.5	U	1.2	2.5	4.9	4.9
135-98-8	sec-Butylbenzene	2.5	U	1.1	2.5	4.9	4.9
100-42-5	Styrene	1.2	U	0.37	1.2	2.5	2.5
98-06-6	tert-Butylbenzene	2.5	U	1.1	2.5	4.9	4.9
127-18-4	Tetrachloroethene	1.2	U	0.49	1.2	2.5	2.5
108-88-3	Toluene	1.2	U	0.49	1.2	2.5	2.5
156-60-5	trans-1,2-Dichloroethene	1.2	U	0.49	1.2	2.5	2.5
10061-02-6	trans-1,3-Dichloropropene	1.2	U	0.49	1.2	2.5	2.5
75-69-4	Trichlorofluoromethane	1.2	U	0.61	1.2	2.5	2.5
108-05-4	Vinyl acetate	25	U	15	25	49	49
75-01-4	Vinyl chloride	1.2	U	0.61	1.2	2.5	2.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.63 (g/mL)	CTL Sample ID:	356180
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 13:10	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.53	1.1	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-34-3	1,1-Dichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-35-4	1,1-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
563-58-6	1,1-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
96-18-4	1,2,3-Trichloropropane	1.1	U	0.53	1.1	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.84	2.1	4.2	4.2
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.4	2.1	4.2	4.2
106-93-4	1,2-Dibromoethane	1.1	U	0.42	1.1	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
107-06-2	1,2-Dichloroethane	1.1	U	0.53	1.1	2.1	2.1
78-87-5	1,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.95	2.1	4.2	4.2
541-73-1	1,3-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
142-28-9	1,3-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
594-20-7	2,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
78-93-3	2-Butanone	21	U	11	21	42	42
95-49-8	2-Chlorotoluene	2.1	U	1.1	2.1	4.2	4.2
591-78-6	2-Hexanone	21	U	12	21	42	42

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.63 (g/mL)	CTL Sample ID:	356180
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 13:10	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.1	U	0.95	2.1	4.2	4.2
108-10-1	4-Methyl-2-pentanone	21	U	11	21	42	42
67-64-1	Acetone	21	U	11	21	42	42
71-43-2	Benzene	1.1	U	0.32	1.1	2.1	2.1
108-86-1	Bromobenzene	1.1	U	0.53	1.1	2.1	2.1
74-97-5	Bromochloromethane	1.1	U	0.42	1.1	2.1	2.1
75-27-4	Bromodichloromethane	1.1	U	0.42	1.1	2.1	2.1
75-25-2	Bromoform	1.1	U	0.42	1.1	2.1	2.1
74-83-9	Bromomethane	2.1	U Z	0.74	2.1	4.2	4.2
75-15-0	Carbon disulfide	2.1	U	0.95	2.1	4.2	4.2
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.1	2.1
108-90-7	Chlorobenzene	1.1	U	0.42	1.1	2.1	2.1
75-00-3	Chloroethane	1.1	U	0.53	1.1	2.1	2.1
67-66-3	Chloroform	1.1	U	0.42	1.1	2.1	2.1
74-87-3	Chloromethane	1.1	U	0.42	1.1	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.1	2.1
124-48-1	Dibromochloromethane	1.1	U	0.42	1.1	2.1	2.1
74-95-3	Dibromomethane	1.1	U	0.42	1.1	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U Z	1.1	2.1	4.2	4.2
100-41-4	Ethylbenzene	1.1	U	0.42	1.1	2.1	2.1
76-13-1	Freon 113	2.1	U	1.1	2.1	4.2	4.2
87-68-3	Hexachlorobutadiene	2.1	U	1.1	2.1	4.2	4.2
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.63 (g/mL)	CTL Sample ID:	356180
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 13:10	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.1	U	0.74	2.1	4.2	4.2
75-09-2	Methylene chloride	2.1	U Z	1.8	2.1	4.2	4.2
91-20-3	Naphthalene	2.1	U	1.1	2.1	4.2	4.2
104-51-8	n-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
103-65-1	n-Propylbenzene	2.1	U	0.95	2.1	4.2	4.2
95-47-6	o-Xylene	1.1	U	0.42	1.1	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.1	2.1	4.2	4.2
135-98-8	sec-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
100-42-5	Styrene	1.1	U	0.32	1.1	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
127-18-4	Tetrachloroethene	1.1	U	0.42	1.1	2.1	2.1
108-88-3	Toluene	1.1	U	0.42	1.1	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
79-01-6	Trichloroethene	1.05	J	0.32	1.1	2.1	2.1
75-69-4	Trichlorofluoromethane	1.1	U	0.53	1.1	2.1	2.1
108-05-4	Vinyl acetate	21	U	13	21	42	42
75-01-4	Vinyl chloride	1.1	U	0.53	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.20 (g/mL)	CTL Sample ID:	356181
% Solids:	82.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 13:39	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.84	U	0.25	0.84	1.7	1.7
71-55-6	1,1,1-Trichloroethane	0.84	U	0.25	0.84	1.7	1.7
79-34-5	1,1,2,2-Tetrachloroethane	0.84	U Y	0.42	0.84	1.7	1.7
79-00-5	1,1,2-Trichloroethane	0.84	U	0.34	0.84	1.7	1.7
75-34-3	1,1-Dichloroethane	0.84	U	0.34	0.84	1.7	1.7
75-35-4	1,1-Dichloroethene	0.84	U	0.34	0.84	1.7	1.7
563-58-6	1,1-Dichloropropene	0.84	U	0.34	0.84	1.7	1.7
87-61-6	1,2,3-Trichlorobenzene	1.7	U Y,M	0.76	1.7	3.4	3.4
96-18-4	1,2,3-Trichloropropane	1.18	J Y	0.42	0.84	1.7	1.7
120-82-1	1,2,4-Trichlorobenzene	1.7	U Y,M	0.76	1.7	3.4	3.4
95-63-6	1,2,4-Trimethylbenzene	1.7	U Y	0.68	1.7	3.4	3.4
96-12-8	1,2-Dibromo-3-chloropropane	1.7	U Y,M	1.1	1.7	3.4	3.4
106-93-4	1,2-Dibromoethane	0.84	U Y	0.34	0.84	1.7	1.7
95-50-1	1,2-Dichlorobenzene	1.7	U Y,M	0.76	1.7	3.4	3.4
107-06-2	1,2-Dichloroethane	0.84	U	0.42	0.84	1.7	1.7
78-87-5	1,2-Dichloropropane	0.84	U	0.34	0.84	1.7	1.7
108-67-8	1,3,5-Trimethylbenzene	1.7	U Y	0.76	1.7	3.4	3.4
541-73-1	1,3-Dichlorobenzene	1.7	U Y,M	0.76	1.7	3.4	3.4
142-28-9	1,3-Dichloropropane	0.84	U	0.34	0.84	1.7	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U Y,M	0.76	1.7	3.4	3.4
594-20-7	2,2-Dichloropropane	0.84	U	0.34	0.84	1.7	1.7
78-93-3	2-Butanone	17	U Y	8.4	17	34	34
95-49-8	2-Chlorotoluene	1.7	U Y	0.84	1.7	3.4	3.4
591-78-6	2-Hexanone	17	U Y	9.3	17	34	34

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.20 (g/mL)	CTL Sample ID:	356181
% Solids:	82.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 13:39	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.7	U Y	0.76	1.7	3.4	3.4
108-10-1	4-Methyl-2-pentanone	17	U Y	8.4	17	34	34
67-64-1	Acetone	17	U Y	8.4	17	34	34
71-43-2	Benzene	0.84	U	0.25	0.84	1.7	1.7
108-86-1	Bromobenzene	0.84	U Y	0.42	0.84	1.7	1.7
74-97-5	Bromochloromethane	0.84	U	0.34	0.84	1.7	1.7
75-27-4	Bromodichloromethane	0.84	U	0.34	0.84	1.7	1.7
75-25-2	Bromoform	0.84	U Y	0.34	0.84	1.7	1.7
74-83-9	Bromomethane	1.7	U Y,M,Z	0.59	1.7	3.4	3.4
75-15-0	Carbon disulfide	1.7	U	0.76	1.7	3.4	3.4
56-23-5	Carbon tetrachloride	0.84	U	0.25	0.84	1.7	1.7
108-90-7	Chlorobenzene	0.84	U	0.34	0.84	1.7	1.7
75-00-3	Chloroethane	0.84	U	0.42	0.84	1.7	1.7
67-66-3	Chloroform	0.84	U	0.34	0.84	1.7	1.7
74-87-3	Chloromethane	0.84	U	0.34	0.84	1.7	1.7
156-59-2	cis-1,2-Dichloroethene	0.84	U	0.34	0.84	1.7	1.7
10061-01-5	cis-1,3-Dichloropropene	0.84	U	0.25	0.84	1.7	1.7
124-48-1	Dibromochloromethane	0.84	U	0.34	0.84	1.7	1.7
74-95-3	Dibromomethane	0.84	U	0.34	0.84	1.7	1.7
75-71-8	Dichlorodifluoromethane	1.7	U Z	0.84	1.7	3.4	3.4
100-41-4	Ethylbenzene	0.84	U	0.34	0.84	1.7	1.7
76-13-1	Freon 113	1.7	U	0.84	1.7	3.4	3.4
87-68-3	Hexachlorobutadiene	1.7	U Y,M	0.84	1.7	3.4	3.4
98-82-8	Isopropylbenzene	0.84	U	0.25	0.84	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-009 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.20 (g/mL)	CTL Sample ID:	356181
% Solids:	82.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 13:39	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.7	U	0.59	1.7	3.4	3.4
75-09-2	Methylene chloride	1.7	U Z	1.4	1.7	3.4	3.4
91-20-3	Naphthalene	1.7	U Y,M	0.84	1.7	3.4	3.4
104-51-8	n-Butylbenzene	1.7	U Y	0.76	1.7	3.4	3.4
103-65-1	n-Propylbenzene	1.7	U Y	0.76	1.7	3.4	3.4
95-47-6	o-Xylene	0.84	U	0.34	0.84	1.7	1.7
99-87-6	p-Isopropyltoluene	1.7	U Y	0.84	1.7	3.4	3.4
135-98-8	sec-Butylbenzene	1.7	U Y	0.76	1.7	3.4	3.4
100-42-5	Styrene	0.84	U Y,M	0.25	0.84	1.7	1.7
98-06-6	tert-Butylbenzene	1.7	U	0.76	1.7	3.4	3.4
127-18-4	Tetrachloroethene	0.84	U	0.34	0.84	1.7	1.7
108-88-3	Toluene	0.84	U	0.34	0.84	1.7	1.7
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.34	0.84	1.7	1.7
10061-02-6	trans-1,3-Dichloropropene	0.84	U	0.34	0.84	1.7	1.7
79-01-6	Trichloroethene	0.84	U	0.25	0.84	1.7	1.7
75-69-4	Trichlorofluoromethane	0.84	U	0.42	0.84	1.7	1.7
108-05-4	Vinyl acetate	17	U	10	17	34	34
75-01-4	Vinyl chloride	0.84	U	0.42	0.84	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356217
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	500.00
Date & Time Analyzed:	11/14/2019 / 21:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	500	U	200	500	1000	1000
71-55-6	1,1,1-Trichloroethane	300	U	150	300	500	500
79-34-5	1,1,2,2-Tetrachloroethane	300	U	150	300	500	500
79-00-5	1,1,2-Trichloroethane	300	U	150	300	500	500
75-34-3	1,1-Dichloroethane	300	U	150	300	500	500
75-35-4	1,1-Dichloroethene	500	U	200	500	1000	1000
563-58-6	1,1-Dichloropropene	300	U	150	300	500	500
87-61-6	1,2,3-Trichlorobenzene	300	U	120	300	500	500
96-18-4	1,2,3-Trichloropropane	300	U	150	300	500	500
120-82-1	1,2,4-Trichlorobenzene	300	U	140	300	500	500
95-63-6	1,2,4-Trimethylbenzene	300	U	150	300	500	500
96-12-8	1,2-Dibromo-3-chloropropane	300	U	130	300	500	500
106-93-4	1,2-Dibromoethane	300	U	150	300	500	500
95-50-1	1,2-Dichlorobenzene	300	U	150	300	500	500
107-06-2	1,2-Dichloroethane	300	U	120	300	500	500
78-87-5	1,2-Dichloropropane	300	U	90	300	500	500
108-67-8	1,3,5-Trimethylbenzene	300	U	140	300	500	500
541-73-1	1,3-Dichlorobenzene	300	U	130	300	500	500
142-28-9	1,3-Dichloropropane	150	U	85	150	300	300
106-46-7	1,4-Dichlorobenzene	300	U	150	300	500	500
594-20-7	2,2-Dichloropropane	300	U	150	300	500	500
78-93-3	2-Butanone	3000	U	1300	3000	5000	5000
95-49-8	2-Chlorotoluene	300	U	130	300	500	500
591-78-6	2-Hexanone	3000	U	1500	3000	5000	5000

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356217
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	500.00
Date & Time Analyzed:	11/14/2019 / 21:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	300	U	150	300	500	500
108-10-1	4-Methyl-2-pentanone	3000	U	1100	3000	5000	5000
67-64-1	Acetone	5000	U	2000	5000	10000	10000
71-43-2	Benzene	500	U	200	500	1000	1000
108-86-1	Bromobenzene	500	U	200	500	1000	1000
74-97-5	Bromochloromethane	300	U	150	300	500	500
75-27-4	Bromodichloromethane	300	U	150	300	500	500
75-25-2	Bromoform	500	U	200	500	1000	1000
74-83-9	Bromomethane	1000	U	450	1000	2000	2000
75-15-0	Carbon disulfide	1000	U	300	1000	2000	2000
56-23-5	Carbon tetrachloride	300	U	150	300	500	500
108-90-7	Chlorobenzene	300	U	150	300	500	500
75-00-3	Chloroethane	500	U	250	500	1000	1000
67-66-3	Chloroform	300	U	150	300	500	500
74-87-3	Chloromethane	500	U	300	500	1000	1000
156-59-2	cis-1,2-Dichloroethene	1300		150	300	500	500
10061-01-5	cis-1,3-Dichloropropene	150	U	80	150	300	300
124-48-1	Dibromochloromethane	300	U	150	300	500	500
74-95-3	Dibromomethane	300	U	110	300	500	500
75-71-8	Dichlorodifluoromethane	500	U	200	500	1000	1000
100-41-4	Ethylbenzene	300	U	150	300	500	500
76-13-1	Freon 113	1000	U	350	1000	2000	2000
87-68-3	Hexachlorobutadiene	500	U	200	500	1000	1000
98-82-8	Isopropylbenzene	300	U	150	300	500	500

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356217
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	500.00
Date & Time Analyzed:	11/14/2019 / 21:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	600	U	350	600	1000	1000
75-09-2	Methylene chloride	200	J	200	500	1000	1000
91-20-3	Naphthalene	300	U	150	300	500	500
104-51-8	n-Butylbenzene	300	U	150	300	500	500
103-65-1	n-Propylbenzene	300	U	150	300	500	500
95-47-6	o-Xylene	300	U	130	300	500	500
99-87-6	p-Isopropyltoluene	300	U	150	300	500	500
135-98-8	sec-Butylbenzene	500	U Z	200	500	1000	1000
100-42-5	Styrene	300	U	150	300	500	500
98-06-6	tert-Butylbenzene	500	U	200	500	1000	1000
127-18-4	Tetrachloroethene	300	U	140	300	500	500
108-88-3	Toluene	300	U	110	300	500	500
156-60-5	trans-1,2-Dichloroethene	300	U	150	300	500	500
10061-02-6	trans-1,3-Dichloropropene	300	U	120	300	500	500
79-01-6	Trichloroethene	18000		150	300	500	500
75-69-4	Trichlorofluoromethane	500	U	200	500	1000	1000
108-05-4	Vinyl acetate	5000	U	2500	5000	10000	10000
75-01-4	Vinyl chloride	97	J	70	150	300	300

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (23-24)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.45 (g/mL)	CTL Sample ID:	356200
% Solids:	84.9	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/19/2019 / 00:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	1240		19	51	100	100

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (23-24)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.45 (g/mL)	CTL Sample ID:	356200
% Solids:	84.9	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 14:58	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.91	U	0.27	0.91	1.8	1.8
71-55-6	1,1,1-Trichloroethane	0.91	U	0.27	0.91	1.8	1.8
79-34-5	1,1,2,2-Tetrachloroethane	0.91	U	0.46	0.91	1.8	1.8
79-00-5	1,1,2-Trichloroethane	0.91	U	0.37	0.91	1.8	1.8
75-34-3	1,1-Dichloroethane	0.91	U	0.37	0.91	1.8	1.8
75-35-4	1,1-Dichloroethene	0.91	U	0.37	0.91	1.8	1.8
563-58-6	1,1-Dichloropropene	0.91	U	0.37	0.91	1.8	1.8
87-61-6	1,2,3-Trichlorobenzene	1.8	U	0.82	1.8	3.7	3.7
96-18-4	1,2,3-Trichloropropane	0.91	U	0.46	0.91	1.8	1.8
120-82-1	1,2,4-Trichlorobenzene	1.8	U	0.82	1.8	3.7	3.7
95-63-6	1,2,4-Trimethylbenzene	1.8	U	0.73	1.8	3.7	3.7
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U	1.2	1.8	3.7	3.7
106-93-4	1,2-Dibromoethane	0.91	U	0.37	0.91	1.8	1.8
95-50-1	1,2-Dichlorobenzene	1.8	U	0.82	1.8	3.7	3.7
107-06-2	1,2-Dichloroethane	0.91	U	0.46	0.91	1.8	1.8
78-87-5	1,2-Dichloropropane	0.91	U	0.37	0.91	1.8	1.8
108-67-8	1,3,5-Trimethylbenzene	1.8	U	0.82	1.8	3.7	3.7
541-73-1	1,3-Dichlorobenzene	1.8	U	0.82	1.8	3.7	3.7
142-28-9	1,3-Dichloropropane	0.91	U	0.37	0.91	1.8	1.8
106-46-7	1,4-Dichlorobenzene	1.8	U	0.82	1.8	3.7	3.7
594-20-7	2,2-Dichloropropane	0.91	U	0.37	0.91	1.8	1.8
78-93-3	2-Butanone	18	U	9.1	18	37	37
95-49-8	2-Chlorotoluene	1.8	U	0.91	1.8	3.7	3.7
591-78-6	2-Hexanone	18	U	10	18	37	37

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (23-24)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.45 (g/mL)	CTL Sample ID:	356200
% Solids:	84.9	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 14:58	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.8	U	0.82	1.8	3.7	3.7
108-10-1	4-Methyl-2-pentanone	18	U	9.1	18	37	37
67-64-1	Acetone	18	U	9.1	18	37	37
71-43-2	Benzene	0.91	U	0.27	0.91	1.8	1.8
108-86-1	Bromobenzene	0.91	U	0.46	0.91	1.8	1.8
74-97-5	Bromochloromethane	0.91	U	0.37	0.91	1.8	1.8
75-27-4	Bromodichloromethane	0.91	U	0.37	0.91	1.8	1.8
75-25-2	Bromoform	0.91	U	0.37	0.91	1.8	1.8
74-83-9	Bromomethane	1.8	U Z	0.64	1.8	3.7	3.7
75-15-0	Carbon disulfide	1.8	U	0.82	1.8	3.7	3.7
56-23-5	Carbon tetrachloride	0.91	U	0.27	0.91	1.8	1.8
108-90-7	Chlorobenzene	0.91	U	0.37	0.91	1.8	1.8
75-00-3	Chloroethane	0.91	U	0.46	0.91	1.8	1.8
67-66-3	Chloroform	0.91	U	0.37	0.91	1.8	1.8
74-87-3	Chloromethane	0.91	U	0.37	0.91	1.8	1.8
156-59-2	cis-1,2-Dichloroethene	28.0		0.37	0.91	1.8	1.8
10061-01-5	cis-1,3-Dichloropropene	0.91	U	0.27	0.91	1.8	1.8
124-48-1	Dibromochloromethane	0.91	U	0.37	0.91	1.8	1.8
74-95-3	Dibromomethane	0.91	U	0.37	0.91	1.8	1.8
75-71-8	Dichlorodifluoromethane	1.8	U	0.91	1.8	3.7	3.7
100-41-4	Ethylbenzene	0.91	U	0.37	0.91	1.8	1.8
76-13-1	Freon 113	1.8	U	0.91	1.8	3.7	3.7
87-68-3	Hexachlorobutadiene	1.8	U	0.91	1.8	3.7	3.7
98-82-8	Isopropylbenzene	0.91	U	0.27	0.91	1.8	1.8

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (23-24)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.45 (g/mL)	CTL Sample ID:	356200
% Solids:	84.9	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 14:58	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.8	U	0.64	1.8	3.7	3.7
75-09-2	Methylene chloride	1.8	U	1.6	1.8	3.7	3.7
91-20-3	Naphthalene	1.8	U	0.91	1.8	3.7	3.7
104-51-8	n-Butylbenzene	1.8	U	0.82	1.8	3.7	3.7
103-65-1	n-Propylbenzene	1.8	U	0.82	1.8	3.7	3.7
95-47-6	o-Xylene	0.91	U	0.37	0.91	1.8	1.8
99-87-6	p-Isopropyltoluene	1.8	U	0.91	1.8	3.7	3.7
135-98-8	sec-Butylbenzene	1.8	U	0.82	1.8	3.7	3.7
100-42-5	Styrene	0.91	U	0.27	0.91	1.8	1.8
98-06-6	tert-Butylbenzene	1.8	U	0.82	1.8	3.7	3.7
127-18-4	Tetrachloroethene	0.91	U	0.37	0.91	1.8	1.8
108-88-3	Toluene	0.91	U	0.37	0.91	1.8	1.8
156-60-5	trans-1,2-Dichloroethene	0.91	U	0.37	0.91	1.8	1.8
10061-02-6	trans-1,3-Dichloropropene	0.91	U	0.37	0.91	1.8	1.8
75-69-4	Trichlorofluoromethane	0.91	U	0.46	0.91	1.8	1.8
108-05-4	Vinyl acetate	18	U	11	18	37	37
75-01-4	Vinyl chloride	0.91	U	0.46	0.91	1.8	1.8

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.11 (g/mL)	CTL Sample ID:	356201
% Solids:	86.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/19/2019 / 01:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
156-59-2	cis-1,2-Dichloroethene	205		26	47	95	95
79-01-6	Trichloroethene	3180		18	47	95	95

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.11 (g/mL)	CTL Sample ID:	356201
% Solids:	86.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 15:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.95	U	0.28	0.95	1.9	1.9
71-55-6	1,1,1-Trichloroethane	0.95	U	0.28	0.95	1.9	1.9
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.47	0.95	1.9	1.9
79-00-5	1,1,2-Trichloroethane	0.95	U	0.38	0.95	1.9	1.9
75-34-3	1,1-Dichloroethane	0.95	U	0.38	0.95	1.9	1.9
75-35-4	1,1-Dichloroethene	1.99		0.38	0.95	1.9	1.9
563-58-6	1,1-Dichloropropene	0.95	U	0.38	0.95	1.9	1.9
87-61-6	1,2,3-Trichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
96-18-4	1,2,3-Trichloropropane	0.95	U	0.47	0.95	1.9	1.9
120-82-1	1,2,4-Trichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
95-63-6	1,2,4-Trimethylbenzene	1.9	U	0.76	1.9	3.8	3.8
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U	1.2	1.9	3.8	3.8
106-93-4	1,2-Dibromoethane	0.95	U	0.38	0.95	1.9	1.9
95-50-1	1,2-Dichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
107-06-2	1,2-Dichloroethane	0.95	U	0.47	0.95	1.9	1.9
78-87-5	1,2-Dichloropropane	0.95	U	0.38	0.95	1.9	1.9
108-67-8	1,3,5-Trimethylbenzene	1.9	U	0.85	1.9	3.8	3.8
541-73-1	1,3-Dichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
142-28-9	1,3-Dichloropropane	0.95	U	0.38	0.95	1.9	1.9
106-46-7	1,4-Dichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
594-20-7	2,2-Dichloropropane	0.95	U	0.38	0.95	1.9	1.9
78-93-3	2-Butanone	19	U	9.5	19	38	38
95-49-8	2-Chlorotoluene	1.9	U	0.95	1.9	3.8	3.8
591-78-6	2-Hexanone	19	U	10	19	38	38

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.11 (g/mL)	CTL Sample ID:	356201
% Solids:	86.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 15:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.9	U	0.85	1.9	3.8	3.8
108-10-1	4-Methyl-2-pentanone	19	U	9.5	19	38	38
67-64-1	Acetone	19	U	9.5	19	38	38
71-43-2	Benzene	0.95	U	0.28	0.95	1.9	1.9
108-86-1	Bromobenzene	0.95	U	0.47	0.95	1.9	1.9
74-97-5	Bromochloromethane	0.95	U	0.38	0.95	1.9	1.9
75-27-4	Bromodichloromethane	0.95	U	0.38	0.95	1.9	1.9
75-25-2	Bromoform	0.95	U	0.38	0.95	1.9	1.9
74-83-9	Bromomethane	1.9	U Z	0.66	1.9	3.8	3.8
75-15-0	Carbon disulfide	1.9	U	0.85	1.9	3.8	3.8
56-23-5	Carbon tetrachloride	0.95	U	0.28	0.95	1.9	1.9
108-90-7	Chlorobenzene	0.95	U	0.38	0.95	1.9	1.9
75-00-3	Chloroethane	0.95	U	0.47	0.95	1.9	1.9
67-66-3	Chloroform	0.95	U	0.38	0.95	1.9	1.9
74-87-3	Chloromethane	0.95	U	0.38	0.95	1.9	1.9
10061-01-5	cis-1,3-Dichloropropene	0.95	U	0.28	0.95	1.9	1.9
124-48-1	Dibromochloromethane	0.95	U	0.38	0.95	1.9	1.9
74-95-3	Dibromomethane	0.95	U	0.38	0.95	1.9	1.9
75-71-8	Dichlorodifluoromethane	1.9	U	0.95	1.9	3.8	3.8
100-41-4	Ethylbenzene	0.95	U	0.38	0.95	1.9	1.9
76-13-1	Freon 113	1.9	U	0.95	1.9	3.8	3.8
87-68-3	Hexachlorobutadiene	1.9	U	0.95	1.9	3.8	3.8
98-82-8	Isopropylbenzene	0.95	U	0.28	0.95	1.9	1.9
179601-23-1	m & p-Xylene	1.9	U	0.66	1.9	3.8	3.8

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.11 (g/mL)	CTL Sample ID:	356201
% Solids:	86.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 15:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
75-09-2	Methylene chloride	1.9	U	1.6	1.9	3.8	3.8
91-20-3	Naphthalene	1.9	U	0.95	1.9	3.8	3.8
104-51-8	n-Butylbenzene	1.9	U	0.85	1.9	3.8	3.8
103-65-1	n-Propylbenzene	1.9	U	0.85	1.9	3.8	3.8
95-47-6	o-Xylene	0.95	U	0.38	0.95	1.9	1.9
99-87-6	p-Isopropyltoluene	1.9	U	0.95	1.9	3.8	3.8
135-98-8	sec-Butylbenzene	1.9	U	0.85	1.9	3.8	3.8
100-42-5	Styrene	0.95	U	0.28	0.95	1.9	1.9
98-06-6	tert-Butylbenzene	1.9	U	0.85	1.9	3.8	3.8
127-18-4	Tetrachloroethene	0.95	U	0.38	0.95	1.9	1.9
108-88-3	Toluene	1.23	J	0.38	0.95	1.9	1.9
156-60-5	trans-1,2-Dichloroethene	0.474	J	0.38	0.95	1.9	1.9
10061-02-6	trans-1,3-Dichloropropene	0.95	U	0.38	0.95	1.9	1.9
75-69-4	Trichlorofluoromethane	0.95	U	0.47	0.95	1.9	1.9
108-05-4	Vinyl acetate	19	U	11	19	38	38
75-01-4	Vinyl chloride	0.95	U	0.47	0.95	1.9	1.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.28 (g/mL)	CTL Sample ID:	356202
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	2.00
Date & Time Analyzed:	11/19/2019 / 01:56	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
156-59-2	cis-1,2-Dichloroethene	285		56	100	210	210
79-01-6	Trichloroethene	4100		39	100	210	210

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.28 (g/mL)	CTL Sample ID:	356202
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 15:56	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.95	U	0.28	0.95	1.9	1.9
71-55-6	1,1,1-Trichloroethane	0.95	U	0.28	0.95	1.9	1.9
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.47	0.95	1.9	1.9
79-00-5	1,1,2-Trichloroethane	0.95	U	0.38	0.95	1.9	1.9
75-34-3	1,1-Dichloroethane	0.95	U	0.38	0.95	1.9	1.9
75-35-4	1,1-Dichloroethene	2.93		0.38	0.95	1.9	1.9
563-58-6	1,1-Dichloropropene	0.95	U	0.38	0.95	1.9	1.9
87-61-6	1,2,3-Trichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
96-18-4	1,2,3-Trichloropropane	0.95	U	0.47	0.95	1.9	1.9
120-82-1	1,2,4-Trichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
95-63-6	1,2,4-Trimethylbenzene	1.9	U	0.76	1.9	3.8	3.8
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U	1.2	1.9	3.8	3.8
106-93-4	1,2-Dibromoethane	0.95	U	0.38	0.95	1.9	1.9
95-50-1	1,2-Dichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
107-06-2	1,2-Dichloroethane	0.95	U	0.47	0.95	1.9	1.9
78-87-5	1,2-Dichloropropane	0.95	U	0.38	0.95	1.9	1.9
108-67-8	1,3,5-Trimethylbenzene	1.9	U	0.85	1.9	3.8	3.8
541-73-1	1,3-Dichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
142-28-9	1,3-Dichloropropane	0.95	U	0.38	0.95	1.9	1.9
106-46-7	1,4-Dichlorobenzene	1.9	U	0.85	1.9	3.8	3.8
594-20-7	2,2-Dichloropropane	0.95	U	0.38	0.95	1.9	1.9
78-93-3	2-Butanone	19	U	9.5	19	38	38
95-49-8	2-Chlorotoluene	1.9	U	0.95	1.9	3.8	3.8
591-78-6	2-Hexanone	19	U	10	19	38	38

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.28 (g/mL)	CTL Sample ID:	356202
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 15:56	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.9	U	0.85	1.9	3.8	3.8
108-10-1	4-Methyl-2-pentanone	19	U	9.5	19	38	38
67-64-1	Acetone	19	U	9.5	19	38	38
71-43-2	Benzene	0.95	U	0.28	0.95	1.9	1.9
108-86-1	Bromobenzene	0.95	U	0.47	0.95	1.9	1.9
74-97-5	Bromochloromethane	0.95	U	0.38	0.95	1.9	1.9
75-27-4	Bromodichloromethane	0.95	U	0.38	0.95	1.9	1.9
75-25-2	Bromoform	0.95	U	0.38	0.95	1.9	1.9
74-83-9	Bromomethane	1.9	U Z	0.66	1.9	3.8	3.8
75-15-0	Carbon disulfide	1.9	U	0.85	1.9	3.8	3.8
56-23-5	Carbon tetrachloride	0.95	U	0.28	0.95	1.9	1.9
108-90-7	Chlorobenzene	0.95	U	0.38	0.95	1.9	1.9
75-00-3	Chloroethane	0.95	U	0.47	0.95	1.9	1.9
67-66-3	Chloroform	0.95	U	0.38	0.95	1.9	1.9
74-87-3	Chloromethane	0.95	U	0.38	0.95	1.9	1.9
10061-01-5	cis-1,3-Dichloropropene	0.95	U	0.28	0.95	1.9	1.9
124-48-1	Dibromochloromethane	0.95	U	0.38	0.95	1.9	1.9
74-95-3	Dibromomethane	0.95	U	0.38	0.95	1.9	1.9
75-71-8	Dichlorodifluoromethane	1.9	U	0.95	1.9	3.8	3.8
100-41-4	Ethylbenzene	0.95	U	0.38	0.95	1.9	1.9
76-13-1	Freon 113	1.9	U	0.95	1.9	3.8	3.8
87-68-3	Hexachlorobutadiene	1.9	U	0.95	1.9	3.8	3.8
98-82-8	Isopropylbenzene	0.95	U	0.28	0.95	1.9	1.9
179601-23-1	m & p-Xylene	1.9	U	0.66	1.9	3.8	3.8

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.28 (g/mL)	CTL Sample ID:	356202
% Solids:	84.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 15:56	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
75-09-2	Methylene chloride	1.9	U	1.6	1.9	3.8	3.8
91-20-3	Naphthalene	1.9	U	0.95	1.9	3.8	3.8
104-51-8	n-Butylbenzene	1.9	U	0.85	1.9	3.8	3.8
103-65-1	n-Propylbenzene	1.9	U	0.85	1.9	3.8	3.8
95-47-6	o-Xylene	0.95	U	0.38	0.95	1.9	1.9
99-87-6	p-Isopropyltoluene	1.9	U	0.95	1.9	3.8	3.8
135-98-8	sec-Butylbenzene	1.9	U	0.85	1.9	3.8	3.8
100-42-5	Styrene	0.95	U	0.28	0.95	1.9	1.9
98-06-6	tert-Butylbenzene	1.9	U	0.85	1.9	3.8	3.8
127-18-4	Tetrachloroethene	0.95	U	0.38	0.95	1.9	1.9
108-88-3	Toluene	0.95	U	0.38	0.95	1.9	1.9
156-60-5	trans-1,2-Dichloroethene	0.756	J	0.38	0.95	1.9	1.9
10061-02-6	trans-1,3-Dichloropropene	0.95	U	0.38	0.95	1.9	1.9
75-69-4	Trichlorofluoromethane	0.95	U	0.47	0.95	1.9	1.9
108-05-4	Vinyl acetate	19	U	11	19	38	38
75-01-4	Vinyl chloride	29.8		0.47	0.95	1.9	1.9

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356221
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	500.00
Date & Time Analyzed:	11/14/2019 / 22:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	500	U	200	500	1000	1000
71-55-6	1,1,1-Trichloroethane	300	U	150	300	500	500
79-34-5	1,1,2,2-Tetrachloroethane	300	U	150	300	500	500
79-00-5	1,1,2-Trichloroethane	300	U	150	300	500	500
75-34-3	1,1-Dichloroethane	300	U	150	300	500	500
75-35-4	1,1-Dichloroethene	500	U	200	500	1000	1000
563-58-6	1,1-Dichloropropene	300	U	150	300	500	500
87-61-6	1,2,3-Trichlorobenzene	300	U	120	300	500	500
96-18-4	1,2,3-Trichloropropane	300	U	150	300	500	500
120-82-1	1,2,4-Trichlorobenzene	300	U	140	300	500	500
95-63-6	1,2,4-Trimethylbenzene	300	U	150	300	500	500
96-12-8	1,2-Dibromo-3-chloropropane	300	U	130	300	500	500
106-93-4	1,2-Dibromoethane	300	U	150	300	500	500
95-50-1	1,2-Dichlorobenzene	300	U	150	300	500	500
107-06-2	1,2-Dichloroethane	300	U	120	300	500	500
78-87-5	1,2-Dichloropropane	300	U	90	300	500	500
108-67-8	1,3,5-Trimethylbenzene	300	U	140	300	500	500
541-73-1	1,3-Dichlorobenzene	300	U	130	300	500	500
142-28-9	1,3-Dichloropropane	150	U	85	150	300	300
106-46-7	1,4-Dichlorobenzene	300	U	150	300	500	500
594-20-7	2,2-Dichloropropane	300	U	150	300	500	500
78-93-3	2-Butanone	3000	U	1300	3000	5000	5000
95-49-8	2-Chlorotoluene	300	U	130	300	500	500
591-78-6	2-Hexanone	3000	U	1500	3000	5000	5000

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356221
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	500.00
Date & Time Analyzed:	11/14/2019 / 22:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	300	U	150	300	500	500
108-10-1	4-Methyl-2-pentanone	3000	U	1100	3000	5000	5000
67-64-1	Acetone	5000	U	2000	5000	10000	10000
71-43-2	Benzene	500	U	200	500	1000	1000
108-86-1	Bromobenzene	500	U	200	500	1000	1000
74-97-5	Bromochloromethane	300	U	150	300	500	500
75-27-4	Bromodichloromethane	300	U	150	300	500	500
75-25-2	Bromoform	500	U	200	500	1000	1000
74-83-9	Bromomethane	1000	U	450	1000	2000	2000
75-15-0	Carbon disulfide	1000	U	300	1000	2000	2000
56-23-5	Carbon tetrachloride	300	U	150	300	500	500
108-90-7	Chlorobenzene	300	U	150	300	500	500
75-00-3	Chloroethane	500	U	250	500	1000	1000
67-66-3	Chloroform	300	U	150	300	500	500
74-87-3	Chloromethane	500	U	300	500	1000	1000
156-59-2	cis-1,2-Dichloroethene	1500		150	300	500	500
10061-01-5	cis-1,3-Dichloropropene	150	U	80	150	300	300
124-48-1	Dibromochloromethane	300	U	150	300	500	500
74-95-3	Dibromomethane	300	U	110	300	500	500
75-71-8	Dichlorodifluoromethane	500	U	200	500	1000	1000
100-41-4	Ethylbenzene	300	U	150	300	500	500
76-13-1	Freon 113	1000	U	350	1000	2000	2000
87-68-3	Hexachlorobutadiene	500	U	200	500	1000	1000
98-82-8	Isopropylbenzene	300	U	150	300	500	500

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356221
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	500.00
Date & Time Analyzed:	11/14/2019 / 22:13	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	600	U	350	600	1000	1000
75-09-2	Methylene chloride	500	U	200	500	1000	1000
91-20-3	Naphthalene	300	U	150	300	500	500
104-51-8	n-Butylbenzene	300	U	150	300	500	500
103-65-1	n-Propylbenzene	300	U	150	300	500	500
95-47-6	o-Xylene	300	U	130	300	500	500
99-87-6	p-Isopropyltoluene	300	U	150	300	500	500
135-98-8	sec-Butylbenzene	500	U Z	200	500	1000	1000
100-42-5	Styrene	300	U	150	300	500	500
98-06-6	tert-Butylbenzene	500	U	200	500	1000	1000
127-18-4	Tetrachloroethene	300	U	140	300	500	500
108-88-3	Toluene	300	U	110	300	500	500
156-60-5	trans-1,2-Dichloroethene	300	U	150	300	500	500
10061-02-6	trans-1,3-Dichloropropene	300	U	120	300	500	500
79-01-6	Trichloroethene	22000		150	300	500	500
75-69-4	Trichlorofluoromethane	500	U	200	500	1000	1000
108-05-4	Vinyl acetate	5000	U	2500	5000	10000	10000
75-01-4	Vinyl chloride	150	U	70	150	300	300

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (22-23)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.60 (g/mL)	CTL Sample ID:	356204
% Solids:	85.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/19/2019 / 10:00	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	1100		18	47	93	93

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (22-23)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.60 (g/mL)	CTL Sample ID:	356204
% Solids:	85.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 16:54	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.77	U	0.23	0.77	1.5	1.5
71-55-6	1,1,1-Trichloroethane	0.77	U	0.23	0.77	1.5	1.5
79-34-5	1,1,2,2-Tetrachloroethane	0.77	U	0.39	0.77	1.5	1.5
79-00-5	1,1,2-Trichloroethane	0.77	U	0.31	0.77	1.5	1.5
75-34-3	1,1-Dichloroethane	0.77	U	0.31	0.77	1.5	1.5
75-35-4	1,1-Dichloroethene	0.77	U	0.31	0.77	1.5	1.5
563-58-6	1,1-Dichloropropene	0.77	U	0.31	0.77	1.5	1.5
87-61-6	1,2,3-Trichlorobenzene	1.5	U	0.69	1.5	3.1	3.1
96-18-4	1,2,3-Trichloropropane	0.77	U	0.39	0.77	1.5	1.5
120-82-1	1,2,4-Trichlorobenzene	1.5	U	0.69	1.5	3.1	3.1
95-63-6	1,2,4-Trimethylbenzene	1.5	U	0.62	1.5	3.1	3.1
96-12-8	1,2-Dibromo-3-chloropropane	1.5	U	1.0	1.5	3.1	3.1
106-93-4	1,2-Dibromoethane	0.77	U	0.31	0.77	1.5	1.5
95-50-1	1,2-Dichlorobenzene	1.5	U	0.69	1.5	3.1	3.1
107-06-2	1,2-Dichloroethane	0.77	U	0.39	0.77	1.5	1.5
78-87-5	1,2-Dichloropropane	0.77	U	0.31	0.77	1.5	1.5
108-67-8	1,3,5-Trimethylbenzene	1.5	U	0.69	1.5	3.1	3.1
541-73-1	1,3-Dichlorobenzene	1.5	U	0.69	1.5	3.1	3.1
142-28-9	1,3-Dichloropropane	0.77	U	0.31	0.77	1.5	1.5
106-46-7	1,4-Dichlorobenzene	1.5	U	0.69	1.5	3.1	3.1
594-20-7	2,2-Dichloropropane	0.77	U	0.31	0.77	1.5	1.5
78-93-3	2-Butanone	15	U	7.7	15	31	31
95-49-8	2-Chlorotoluene	1.5	U	0.77	1.5	3.1	3.1
591-78-6	2-Hexanone	15	U	8.5	15	31	31

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (22-23)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.60 (g/mL)	CTL Sample ID:	356204
% Solids:	85.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 16:54	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.5	U	0.69	1.5	3.1	3.1
108-10-1	4-Methyl-2-pentanone	15	U	7.7	15	31	31
67-64-1	Acetone	15	U	7.7	15	31	31
71-43-2	Benzene	0.77	U	0.23	0.77	1.5	1.5
108-86-1	Bromobenzene	0.77	U	0.39	0.77	1.5	1.5
74-97-5	Bromochloromethane	0.77	U	0.31	0.77	1.5	1.5
75-27-4	Bromodichloromethane	0.77	U	0.31	0.77	1.5	1.5
75-25-2	Bromoform	0.77	U	0.31	0.77	1.5	1.5
74-83-9	Bromomethane	1.5	U Z	0.54	1.5	3.1	3.1
75-15-0	Carbon disulfide	1.5	U	0.69	1.5	3.1	3.1
56-23-5	Carbon tetrachloride	0.77	U	0.23	0.77	1.5	1.5
108-90-7	Chlorobenzene	0.77	U	0.31	0.77	1.5	1.5
75-00-3	Chloroethane	0.77	U	0.39	0.77	1.5	1.5
67-66-3	Chloroform	0.77	U	0.31	0.77	1.5	1.5
74-87-3	Chloromethane	0.77	U	0.31	0.77	1.5	1.5
156-59-2	cis-1,2-Dichloroethene	50.1		0.31	0.77	1.5	1.5
10061-01-5	cis-1,3-Dichloropropene	0.77	U	0.23	0.77	1.5	1.5
124-48-1	Dibromochloromethane	0.77	U	0.31	0.77	1.5	1.5
74-95-3	Dibromomethane	0.77	U	0.31	0.77	1.5	1.5
75-71-8	Dichlorodifluoromethane	1.5	U	0.77	1.5	3.1	3.1
100-41-4	Ethylbenzene	0.77	U	0.31	0.77	1.5	1.5
76-13-1	Freon 113	1.5	U	0.77	1.5	3.1	3.1
87-68-3	Hexachlorobutadiene	1.5	U	0.77	1.5	3.1	3.1
98-82-8	Isopropylbenzene	0.77	U	0.23	0.77	1.5	1.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (22-23)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.60 (g/mL)	CTL Sample ID:	356204
% Solids:	85.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 16:54	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.5	U	0.54	1.5	3.1	3.1
75-09-2	Methylene chloride	1.5	U	1.3	1.5	3.1	3.1
91-20-3	Naphthalene	1.5	U	0.77	1.5	3.1	3.1
104-51-8	n-Butylbenzene	1.5	U	0.69	1.5	3.1	3.1
103-65-1	n-Propylbenzene	1.5	U	0.69	1.5	3.1	3.1
95-47-6	o-Xylene	0.77	U	0.31	0.77	1.5	1.5
99-87-6	p-Isopropyltoluene	1.5	U	0.77	1.5	3.1	3.1
135-98-8	sec-Butylbenzene	1.5	U	0.69	1.5	3.1	3.1
100-42-5	Styrene	0.77	U	0.23	0.77	1.5	1.5
98-06-6	tert-Butylbenzene	1.5	U	0.69	1.5	3.1	3.1
127-18-4	Tetrachloroethene	0.77	U	0.31	0.77	1.5	1.5
108-88-3	Toluene	0.77	U	0.31	0.77	1.5	1.5
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.31	0.77	1.5	1.5
10061-02-6	trans-1,3-Dichloropropene	0.77	U	0.31	0.77	1.5	1.5
75-69-4	Trichlorofluoromethane	0.77	U	0.39	0.77	1.5	1.5
108-05-4	Vinyl acetate	15	U	9.3	15	31	31
75-01-4	Vinyl chloride	0.77	U	0.39	0.77	1.5	1.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.48 (g/mL)	CTL Sample ID:	356205
% Solids:	89.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	2.00
Date & Time Analyzed:	11/19/2019 / 10:29	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
79-01-6	Trichloroethene	3810		35	92	180	180

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.48 (g/mL)	CTL Sample ID:	356205
% Solids:	89.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/19/2019 / 13:21	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
156-59-2	cis-1,2-Dichloroethene	105		25	46	92	92

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.48 (g/mL)	CTL Sample ID:	356205
% Solids:	89.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 17:23	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.86	U	0.26	0.86	1.7	1.7
71-55-6	1,1,1-Trichloroethane	0.86	U	0.26	0.86	1.7	1.7
79-34-5	1,1,2,2-Tetrachloroethane	0.86	U	0.43	0.86	1.7	1.7
79-00-5	1,1,2-Trichloroethane	0.86	U	0.34	0.86	1.7	1.7
75-34-3	1,1-Dichloroethane	0.86	U	0.34	0.86	1.7	1.7
75-35-4	1,1-Dichloroethene	0.601	J	0.34	0.86	1.7	1.7
563-58-6	1,1-Dichloropropene	0.86	U	0.34	0.86	1.7	1.7
87-61-6	1,2,3-Trichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
96-18-4	1,2,3-Trichloropropane	0.86	U	0.43	0.86	1.7	1.7
120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
95-63-6	1,2,4-Trimethylbenzene	1.7	U	0.69	1.7	3.4	3.4
96-12-8	1,2-Dibromo-3-chloropropane	1.7	U	1.1	1.7	3.4	3.4
106-93-4	1,2-Dibromoethane	0.86	U	0.34	0.86	1.7	1.7
95-50-1	1,2-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
107-06-2	1,2-Dichloroethane	0.86	U	0.43	0.86	1.7	1.7
78-87-5	1,2-Dichloropropane	0.86	U	0.34	0.86	1.7	1.7
108-67-8	1,3,5-Trimethylbenzene	1.7	U	0.77	1.7	3.4	3.4
541-73-1	1,3-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
142-28-9	1,3-Dichloropropane	0.86	U	0.34	0.86	1.7	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
594-20-7	2,2-Dichloropropane	0.86	U	0.34	0.86	1.7	1.7
78-93-3	2-Butanone	17	U	8.6	17	34	34
95-49-8	2-Chlorotoluene	1.7	U	0.86	1.7	3.4	3.4
591-78-6	2-Hexanone	17	U	9.5	17	34	34

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.48 (g/mL)	CTL Sample ID:	356205
% Solids:	89.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 17:23	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.7	U	0.77	1.7	3.4	3.4
108-10-1	4-Methyl-2-pentanone	17	U	8.6	17	34	34
67-64-1	Acetone	17	U	8.6	17	34	34
71-43-2	Benzene	0.86	U	0.26	0.86	1.7	1.7
108-86-1	Bromobenzene	0.86	U	0.43	0.86	1.7	1.7
74-97-5	Bromochloromethane	0.86	U	0.34	0.86	1.7	1.7
75-27-4	Bromodichloromethane	0.86	U	0.34	0.86	1.7	1.7
75-25-2	Bromoform	0.86	U	0.34	0.86	1.7	1.7
74-83-9	Bromomethane	1.7	U Z	0.60	1.7	3.4	3.4
75-15-0	Carbon disulfide	1.7	U	0.77	1.7	3.4	3.4
56-23-5	Carbon tetrachloride	0.86	U	0.26	0.86	1.7	1.7
108-90-7	Chlorobenzene	0.86	U	0.34	0.86	1.7	1.7
75-00-3	Chloroethane	0.86	U	0.43	0.86	1.7	1.7
67-66-3	Chloroform	0.430	J	0.34	0.86	1.7	1.7
74-87-3	Chloromethane	0.86	U	0.34	0.86	1.7	1.7
10061-01-5	cis-1,3-Dichloropropene	0.86	U	0.26	0.86	1.7	1.7
124-48-1	Dibromochloromethane	0.86	U	0.34	0.86	1.7	1.7
74-95-3	Dibromomethane	0.86	U	0.34	0.86	1.7	1.7
75-71-8	Dichlorodifluoromethane	1.7	U	0.86	1.7	3.4	3.4
100-41-4	Ethylbenzene	0.86	U	0.34	0.86	1.7	1.7
76-13-1	Freon 113	1.7	U	0.86	1.7	3.4	3.4
87-68-3	Hexachlorobutadiene	1.7	U	0.86	1.7	3.4	3.4
98-82-8	Isopropylbenzene	0.86	U	0.26	0.86	1.7	1.7
179601-23-1	m & p-Xylene	1.7	U	0.60	1.7	3.4	3.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	6.48 (g/mL)	CTL Sample ID:	356205
% Solids:	89.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 17:23	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
75-09-2	Methylene chloride	1.7	U	1.5	1.7	3.4	3.4
91-20-3	Naphthalene	1.7	U	0.86	1.7	3.4	3.4
104-51-8	n-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
103-65-1	n-Propylbenzene	1.7	U	0.77	1.7	3.4	3.4
95-47-6	o-Xylene	0.86	U	0.34	0.86	1.7	1.7
99-87-6	p-Isopropyltoluene	1.7	U	0.86	1.7	3.4	3.4
135-98-8	sec-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
100-42-5	Styrene	0.86	U	0.26	0.86	1.7	1.7
98-06-6	tert-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
127-18-4	Tetrachloroethene	0.86	U	0.34	0.86	1.7	1.7
108-88-3	Toluene	0.86	U	0.34	0.86	1.7	1.7
156-60-5	trans-1,2-Dichloroethene	0.430	J	0.34	0.86	1.7	1.7
10061-02-6	trans-1,3-Dichloropropene	0.86	U	0.34	0.86	1.7	1.7
75-69-4	Trichlorofluoromethane	0.86	U	0.43	0.86	1.7	1.7
108-05-4	Vinyl acetate	17	U	10	17	34	34
75-01-4	Vinyl chloride	1.03	J	0.43	0.86	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.22 (g/mL)	CTL Sample ID:	356206
% Solids:	84.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	2.00
Date & Time Analyzed:	11/19/2019 / 10:57	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
156-59-2	cis-1,2-Dichloroethene	229		55	100	200	200
79-01-6	Trichloroethene	3080		38	100	200	200

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.22 (g/mL)	CTL Sample ID:	356206
% Solids:	84.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 17:52	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.82	U	0.25	0.82	1.6	1.6
71-55-6	1,1,1-Trichloroethane	0.82	U	0.25	0.82	1.6	1.6
79-34-5	1,1,2,2-Tetrachloroethane	0.82	U	0.41	0.82	1.6	1.6
79-00-5	1,1,2-Trichloroethane	0.82	U	0.33	0.82	1.6	1.6
75-34-3	1,1-Dichloroethane	0.82	U	0.33	0.82	1.6	1.6
75-35-4	1,1-Dichloroethene	1.88		0.33	0.82	1.6	1.6
563-58-6	1,1-Dichloropropene	0.82	U	0.33	0.82	1.6	1.6
87-61-6	1,2,3-Trichlorobenzene	1.6	U	0.74	1.6	3.3	3.3
96-18-4	1,2,3-Trichloropropane	1.96		0.41	0.82	1.6	1.6
120-82-1	1,2,4-Trichlorobenzene	1.6	U	0.74	1.6	3.3	3.3
95-63-6	1,2,4-Trimethylbenzene	1.6	U	0.65	1.6	3.3	3.3
96-12-8	1,2-Dibromo-3-chloropropane	1.6	U	1.1	1.6	3.3	3.3
106-93-4	1,2-Dibromoethane	0.82	U	0.33	0.82	1.6	1.6
95-50-1	1,2-Dichlorobenzene	1.6	U	0.74	1.6	3.3	3.3
107-06-2	1,2-Dichloroethane	0.82	U	0.41	0.82	1.6	1.6
78-87-5	1,2-Dichloropropane	0.82	U	0.33	0.82	1.6	1.6
108-67-8	1,3,5-Trimethylbenzene	1.6	U	0.74	1.6	3.3	3.3
541-73-1	1,3-Dichlorobenzene	1.6	U	0.74	1.6	3.3	3.3
142-28-9	1,3-Dichloropropane	0.82	U	0.33	0.82	1.6	1.6
106-46-7	1,4-Dichlorobenzene	1.6	U	0.74	1.6	3.3	3.3
594-20-7	2,2-Dichloropropane	0.82	U	0.33	0.82	1.6	1.6
78-93-3	2-Butanone	19.9	J	8.2	16	33	33
95-49-8	2-Chlorotoluene	1.6	U	0.82	1.6	3.3	3.3
591-78-6	2-Hexanone	16	U	9.0	16	33	33

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.22 (g/mL)	CTL Sample ID:	356206
% Solids:	84.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 17:52	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.6	U	0.74	1.6	3.3	3.3
108-10-1	4-Methyl-2-pentanone	16	U	8.2	16	33	33
67-64-1	Acetone	16	U	8.2	16	33	33
71-43-2	Benzene	0.572	J	0.25	0.82	1.6	1.6
108-86-1	Bromobenzene	0.82	U	0.41	0.82	1.6	1.6
74-97-5	Bromochloromethane	0.82	U	0.33	0.82	1.6	1.6
75-27-4	Bromodichloromethane	0.82	U	0.33	0.82	1.6	1.6
75-25-2	Bromoform	0.82	U	0.33	0.82	1.6	1.6
74-83-9	Bromomethane	1.6	U Z	0.57	1.6	3.3	3.3
75-15-0	Carbon disulfide	1.6	U	0.74	1.6	3.3	3.3
56-23-5	Carbon tetrachloride	0.82	U	0.25	0.82	1.6	1.6
108-90-7	Chlorobenzene	0.82	U	0.33	0.82	1.6	1.6
75-00-3	Chloroethane	0.82	U	0.41	0.82	1.6	1.6
67-66-3	Chloroform	0.82	U	0.33	0.82	1.6	1.6
74-87-3	Chloromethane	0.82	U	0.33	0.82	1.6	1.6
10061-01-5	cis-1,3-Dichloropropene	0.82	U	0.25	0.82	1.6	1.6
124-48-1	Dibromochloromethane	0.82	U	0.33	0.82	1.6	1.6
74-95-3	Dibromomethane	0.82	U	0.33	0.82	1.6	1.6
75-71-8	Dichlorodifluoromethane	1.6	U	0.82	1.6	3.3	3.3
100-41-4	Ethylbenzene	0.82	U	0.33	0.82	1.6	1.6
76-13-1	Freon 113	1.6	U	0.82	1.6	3.3	3.3
87-68-3	Hexachlorobutadiene	1.6	U	0.82	1.6	3.3	3.3
98-82-8	Isopropylbenzene	0.82	U	0.25	0.82	1.6	1.6
179601-23-1	m & p-Xylene	1.6	U	0.57	1.6	3.3	3.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DPT-011 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.22 (g/mL)	CTL Sample ID:	356206
% Solids:	84.7	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 17:52	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
75-09-2	Methylene chloride	1.6	U	1.4	1.6	3.3	3.3
91-20-3	Naphthalene	1.6	U	0.82	1.6	3.3	3.3
104-51-8	n-Butylbenzene	1.6	U	0.74	1.6	3.3	3.3
103-65-1	n-Propylbenzene	1.6	U	0.74	1.6	3.3	3.3
95-47-6	o-Xylene	0.82	U	0.33	0.82	1.6	1.6
99-87-6	p-Isopropyltoluene	1.6	U	0.82	1.6	3.3	3.3
135-98-8	sec-Butylbenzene	1.6	U	0.74	1.6	3.3	3.3
100-42-5	Styrene	0.82	U	0.25	0.82	1.6	1.6
98-06-6	tert-Butylbenzene	1.6	U	0.74	1.6	3.3	3.3
127-18-4	Tetrachloroethene	0.82	U	0.33	0.82	1.6	1.6
108-88-3	Toluene	0.82	U	0.33	0.82	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	0.736	J	0.33	0.82	1.6	1.6
10061-02-6	trans-1,3-Dichloropropene	0.82	U	0.33	0.82	1.6	1.6
75-69-4	Trichlorofluoromethane	0.82	U	0.41	0.82	1.6	1.6
108-05-4	Vinyl acetate	16	U	9.8	16	33	33
75-01-4	Vinyl chloride	10.3		0.41	0.82	1.6	1.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.95 (g/mL)	CTL Sample ID:	356182
% Solids:	79.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 00:34	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.53	1.1	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-34-3	1,1-Dichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-35-4	1,1-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
563-58-6	1,1-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
96-18-4	1,2,3-Trichloropropane	1.1	U	0.53	1.1	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.84	2.1	4.2	4.2
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.4	2.1	4.2	4.2
106-93-4	1,2-Dibromoethane	1.1	U	0.42	1.1	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
107-06-2	1,2-Dichloroethane	1.1	U	0.53	1.1	2.1	2.1
78-87-5	1,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.95	2.1	4.2	4.2
541-73-1	1,3-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
142-28-9	1,3-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
594-20-7	2,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
78-93-3	2-Butanone	21	U	11	21	42	42
95-49-8	2-Chlorotoluene	2.1	U	1.1	2.1	4.2	4.2
591-78-6	2-Hexanone	21	U	12	21	42	42

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.95 (g/mL)	CTL Sample ID:	356182
% Solids:	79.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 00:34	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.1	U	0.95	2.1	4.2	4.2
108-10-1	4-Methyl-2-pentanone	21	U	11	21	42	42
67-64-1	Acetone	16.3	J	11	21	42	42
71-43-2	Benzene	1.1	U	0.32	1.1	2.1	2.1
108-86-1	Bromobenzene	1.1	U	0.53	1.1	2.1	2.1
74-97-5	Bromochloromethane	1.1	U	0.42	1.1	2.1	2.1
75-27-4	Bromodichloromethane	1.1	U	0.42	1.1	2.1	2.1
75-25-2	Bromoform	1.1	U	0.42	1.1	2.1	2.1
74-83-9	Bromomethane	2.1	U	0.74	2.1	4.2	4.2
75-15-0	Carbon disulfide	2.1	U	0.95	2.1	4.2	4.2
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.1	2.1
108-90-7	Chlorobenzene	1.1	U	0.42	1.1	2.1	2.1
75-00-3	Chloroethane	1.1	U	0.53	1.1	2.1	2.1
67-66-3	Chloroform	1.1	U	0.42	1.1	2.1	2.1
74-87-3	Chloromethane	1.1	U	0.42	1.1	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.1	2.1
124-48-1	Dibromochloromethane	1.1	U	0.42	1.1	2.1	2.1
74-95-3	Dibromomethane	1.1	U	0.42	1.1	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U	1.1	2.1	4.2	4.2
100-41-4	Ethylbenzene	1.1	U	0.42	1.1	2.1	2.1
76-13-1	Freon 113	2.1	U	1.1	2.1	4.2	4.2
87-68-3	Hexachlorobutadiene	2.1	U	1.1	2.1	4.2	4.2
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	5.95 (g/mL)	CTL Sample ID:	356182
% Solids:	79.8	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 00:34	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.1	U	0.74	2.1	4.2	4.2
75-09-2	Methylene chloride	2.1	U	1.8	2.1	4.2	4.2
91-20-3	Naphthalene	2.1	U	1.1	2.1	4.2	4.2
104-51-8	n-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
103-65-1	n-Propylbenzene	2.1	U	0.95	2.1	4.2	4.2
95-47-6	o-Xylene	1.1	U	0.42	1.1	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.1	2.1	4.2	4.2
135-98-8	sec-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
100-42-5	Styrene	1.1	U	0.32	1.1	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
127-18-4	Tetrachloroethene	1.1	U	0.42	1.1	2.1	2.1
108-88-3	Toluene	0.842	J	0.42	1.1	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
79-01-6	Trichloroethene	1.1	U	0.32	1.1	2.1	2.1
75-69-4	Trichlorofluoromethane	1.1	U	0.53	1.1	2.1	2.1
108-05-4	Vinyl acetate	21	U	13	21	42	42
75-01-4	Vinyl chloride	1.1	U	0.53	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.87 (g/mL)	CTL Sample ID:	356186
% Solids:	83.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 02:01	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U	0.37	1.2	2.5	2.5
71-55-6	1,1,1-Trichloroethane	1.2	U	0.37	1.2	2.5	2.5
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U	0.62	1.2	2.5	2.5
79-00-5	1,1,2-Trichloroethane	1.2	U	0.49	1.2	2.5	2.5
75-34-3	1,1-Dichloroethane	1.2	U	0.49	1.2	2.5	2.5
75-35-4	1,1-Dichloroethene	1.2	U	0.49	1.2	2.5	2.5
563-58-6	1,1-Dichloropropene	1.2	U	0.49	1.2	2.5	2.5
87-61-6	1,2,3-Trichlorobenzene	2.5	U	1.1	2.5	4.9	4.9
96-18-4	1,2,3-Trichloropropane	1.2	U	0.62	1.2	2.5	2.5
120-82-1	1,2,4-Trichlorobenzene	2.5	U	1.1	2.5	4.9	4.9
95-63-6	1,2,4-Trimethylbenzene	2.5	U	0.99	2.5	4.9	4.9
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U	1.6	2.5	4.9	4.9
106-93-4	1,2-Dibromoethane	1.2	U	0.49	1.2	2.5	2.5
95-50-1	1,2-Dichlorobenzene	2.5	U	1.1	2.5	4.9	4.9
107-06-2	1,2-Dichloroethane	1.2	U	0.62	1.2	2.5	2.5
78-87-5	1,2-Dichloropropane	1.2	U	0.49	1.2	2.5	2.5
108-67-8	1,3,5-Trimethylbenzene	2.5	U	1.1	2.5	4.9	4.9
541-73-1	1,3-Dichlorobenzene	2.5	U	1.1	2.5	4.9	4.9
142-28-9	1,3-Dichloropropane	1.2	U	0.49	1.2	2.5	2.5
106-46-7	1,4-Dichlorobenzene	2.5	U	1.1	2.5	4.9	4.9
594-20-7	2,2-Dichloropropane	1.2	U	0.49	1.2	2.5	2.5
78-93-3	2-Butanone	25	U	12	25	49	49
95-49-8	2-Chlorotoluene	2.5	U	1.2	2.5	4.9	4.9
591-78-6	2-Hexanone	25	U	14	25	49	49

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.87 (g/mL)	CTL Sample ID:	356186
% Solids:	83.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 02:01	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	2.5	U	1.1	2.5	4.9	4.9
108-10-1	4-Methyl-2-pentanone	25	U	12	25	49	49
67-64-1	Acetone	25	U	12	25	49	49
71-43-2	Benzene	1.2	U	0.37	1.2	2.5	2.5
108-86-1	Bromobenzene	1.2	U	0.62	1.2	2.5	2.5
74-97-5	Bromochloromethane	1.2	U	0.49	1.2	2.5	2.5
75-27-4	Bromodichloromethane	1.2	U	0.49	1.2	2.5	2.5
75-25-2	Bromoform	1.2	U	0.49	1.2	2.5	2.5
74-83-9	Bromomethane	2.5	U	0.86	2.5	4.9	4.9
75-15-0	Carbon disulfide	2.5	U	1.1	2.5	4.9	4.9
56-23-5	Carbon tetrachloride	1.2	U	0.37	1.2	2.5	2.5
108-90-7	Chlorobenzene	1.2	U	0.49	1.2	2.5	2.5
75-00-3	Chloroethane	1.2	U	0.62	1.2	2.5	2.5
67-66-3	Chloroform	1.2	U	0.49	1.2	2.5	2.5
74-87-3	Chloromethane	1.2	U	0.49	1.2	2.5	2.5
156-59-2	cis-1,2-Dichloroethene	1.2	U	0.49	1.2	2.5	2.5
10061-01-5	cis-1,3-Dichloropropene	1.2	U	0.37	1.2	2.5	2.5
124-48-1	Dibromochloromethane	1.2	U	0.49	1.2	2.5	2.5
74-95-3	Dibromomethane	1.2	U	0.49	1.2	2.5	2.5
75-71-8	Dichlorodifluoromethane	2.5	U	1.2	2.5	4.9	4.9
100-41-4	Ethylbenzene	1.2	U	0.49	1.2	2.5	2.5
76-13-1	Freon 113	2.5	U	1.2	2.5	4.9	4.9
87-68-3	Hexachlorobutadiene	2.5	U	1.2	2.5	4.9	4.9
98-82-8	Isopropylbenzene	1.2	U	0.37	1.2	2.5	2.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	4.87 (g/mL)	CTL Sample ID:	356186
% Solids:	83.2	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 02:01	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	2.5	U	0.86	2.5	4.9	4.9
75-09-2	Methylene chloride	2.5	U	2.1	2.5	4.9	4.9
91-20-3	Naphthalene	2.5	U	1.2	2.5	4.9	4.9
104-51-8	n-Butylbenzene	2.5	U	1.1	2.5	4.9	4.9
103-65-1	n-Propylbenzene	2.5	U	1.1	2.5	4.9	4.9
95-47-6	o-Xylene	1.2	U	0.49	1.2	2.5	2.5
99-87-6	p-Isopropyltoluene	2.5	U	1.2	2.5	4.9	4.9
135-98-8	sec-Butylbenzene	2.5	U	1.1	2.5	4.9	4.9
100-42-5	Styrene	1.2	U	0.37	1.2	2.5	2.5
98-06-6	tert-Butylbenzene	2.5	U	1.1	2.5	4.9	4.9
127-18-4	Tetrachloroethene	1.2	U	0.49	1.2	2.5	2.5
108-88-3	Toluene	1.2	U	0.49	1.2	2.5	2.5
156-60-5	trans-1,2-Dichloroethene	1.2	U	0.49	1.2	2.5	2.5
10061-02-6	trans-1,3-Dichloropropene	1.2	U	0.49	1.2	2.5	2.5
79-01-6	Trichloroethene	1.2	U	0.37	1.2	2.5	2.5
75-69-4	Trichlorofluoromethane	1.2	U	0.62	1.2	2.5	2.5
108-05-4	Vinyl acetate	25	U	15	25	49	49
75-01-4	Vinyl chloride	1.2	U	0.62	1.2	2.5	2.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.36 (g/mL)	CTL Sample ID:	356203
% Solids:	84.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	2.00
Date & Time Analyzed:	11/19/2019 / 02:24	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
156-59-2	cis-1,2-Dichloroethene	281		56	100	210	210
79-01-6	Trichloroethene	3910		39	100	210	210

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.36 (g/mL)	CTL Sample ID:	356203
% Solids:	84.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 16:25	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.81	U	0.24	0.81	1.6	1.6
71-55-6	1,1,1-Trichloroethane	0.81	U	0.24	0.81	1.6	1.6
79-34-5	1,1,2,2-Tetrachloroethane	0.81	U	0.40	0.81	1.6	1.6
79-00-5	1,1,2-Trichloroethane	0.81	U	0.32	0.81	1.6	1.6
75-34-3	1,1-Dichloroethane	0.81	U	0.32	0.81	1.6	1.6
75-35-4	1,1-Dichloroethene	2.26		0.32	0.81	1.6	1.6
563-58-6	1,1-Dichloropropene	0.81	U	0.32	0.81	1.6	1.6
87-61-6	1,2,3-Trichlorobenzene	1.6	U	0.73	1.6	3.2	3.2
96-18-4	1,2,3-Trichloropropane	0.81	U	0.40	0.81	1.6	1.6
120-82-1	1,2,4-Trichlorobenzene	1.6	U	0.73	1.6	3.2	3.2
95-63-6	1,2,4-Trimethylbenzene	1.6	U	0.64	1.6	3.2	3.2
96-12-8	1,2-Dibromo-3-chloropropane	1.6	U	1.0	1.6	3.2	3.2
106-93-4	1,2-Dibromoethane	0.81	U	0.32	0.81	1.6	1.6
95-50-1	1,2-Dichlorobenzene	1.6	U	0.73	1.6	3.2	3.2
107-06-2	1,2-Dichloroethane	0.81	U	0.40	0.81	1.6	1.6
78-87-5	1,2-Dichloropropane	0.81	U	0.32	0.81	1.6	1.6
108-67-8	1,3,5-Trimethylbenzene	1.6	U	0.73	1.6	3.2	3.2
541-73-1	1,3-Dichlorobenzene	1.6	U	0.73	1.6	3.2	3.2
142-28-9	1,3-Dichloropropane	0.81	U	0.32	0.81	1.6	1.6
106-46-7	1,4-Dichlorobenzene	1.6	U	0.73	1.6	3.2	3.2
594-20-7	2,2-Dichloropropane	0.81	U	0.32	0.81	1.6	1.6
78-93-3	2-Butanone	16	U	8.1	16	32	32
95-49-8	2-Chlorotoluene	1.6	U	0.81	1.6	3.2	3.2
591-78-6	2-Hexanone	16	U	8.9	16	32	32

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.36 (g/mL)	CTL Sample ID:	356203
% Solids:	84.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 16:25	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	1.6	U	0.73	1.6	3.2	3.2
108-10-1	4-Methyl-2-pentanone	16	U	8.1	16	32	32
67-64-1	Acetone	16	U	8.1	16	32	32
71-43-2	Benzene	0.81	U	0.24	0.81	1.6	1.6
108-86-1	Bromobenzene	0.81	U	0.40	0.81	1.6	1.6
74-97-5	Bromochloromethane	0.81	U	0.32	0.81	1.6	1.6
75-27-4	Bromodichloromethane	0.81	U	0.32	0.81	1.6	1.6
75-25-2	Bromoform	0.81	U	0.32	0.81	1.6	1.6
74-83-9	Bromomethane	1.6	U Z	0.56	1.6	3.2	3.2
75-15-0	Carbon disulfide	1.6	U	0.73	1.6	3.2	3.2
56-23-5	Carbon tetrachloride	0.81	U	0.24	0.81	1.6	1.6
108-90-7	Chlorobenzene	0.81	U	0.32	0.81	1.6	1.6
75-00-3	Chloroethane	0.81	U	0.40	0.81	1.6	1.6
67-66-3	Chloroform	0.81	U	0.32	0.81	1.6	1.6
74-87-3	Chloromethane	0.81	U	0.32	0.81	1.6	1.6
10061-01-5	cis-1,3-Dichloropropene	0.81	U	0.24	0.81	1.6	1.6
124-48-1	Dibromochloromethane	0.81	U	0.32	0.81	1.6	1.6
74-95-3	Dibromomethane	0.81	U	0.32	0.81	1.6	1.6
75-71-8	Dichlorodifluoromethane	1.6	U	0.81	1.6	3.2	3.2
100-41-4	Ethylbenzene	0.81	U	0.32	0.81	1.6	1.6
76-13-1	Freon 113	1.6	U	0.81	1.6	3.2	3.2
87-68-3	Hexachlorobutadiene	1.6	U	0.81	1.6	3.2	3.2
98-82-8	Isopropylbenzene	0.81	U	0.24	0.81	1.6	1.6
179601-23-1	m & p-Xylene	1.6	U	0.56	1.6	3.2	3.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOIL	SDG No.:	149511
Sample wt/vol:	7.36 (g/mL)	CTL Sample ID:	356203
% Solids:	84.3	Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Date & Time Analyzed:	11/13/2019 / 16:25	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
75-09-2	Methylene chloride	1.45	J	1.4	1.6	3.2	3.2
91-20-3	Naphthalene	1.6	U	0.81	1.6	3.2	3.2
104-51-8	n-Butylbenzene	1.6	U	0.73	1.6	3.2	3.2
103-65-1	n-Propylbenzene	1.6	U	0.73	1.6	3.2	3.2
95-47-6	o-Xylene	0.81	U	0.32	0.81	1.6	1.6
99-87-6	p-Isopropyltoluene	1.6	U	0.81	1.6	3.2	3.2
135-98-8	sec-Butylbenzene	1.6	U	0.73	1.6	3.2	3.2
100-42-5	Styrene	0.81	U	0.24	0.81	1.6	1.6
98-06-6	tert-Butylbenzene	1.6	U	0.73	1.6	3.2	3.2
127-18-4	Tetrachloroethene	0.81	U	0.32	0.81	1.6	1.6
108-88-3	Toluene	0.322	J	0.32	0.81	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	0.564	J	0.32	0.81	1.6	1.6
10061-02-6	trans-1,3-Dichloropropene	0.81	U	0.32	0.81	1.6	1.6
75-69-4	Trichlorofluoromethane	0.81	U	0.40	0.81	1.6	1.6
108-05-4	Vinyl acetate	16	U	9.7	16	32	32
75-01-4	Vinyl chloride	21.9		0.40	0.81	1.6	1.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-004

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356208
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 17:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.40	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.60	U	0.29	0.60	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.30	0.60	1.0	1.0
79-00-5	1,1,2-Trichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-34-3	1,1-Dichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	0.60	U	0.30	0.60	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.23	0.60	1.0	1.0
96-18-4	1,2,3-Trichloropropane	0.60	U	0.30	0.60	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	0.60	U	0.28	0.60	1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	0.60	U	0.29	0.60	1.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U	0.25	0.60	1.0	1.0
106-93-4	1,2-Dibromoethane	0.60	U	0.30	0.60	1.0	1.0
95-50-1	1,2-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
107-06-2	1,2-Dichloroethane	0.60	U	0.24	0.60	1.0	1.0
78-87-5	1,2-Dichloropropane	0.60	U	0.18	0.60	1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	0.60	U	0.27	0.60	1.0	1.0
541-73-1	1,3-Dichlorobenzene	0.60	U	0.26	0.60	1.0	1.0
142-28-9	1,3-Dichloropropane	0.30	U	0.17	0.30	0.60	0.60
106-46-7	1,4-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
594-20-7	2,2-Dichloropropane	0.60	U	0.30	0.60	1.0	1.0
78-93-3	2-Butanone	6.0	U	2.6	6.0	10	10
95-49-8	2-Chlorotoluene	0.60	U	0.25	0.60	1.0	1.0
591-78-6	2-Hexanone	6.0	U	3.0	6.0	10	10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-004

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356208
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 17:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	0.60	U	0.30	0.60	1.0	1.0
108-10-1	4-Methyl-2-pentanone	6.0	U	2.2	6.0	10	10
67-64-1	Acetone	10	U	4.0	10	20	20
71-43-2	Benzene	1.0	U	0.40	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.40	1.0	2.0	2.0
74-97-5	Bromochloromethane	0.60	U	0.30	0.60	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.90	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.60	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.60	U	0.30	0.60	1.0	1.0
108-90-7	Chlorobenzene	0.60	U	0.30	0.60	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	0.60	U	0.30	0.60	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.60	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	1.1		0.30	0.60	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	0.30	U	0.16	0.30	0.60	0.60
124-48-1	Dibromochloromethane	0.60	U	0.30	0.60	1.0	1.0
74-95-3	Dibromomethane	0.60	U	0.22	0.60	1.0	1.0
75-71-8	Dichlorodifluoromethane	1.0	U	0.40	1.0	2.0	2.0
100-41-4	Ethylbenzene	0.60	U	0.30	0.60	1.0	1.0
76-13-1	Freon 113	2.0	U	0.70	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	1.0	U	0.40	1.0	2.0	2.0
98-82-8	Isopropylbenzene	0.60	U	0.30	0.60	1.0	1.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-004

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356208
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 17:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.2	U	0.70	1.2	2.0	2.0
75-09-2	Methylene chloride	1.0	U	0.40	1.0	2.0	2.0
91-20-3	Naphthalene	0.60	U	0.30	0.60	1.0	1.0
104-51-8	n-Butylbenzene	0.60	U	0.29	0.60	1.0	1.0
103-65-1	n-Propylbenzene	0.60	U	0.30	0.60	1.0	1.0
95-47-6	o-Xylene	0.60	U	0.26	0.60	1.0	1.0
99-87-6	p-Isopropyltoluene	0.60	U	0.30	0.60	1.0	1.0
135-98-8	sec-Butylbenzene	1.0	U Z	0.40	1.0	2.0	2.0
100-42-5	Styrene	0.60	U	0.29	0.60	1.0	1.0
98-06-6	tert-Butylbenzene	1.0	U	0.40	1.0	2.0	2.0
127-18-4	Tetrachloroethene	0.60	U	0.27	0.60	1.0	1.0
108-88-3	Toluene	0.74	J	0.21	0.60	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	0.60	U	0.23	0.60	1.0	1.0
79-01-6	Trichloroethene	32		0.30	0.60	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.40	1.0	2.0	2.0
108-05-4	Vinyl acetate	10	U	5.0	10	20	20
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-005

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356225
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	5000.00
Date & Time Analyzed:	11/15/2019 / 12:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	5000	U	2000	5000	10000	10000
71-55-6	1,1,1-Trichloroethane	3000	U	1500	3000	5000	5000
79-34-5	1,1,2,2-Tetrachloroethane	3000	U	1500	3000	5000	5000
79-00-5	1,1,2-Trichloroethane	3000	U	1500	3000	5000	5000
75-34-3	1,1-Dichloroethane	3000	U	1500	3000	5000	5000
75-35-4	1,1-Dichloroethene	5000	U	2000	5000	10000	10000
563-58-6	1,1-Dichloropropene	3000	U	1500	3000	5000	5000
87-61-6	1,2,3-Trichlorobenzene	3000	U	1200	3000	5000	5000
96-18-4	1,2,3-Trichloropropane	3000	U	1500	3000	5000	5000
120-82-1	1,2,4-Trichlorobenzene	3000	U	1400	3000	5000	5000
95-63-6	1,2,4-Trimethylbenzene	3000	U	1500	3000	5000	5000
96-12-8	1,2-Dibromo-3-chloropropane	3000	U	1300	3000	5000	5000
106-93-4	1,2-Dibromoethane	3000	U	1500	3000	5000	5000
95-50-1	1,2-Dichlorobenzene	3000	U	1500	3000	5000	5000
107-06-2	1,2-Dichloroethane	3000	U	1200	3000	5000	5000
78-87-5	1,2-Dichloropropane	3000	U	900	3000	5000	5000
108-67-8	1,3,5-Trimethylbenzene	3000	U	1400	3000	5000	5000
541-73-1	1,3-Dichlorobenzene	3000	U	1300	3000	5000	5000
142-28-9	1,3-Dichloropropane	1500	U	850	1500	3000	3000
106-46-7	1,4-Dichlorobenzene	3000	U	1500	3000	5000	5000
594-20-7	2,2-Dichloropropane	3000	U	1500	3000	5000	5000
78-93-3	2-Butanone	30000	U	13000	30000	50000	50000
95-49-8	2-Chlorotoluene	3000	U	1300	3000	5000	5000
591-78-6	2-Hexanone	30000	U	15000	30000	50000	50000

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-005

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356225
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	5000.00
Date & Time Analyzed:	11/15/2019 / 12:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	3000	U	1500	3000	5000	5000
108-10-1	4-Methyl-2-pentanone	30000	U	11000	30000	50000	50000
67-64-1	Acetone	50000	U	20000	50000	100000	100000
71-43-2	Benzene	5000	U	2000	5000	10000	10000
108-86-1	Bromobenzene	5000	U	2000	5000	10000	10000
74-97-5	Bromochloromethane	3000	U	1500	3000	5000	5000
75-27-4	Bromodichloromethane	3000	U	1500	3000	5000	5000
75-25-2	Bromoform	5000	U	2000	5000	10000	10000
74-83-9	Bromomethane	10000	U	4500	10000	20000	20000
75-15-0	Carbon disulfide	10000	U	3000	10000	20000	20000
56-23-5	Carbon tetrachloride	3000	U	1500	3000	5000	5000
108-90-7	Chlorobenzene	3000	U	1500	3000	5000	5000
75-00-3	Chloroethane	5000	U	2500	5000	10000	10000
67-66-3	Chloroform	3000	U	1500	3000	5000	5000
74-87-3	Chloromethane	5000	U	3000	5000	10000	10000
156-59-2	cis-1,2-Dichloroethene	2500	J	1500	3000	5000	5000
10061-01-5	cis-1,3-Dichloropropene	1500	U	800	1500	3000	3000
124-48-1	Dibromochloromethane	3000	U	1500	3000	5000	5000
74-95-3	Dibromomethane	3000	U	1100	3000	5000	5000
75-71-8	Dichlorodifluoromethane	5000	U	2000	5000	10000	10000
100-41-4	Ethylbenzene	3000	U	1500	3000	5000	5000
76-13-1	Freon 113	10000	U	3500	10000	20000	20000
87-68-3	Hexachlorobutadiene	5000	U	2000	5000	10000	10000
98-82-8	Isopropylbenzene	3000	U	1500	3000	5000	5000

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VOLATILE ORGANICS ANALYSIS

Sample Description

DUP-005

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356225
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	5000.00
Date & Time Analyzed:	11/15/2019 / 12:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	6000	U	3500	6000	10000	10000
75-09-2	Methylene chloride	5000	U	2000	5000	10000	10000
91-20-3	Naphthalene	3000	U	1500	3000	5000	5000
104-51-8	n-Butylbenzene	3000	U Z	1500	3000	5000	5000
103-65-1	n-Propylbenzene	3000	U	1500	3000	5000	5000
95-47-6	o-Xylene	3000	U	1300	3000	5000	5000
99-87-6	p-Isopropyltoluene	3000	U	1500	3000	5000	5000
135-98-8	sec-Butylbenzene	5000	U Z	2000	5000	10000	10000
100-42-5	Styrene	3000	U	1500	3000	5000	5000
98-06-6	tert-Butylbenzene	5000	U	2000	5000	10000	10000
127-18-4	Tetrachloroethene	3000	U	1400	3000	5000	5000
108-88-3	Toluene	3000	U	1100	3000	5000	5000
156-60-5	trans-1,2-Dichloroethene	3000	U	1500	3000	5000	5000
10061-02-6	trans-1,3-Dichloropropene	3000	U	1200	3000	5000	5000
79-01-6	Trichloroethene	140000		1500	3000	5000	5000
75-69-4	Trichlorofluoromethane	5000	U	2000	5000	10000	10000
108-05-4	Vinyl acetate	50000	U	25000	50000	100000	100000
75-01-4	Vinyl chloride	1500	U	700	1500	3000	3000

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VOLATILE ORGANICS ANALYSIS

Sample Description

EB-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356190
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 15:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.40	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.60	U	0.29	0.60	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.30	0.60	1.0	1.0
79-00-5	1,1,2-Trichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-34-3	1,1-Dichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	0.60	U	0.30	0.60	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.23	0.60	1.0	1.0
96-18-4	1,2,3-Trichloropropane	0.60	U	0.30	0.60	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	0.60	U	0.28	0.60	1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	0.60	U	0.29	0.60	1.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U	0.25	0.60	1.0	1.0
106-93-4	1,2-Dibromoethane	0.60	U	0.30	0.60	1.0	1.0
95-50-1	1,2-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
107-06-2	1,2-Dichloroethane	0.60	U	0.24	0.60	1.0	1.0
78-87-5	1,2-Dichloropropane	0.60	U	0.18	0.60	1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	0.60	U	0.27	0.60	1.0	1.0
541-73-1	1,3-Dichlorobenzene	0.60	U	0.26	0.60	1.0	1.0
142-28-9	1,3-Dichloropropane	0.30	U	0.17	0.30	0.60	0.60
106-46-7	1,4-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
594-20-7	2,2-Dichloropropane	0.60	U	0.30	0.60	1.0	1.0
78-93-3	2-Butanone	6.0	U	2.6	6.0	10	10
95-49-8	2-Chlorotoluene	0.60	U	0.25	0.60	1.0	1.0
591-78-6	2-Hexanone	6.0	U	3.0	6.0	10	10

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VOLATILE ORGANICS ANALYSIS

Sample Description

EB-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356190
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 15:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	0.60	U	0.30	0.60	1.0	1.0
108-10-1	4-Methyl-2-pentanone	6.0	U	2.2	6.0	10	10
67-64-1	Acetone	6.3	J	4.0	10	20	20
71-43-2	Benzene	1.0	U	0.40	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.40	1.0	2.0	2.0
74-97-5	Bromochloromethane	0.60	U	0.30	0.60	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.90	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.60	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.60	U	0.30	0.60	1.0	1.0
108-90-7	Chlorobenzene	0.60	U	0.30	0.60	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	0.60	U	0.30	0.60	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.60	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	0.30	U	0.16	0.30	0.60	0.60
124-48-1	Dibromochloromethane	0.60	U	0.30	0.60	1.0	1.0
74-95-3	Dibromomethane	0.60	U	0.22	0.60	1.0	1.0
75-71-8	Dichlorodifluoromethane	1.0	U	0.40	1.0	2.0	2.0
100-41-4	Ethylbenzene	0.60	U	0.30	0.60	1.0	1.0
76-13-1	Freon 113	2.0	U	0.70	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	1.0	U	0.40	1.0	2.0	2.0
98-82-8	Isopropylbenzene	0.60	U	0.30	0.60	1.0	1.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

EB-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356190
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 15:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.2	U	0.70	1.2	2.0	2.0
75-09-2	Methylene chloride	1.0	U	0.40	1.0	2.0	2.0
91-20-3	Naphthalene	0.60	U	0.30	0.60	1.0	1.0
104-51-8	n-Butylbenzene	0.60	U	0.29	0.60	1.0	1.0
103-65-1	n-Propylbenzene	0.60	U	0.30	0.60	1.0	1.0
95-47-6	o-Xylene	0.60	U	0.26	0.60	1.0	1.0
99-87-6	p-Isopropyltoluene	0.60	U	0.30	0.60	1.0	1.0
135-98-8	sec-Butylbenzene	1.0	U Z	0.40	1.0	2.0	2.0
100-42-5	Styrene	0.60	U	0.29	0.60	1.0	1.0
98-06-6	tert-Butylbenzene	1.0	U	0.40	1.0	2.0	2.0
127-18-4	Tetrachloroethene	0.60	U	0.27	0.60	1.0	1.0
108-88-3	Toluene	0.60	U	0.21	0.60	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	0.60	U	0.23	0.60	1.0	1.0
79-01-6	Trichloroethene	0.60	U	0.30	0.60	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.40	1.0	2.0	2.0
108-05-4	Vinyl acetate	10	U	5.0	10	20	20
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60

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VOLATILE ORGANICS ANALYSIS

Sample Description

EB-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356220
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 15:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.40	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.60	U	0.29	0.60	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.30	0.60	1.0	1.0
79-00-5	1,1,2-Trichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-34-3	1,1-Dichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	0.60	U	0.30	0.60	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.23	0.60	1.0	1.0
96-18-4	1,2,3-Trichloropropane	0.60	U	0.30	0.60	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	0.60	U	0.28	0.60	1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	0.60	U	0.29	0.60	1.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U	0.25	0.60	1.0	1.0
106-93-4	1,2-Dibromoethane	0.60	U	0.30	0.60	1.0	1.0
95-50-1	1,2-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
107-06-2	1,2-Dichloroethane	0.60	U	0.24	0.60	1.0	1.0
78-87-5	1,2-Dichloropropane	0.60	U	0.18	0.60	1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	0.60	U	0.27	0.60	1.0	1.0
541-73-1	1,3-Dichlorobenzene	0.60	U	0.26	0.60	1.0	1.0
142-28-9	1,3-Dichloropropane	0.30	U	0.17	0.30	0.60	0.60
106-46-7	1,4-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
594-20-7	2,2-Dichloropropane	0.60	U	0.30	0.60	1.0	1.0
78-93-3	2-Butanone	6.0	U	2.6	6.0	10	10
95-49-8	2-Chlorotoluene	0.60	U	0.25	0.60	1.0	1.0
591-78-6	2-Hexanone	6.0	U	3.0	6.0	10	10

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VOLATILE ORGANICS ANALYSIS

Sample Description

EB-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356220
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 15:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	0.60	U	0.30	0.60	1.0	1.0
108-10-1	4-Methyl-2-pentanone	6.0	U	2.2	6.0	10	10
67-64-1	Acetone	8.3	J	4.0	10	20	20
71-43-2	Benzene	1.0	U	0.40	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.40	1.0	2.0	2.0
74-97-5	Bromochloromethane	0.60	U	0.30	0.60	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.90	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.60	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.60	U	0.30	0.60	1.0	1.0
108-90-7	Chlorobenzene	0.60	U	0.30	0.60	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	0.60	U	0.30	0.60	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.60	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	0.30	U	0.16	0.30	0.60	0.60
124-48-1	Dibromochloromethane	0.60	U	0.30	0.60	1.0	1.0
74-95-3	Dibromomethane	0.60	U	0.22	0.60	1.0	1.0
75-71-8	Dichlorodifluoromethane	1.0	U	0.40	1.0	2.0	2.0
100-41-4	Ethylbenzene	0.60	U	0.30	0.60	1.0	1.0
76-13-1	Freon 113	2.0	U	0.70	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	1.0	U	0.40	1.0	2.0	2.0
98-82-8	Isopropylbenzene	0.60	U	0.30	0.60	1.0	1.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

EB-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356220
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 15:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.2	U	0.70	1.2	2.0	2.0
75-09-2	Methylene chloride	1.0	U	0.40	1.0	2.0	2.0
91-20-3	Naphthalene	0.60	U	0.30	0.60	1.0	1.0
104-51-8	n-Butylbenzene	0.60	U	0.29	0.60	1.0	1.0
103-65-1	n-Propylbenzene	0.60	U	0.30	0.60	1.0	1.0
95-47-6	o-Xylene	0.60	U	0.26	0.60	1.0	1.0
99-87-6	p-Isopropyltoluene	0.60	U	0.30	0.60	1.0	1.0
135-98-8	sec-Butylbenzene	1.0	U Z	0.40	1.0	2.0	2.0
100-42-5	Styrene	0.60	U	0.29	0.60	1.0	1.0
98-06-6	tert-Butylbenzene	1.0	U	0.40	1.0	2.0	2.0
127-18-4	Tetrachloroethene	0.60	U	0.27	0.60	1.0	1.0
108-88-3	Toluene	0.60	U	0.21	0.60	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	0.60	U	0.23	0.60	1.0	1.0
79-01-6	Trichloroethene	0.60	U	0.30	0.60	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.40	1.0	2.0	2.0
108-05-4	Vinyl acetate	10	U	5.0	10	20	20
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60

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VOLATILE ORGANICS ANALYSIS

Sample Description

EB-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356223
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 16:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.40	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.60	U	0.29	0.60	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.30	0.60	1.0	1.0
79-00-5	1,1,2-Trichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-34-3	1,1-Dichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	0.60	U	0.30	0.60	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.23	0.60	1.0	1.0
96-18-4	1,2,3-Trichloropropane	0.60	U	0.30	0.60	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	0.60	U	0.28	0.60	1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	0.60	U	0.29	0.60	1.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U	0.25	0.60	1.0	1.0
106-93-4	1,2-Dibromoethane	0.60	U	0.30	0.60	1.0	1.0
95-50-1	1,2-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
107-06-2	1,2-Dichloroethane	0.60	U	0.24	0.60	1.0	1.0
78-87-5	1,2-Dichloropropane	0.60	U	0.18	0.60	1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	0.60	U	0.27	0.60	1.0	1.0
541-73-1	1,3-Dichlorobenzene	0.60	U	0.26	0.60	1.0	1.0
142-28-9	1,3-Dichloropropane	0.30	U	0.17	0.30	0.60	0.60
106-46-7	1,4-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
594-20-7	2,2-Dichloropropane	0.60	U	0.30	0.60	1.0	1.0
78-93-3	2-Butanone	6.0	U	2.6	6.0	10	10
95-49-8	2-Chlorotoluene	0.60	U	0.25	0.60	1.0	1.0
591-78-6	2-Hexanone	6.0	U	3.0	6.0	10	10

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VOLATILE ORGANICS ANALYSIS

Sample Description

EB-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356223
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 16:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	0.60	U	0.30	0.60	1.0	1.0
108-10-1	4-Methyl-2-pentanone	6.0	U	2.2	6.0	10	10
67-64-1	Acetone	5.8	J	4.0	10	20	20
71-43-2	Benzene	1.0	U	0.40	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.40	1.0	2.0	2.0
74-97-5	Bromochloromethane	0.60	U	0.30	0.60	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.90	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.60	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.60	U	0.30	0.60	1.0	1.0
108-90-7	Chlorobenzene	0.60	U	0.30	0.60	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	0.60	U	0.30	0.60	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.60	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	0.30	U	0.16	0.30	0.60	0.60
124-48-1	Dibromochloromethane	0.60	U	0.30	0.60	1.0	1.0
74-95-3	Dibromomethane	0.60	U	0.22	0.60	1.0	1.0
75-71-8	Dichlorodifluoromethane	1.0	U	0.40	1.0	2.0	2.0
100-41-4	Ethylbenzene	0.60	U	0.30	0.60	1.0	1.0
76-13-1	Freon 113	2.0	U	0.70	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	1.0	U	0.40	1.0	2.0	2.0
98-82-8	Isopropylbenzene	0.60	U	0.30	0.60	1.0	1.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

EB-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356223
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 16:14	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.2	U	0.70	1.2	2.0	2.0
75-09-2	Methylene chloride	1.0	U	0.40	1.0	2.0	2.0
91-20-3	Naphthalene	0.60	U	0.30	0.60	1.0	1.0
104-51-8	n-Butylbenzene	0.60	U	0.29	0.60	1.0	1.0
103-65-1	n-Propylbenzene	0.60	U	0.30	0.60	1.0	1.0
95-47-6	o-Xylene	0.60	U	0.26	0.60	1.0	1.0
99-87-6	p-Isopropyltoluene	0.60	U	0.30	0.60	1.0	1.0
135-98-8	sec-Butylbenzene	1.0	U Z	0.40	1.0	2.0	2.0
100-42-5	Styrene	0.60	U	0.29	0.60	1.0	1.0
98-06-6	tert-Butylbenzene	1.0	U	0.40	1.0	2.0	2.0
127-18-4	Tetrachloroethene	0.60	U	0.27	0.60	1.0	1.0
108-88-3	Toluene	0.60	U	0.21	0.60	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	0.60	U	0.23	0.60	1.0	1.0
79-01-6	Trichloroethene	0.60	U	0.30	0.60	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.40	1.0	2.0	2.0
108-05-4	Vinyl acetate	10	U	5.0	10	20	20
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TRIP BLANK	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356164
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 14:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.40	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.60	U	0.29	0.60	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.30	0.60	1.0	1.0
79-00-5	1,1,2-Trichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-34-3	1,1-Dichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	0.60	U	0.30	0.60	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.23	0.60	1.0	1.0
96-18-4	1,2,3-Trichloropropane	0.60	U	0.30	0.60	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	0.60	U	0.28	0.60	1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	0.60	U	0.29	0.60	1.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U	0.25	0.60	1.0	1.0
106-93-4	1,2-Dibromoethane	0.60	U	0.30	0.60	1.0	1.0
95-50-1	1,2-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
107-06-2	1,2-Dichloroethane	0.60	U	0.24	0.60	1.0	1.0
78-87-5	1,2-Dichloropropane	0.60	U	0.18	0.60	1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	0.60	U	0.27	0.60	1.0	1.0
541-73-1	1,3-Dichlorobenzene	0.60	U	0.26	0.60	1.0	1.0
142-28-9	1,3-Dichloropropane	0.30	U	0.17	0.30	0.60	0.60
106-46-7	1,4-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
594-20-7	2,2-Dichloropropane	0.60	U	0.30	0.60	1.0	1.0
78-93-3	2-Butanone	6.0	U	2.6	6.0	10	10
95-49-8	2-Chlorotoluene	0.60	U	0.25	0.60	1.0	1.0
591-78-6	2-Hexanone	6.0	U	3.0	6.0	10	10

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TRIP BLANK	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356164
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 14:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	0.60	U	0.30	0.60	1.0	1.0
108-10-1	4-Methyl-2-pentanone	6.0	U	2.2	6.0	10	10
67-64-1	Acetone	4.7	J	4.0	10	20	20
71-43-2	Benzene	1.0	U	0.40	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.40	1.0	2.0	2.0
74-97-5	Bromochloromethane	0.60	U	0.30	0.60	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.90	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.60	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.60	U	0.30	0.60	1.0	1.0
108-90-7	Chlorobenzene	0.60	U	0.30	0.60	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	0.60	U	0.30	0.60	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.60	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	0.30	U	0.16	0.30	0.60	0.60
124-48-1	Dibromochloromethane	0.60	U	0.30	0.60	1.0	1.0
74-95-3	Dibromomethane	0.60	U	0.22	0.60	1.0	1.0
75-71-8	Dichlorodifluoromethane	1.0	U	0.40	1.0	2.0	2.0
100-41-4	Ethylbenzene	0.60	U	0.30	0.60	1.0	1.0
76-13-1	Freon 113	2.0	U	0.70	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	1.0	U	0.40	1.0	2.0	2.0
98-82-8	Isopropylbenzene	0.60	U	0.30	0.60	1.0	1.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TRIP BLANK	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356164
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166500	Dilution Factor:	1.00
Date & Time Analyzed:	11/14/2019 / 14:44	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.2	U	0.70	1.2	2.0	2.0
75-09-2	Methylene chloride	1.0	U	0.40	1.0	2.0	2.0
91-20-3	Naphthalene	0.60	U	0.30	0.60	1.0	1.0
104-51-8	n-Butylbenzene	0.60	U	0.29	0.60	1.0	1.0
103-65-1	n-Propylbenzene	0.60	U	0.30	0.60	1.0	1.0
95-47-6	o-Xylene	0.60	U	0.26	0.60	1.0	1.0
99-87-6	p-Isopropyltoluene	0.36	J B	0.30	0.60	1.0	1.0
135-98-8	sec-Butylbenzene	1.0	U Z	0.40	1.0	2.0	2.0
100-42-5	Styrene	0.60	U	0.29	0.60	1.0	1.0
98-06-6	tert-Butylbenzene	1.0	U	0.40	1.0	2.0	2.0
127-18-4	Tetrachloroethene	0.60	U	0.27	0.60	1.0	1.0
108-88-3	Toluene	0.60	U	0.21	0.60	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	0.60	U	0.23	0.60	1.0	1.0
79-01-6	Trichloroethene	0.60	U	0.30	0.60	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.40	1.0	2.0	2.0
108-05-4	Vinyl acetate	10	U	5.0	10	20	20
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TRIP BLANK	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356229
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	1.00
Date & Time Analyzed:	11/15/2019 / 11:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.40	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.60	U	0.29	0.60	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.30	0.60	1.0	1.0
79-00-5	1,1,2-Trichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-34-3	1,1-Dichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	0.60	U	0.30	0.60	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.23	0.60	1.0	1.0
96-18-4	1,2,3-Trichloropropane	0.60	U	0.30	0.60	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	0.60	U	0.28	0.60	1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	0.60	U	0.29	0.60	1.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U	0.25	0.60	1.0	1.0
106-93-4	1,2-Dibromoethane	0.60	U	0.30	0.60	1.0	1.0
95-50-1	1,2-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
107-06-2	1,2-Dichloroethane	0.60	U	0.24	0.60	1.0	1.0
78-87-5	1,2-Dichloropropane	0.60	U	0.18	0.60	1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	0.60	U	0.27	0.60	1.0	1.0
541-73-1	1,3-Dichlorobenzene	0.60	U	0.26	0.60	1.0	1.0
142-28-9	1,3-Dichloropropane	0.30	U	0.17	0.30	0.60	0.60
106-46-7	1,4-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
594-20-7	2,2-Dichloropropane	0.60	U	0.30	0.60	1.0	1.0
78-93-3	2-Butanone	6.0	U	2.6	6.0	10	10
95-49-8	2-Chlorotoluene	0.60	U	0.25	0.60	1.0	1.0
591-78-6	2-Hexanone	6.0	U	3.0	6.0	10	10

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TRIP BLANK	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356229
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	1.00
Date & Time Analyzed:	11/15/2019 / 11:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	0.60	U	0.30	0.60	1.0	1.0
108-10-1	4-Methyl-2-pentanone	6.0	U	2.2	6.0	10	10
67-64-1	Acetone	4.3	J	4.0	10	20	20
71-43-2	Benzene	1.0	U	0.40	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.40	1.0	2.0	2.0
74-97-5	Bromochloromethane	0.60	U	0.30	0.60	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.90	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.60	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.60	U	0.30	0.60	1.0	1.0
108-90-7	Chlorobenzene	0.60	U	0.30	0.60	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	0.60	U	0.30	0.60	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.60	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	0.30	U	0.16	0.30	0.60	0.60
124-48-1	Dibromochloromethane	0.60	U	0.30	0.60	1.0	1.0
74-95-3	Dibromomethane	0.60	U	0.22	0.60	1.0	1.0
75-71-8	Dichlorodifluoromethane	1.0	U	0.40	1.0	2.0	2.0
100-41-4	Ethylbenzene	0.60	U	0.30	0.60	1.0	1.0
76-13-1	Freon 113	2.0	U	0.70	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	1.0	U	0.40	1.0	2.0	2.0
98-82-8	Isopropylbenzene	0.60	U	0.30	0.60	1.0	1.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TRIP BLANK	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356229
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	1.00
Date & Time Analyzed:	11/15/2019 / 11:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.2	U	0.70	1.2	2.0	2.0
75-09-2	Methylene chloride	1.0	U	0.40	1.0	2.0	2.0
91-20-3	Naphthalene	0.60	U	0.30	0.60	1.0	1.0
104-51-8	n-Butylbenzene	0.60	U Z	0.29	0.60	1.0	1.0
103-65-1	n-Propylbenzene	0.60	U	0.30	0.60	1.0	1.0
95-47-6	o-Xylene	0.60	U	0.26	0.60	1.0	1.0
99-87-6	p-Isopropyltoluene	0.60	U	0.30	0.60	1.0	1.0
135-98-8	sec-Butylbenzene	1.0	U Z	0.40	1.0	2.0	2.0
100-42-5	Styrene	0.60	U	0.29	0.60	1.0	1.0
98-06-6	tert-Butylbenzene	1.0	U	0.40	1.0	2.0	2.0
127-18-4	Tetrachloroethene	0.60	U	0.27	0.60	1.0	1.0
108-88-3	Toluene	0.60	U	0.21	0.60	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	0.60	U	0.23	0.60	1.0	1.0
79-01-6	Trichloroethene	0.60	U	0.30	0.60	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.40	1.0	2.0	2.0
108-05-4	Vinyl acetate	10	U	5.0	10	20	20
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TRIP BLANK	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356230
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	1.00
Date & Time Analyzed:	11/15/2019 / 11:42	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.40	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.60	U	0.29	0.60	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.30	0.60	1.0	1.0
79-00-5	1,1,2-Trichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-34-3	1,1-Dichloroethane	0.60	U	0.30	0.60	1.0	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	0.60	U	0.30	0.60	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.23	0.60	1.0	1.0
96-18-4	1,2,3-Trichloropropane	0.60	U	0.30	0.60	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	0.60	U	0.28	0.60	1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	0.60	U	0.29	0.60	1.0	1.0
96-12-8	1,2-Dibromo-3-chloropropane	0.60	U	0.25	0.60	1.0	1.0
106-93-4	1,2-Dibromoethane	0.60	U	0.30	0.60	1.0	1.0
95-50-1	1,2-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
107-06-2	1,2-Dichloroethane	0.60	U	0.24	0.60	1.0	1.0
78-87-5	1,2-Dichloropropane	0.60	U	0.18	0.60	1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	0.60	U	0.27	0.60	1.0	1.0
541-73-1	1,3-Dichlorobenzene	0.60	U	0.26	0.60	1.0	1.0
142-28-9	1,3-Dichloropropane	0.30	U	0.17	0.30	0.60	0.60
106-46-7	1,4-Dichlorobenzene	0.60	U	0.30	0.60	1.0	1.0
594-20-7	2,2-Dichloropropane	0.60	U	0.30	0.60	1.0	1.0
78-93-3	2-Butanone	6.0	U	2.6	6.0	10	10
95-49-8	2-Chlorotoluene	0.60	U	0.25	0.60	1.0	1.0
591-78-6	2-Hexanone	6.0	U	3.0	6.0	10	10

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TRIP BLANK	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356230
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	1.00
Date & Time Analyzed:	11/15/2019 / 11:42	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-43-4	4-Chlorotoluene	0.60	U	0.30	0.60	1.0	1.0
108-10-1	4-Methyl-2-pentanone	6.0	U	2.2	6.0	10	10
67-64-1	Acetone	10	U	4.0	10	20	20
71-43-2	Benzene	1.0	U	0.40	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.40	1.0	2.0	2.0
74-97-5	Bromochloromethane	0.60	U	0.30	0.60	1.0	1.0
75-27-4	Bromodichloromethane	0.60	U	0.29	0.60	1.0	1.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.90	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.60	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.60	U	0.30	0.60	1.0	1.0
108-90-7	Chlorobenzene	0.60	U	0.30	0.60	1.0	1.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	0.60	U	0.30	0.60	1.0	1.0
74-87-3	Chloromethane	1.0	U	0.60	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	0.30	U	0.16	0.30	0.60	0.60
124-48-1	Dibromochloromethane	0.60	U	0.30	0.60	1.0	1.0
74-95-3	Dibromomethane	0.60	U	0.22	0.60	1.0	1.0
75-71-8	Dichlorodifluoromethane	1.0	U	0.40	1.0	2.0	2.0
100-41-4	Ethylbenzene	0.60	U	0.30	0.60	1.0	1.0
76-13-1	Freon 113	2.0	U	0.70	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	1.0	U	0.40	1.0	2.0	2.0
98-82-8	Isopropylbenzene	0.60	U	0.30	0.60	1.0	1.0

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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

TB-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TRIP BLANK	SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	356230
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	166501	Dilution Factor:	1.00
Date & Time Analyzed:	11/15/2019 / 11:42	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
179601-23-1	m & p-Xylene	1.2	U	0.70	1.2	2.0	2.0
75-09-2	Methylene chloride	0.64	J	0.40	1.0	2.0	2.0
91-20-3	Naphthalene	0.60	U	0.30	0.60	1.0	1.0
104-51-8	n-Butylbenzene	0.60	U Z	0.29	0.60	1.0	1.0
103-65-1	n-Propylbenzene	0.60	U	0.30	0.60	1.0	1.0
95-47-6	o-Xylene	0.60	U	0.26	0.60	1.0	1.0
99-87-6	p-Isopropyltoluene	0.60	U	0.30	0.60	1.0	1.0
135-98-8	sec-Butylbenzene	1.0	U Z	0.40	1.0	2.0	2.0
100-42-5	Styrene	0.60	U	0.29	0.60	1.0	1.0
98-06-6	tert-Butylbenzene	1.0	U	0.40	1.0	2.0	2.0
127-18-4	Tetrachloroethene	0.60	U	0.27	0.60	1.0	1.0
108-88-3	Toluene	0.60	U	0.21	0.60	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.60	U	0.30	0.60	1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	0.60	U	0.23	0.60	1.0	1.0
79-01-6	Trichloroethene	0.60	U	0.30	0.60	1.0	1.0
75-69-4	Trichlorofluoromethane	1.0	U	0.40	1.0	2.0	2.0
108-05-4	Vinyl acetate	10	U	5.0	10	20	20
75-01-4	Vinyl chloride	0.30	U	0.14	0.30	0.60	0.60

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Sample Description

METHOD BLANK

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	356997
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/12/2019	18:17	0.3	U	0.3	2.0	***1.0***
71-55-6	1,1,1-Trichloroethane	11/12/2019	18:17	0.3	U	0.3	2.0	***1.0***
79-34-5	1,1,2,2-Tetrachloroethane	11/12/2019	18:17	0.5	U	0.5	2.0	***1.0***
79-00-5	1,1,2-Trichloroethane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
75-34-3	1,1-Dichloroethane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
75-35-4	1,1-Dichloroethene	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
563-58-6	1,1-Dichloropropene	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
87-61-6	1,2,3-Trichlorobenzene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
96-18-4	1,2,3-Trichloropropane	11/12/2019	18:17	0.5	U	0.5	2.0	***1.0***
120-82-1	1,2,4-Trichlorobenzene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
95-63-6	1,2,4-Trimethylbenzene	11/12/2019	18:17	0.8	U	0.8	4.0	***2.0***
96-12-8	1,2-Dibromo-3-chloropropane	11/12/2019	18:17	1.3	U	1.3	4.0	***2.0***
106-93-4	1,2-Dibromoethane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
95-50-1	1,2-Dichlorobenzene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
107-06-2	1,2-Dichloroethane	11/12/2019	18:17	0.5	U	0.5	2.0	***1.0***
78-87-5	1,2-Dichloropropane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
108-67-8	1,3,5-Trimethylbenzene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
541-73-1	1,3-Dichlorobenzene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
142-28-9	1,3-Dichloropropane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
106-46-7	1,4-Dichlorobenzene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
594-20-7	2,2-Dichloropropane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
78-93-3	2-Butanone	11/12/2019	18:17	10	U	10	40	***20***
95-49-8	2-Chlorotoluene	11/12/2019	18:17	1.0	U	1.0	4.0	***2.0***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	356997
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
591-78-6	2-Hexanone	11/12/2019	18:17	11	U	11	40	***20***
106-43-4	4-Chlorotoluene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
108-10-1	4-Methyl-2-pentanone	11/12/2019	18:17	10	U	10	40	***20***
67-64-1	Acetone	11/12/2019	18:17	10	U	10	40	***20***
71-43-2	Benzene	11/12/2019	18:17	0.3	U	0.3	2.0	***1.0***
108-86-1	Bromobenzene	11/12/2019	18:17	0.5	U	0.5	2.0	***1.0***
74-97-5	Bromochloromethane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
75-27-4	Bromodichloromethane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
75-25-2	Bromoform	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
74-83-9	Bromomethane	11/12/2019	18:17	0.7	U	0.7	4.0	***2.0***
75-15-0	Carbon disulfide	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
56-23-5	Carbon tetrachloride	11/12/2019	18:17	0.3	U	0.3	2.0	***1.0***
108-90-7	Chlorobenzene	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
75-00-3	Chloroethane	11/12/2019	18:17	0.5	U	0.5	2.0	***1.0***
67-66-3	Chloroform	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
74-87-3	Chloromethane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
156-59-2	cis-1,2-Dichloroethene	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
10061-01-5	cis-1,3-Dichloropropene	11/12/2019	18:17	0.3	U	0.3	2.0	***1.0***
124-48-1	Dibromochloromethane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
74-95-3	Dibromomethane	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
75-71-8	Dichlorodifluoromethane	11/12/2019	18:17	1.0	U	1.0	4.0	***2.0***
100-41-4	Ethylbenzene	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
76-13-1	Freon 113	11/12/2019	18:17	1.0	U	1.0	4.0	***2.0***

CT LABORATORIES
delivering more than data from your environmental analyses

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	356997
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74482
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-68-3	Hexachlorobutadiene	11/12/2019	18:17	1.0	U	1.0	4.0	***2.0***
98-82-8	Isopropylbenzene	11/12/2019	18:17	0.3	U	0.3	2.0	***1.0***
179601-23-1	m & p-Xylene	11/12/2019	18:17	0.7	U	0.7	4.0	***2.0***
75-09-2	Methylene chloride	11/12/2019	18:17	1.7	U	1.7	4.0	***2.0***
91-20-3	Naphthalene	11/12/2019	18:17	1.0	U	1.0	4.0	***2.0***
104-51-8	n-Butylbenzene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
103-65-1	n-Propylbenzene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
95-47-6	o-Xylene	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
99-87-6	p-Isopropyltoluene	11/12/2019	18:17	1.0	U	1.0	4.0	***2.0***
135-98-8	sec-Butylbenzene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
100-42-5	Styrene	11/12/2019	18:17	0.3	U	0.3	2.0	***1.0***
98-06-6	tert-Butylbenzene	11/12/2019	18:17	0.9	U	0.9	4.0	***2.0***
127-18-4	Tetrachloroethene	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
108-88-3	Toluene	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
156-60-5	trans-1,2-Dichloroethene	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
10061-02-6	trans-1,3-Dichloropropene	11/12/2019	18:17	0.4	U	0.4	2.0	***1.0***
79-01-6	Trichloroethene	11/12/2019	18:17	0.3	U	0.3	2.0	***1.0***
75-69-4	Trichlorofluoromethane	11/12/2019	18:17	0.5	U	0.5	2.0	***1.0***
108-05-4	Vinyl acetate	11/12/2019	18:17	12	U	12	40	***20***
75-01-4	Vinyl chloride	11/12/2019	18:17	0.5	U	0.5	2.0	***1.0***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	357002
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/13/2019	09:09	0.3	U	0.3	2.0	***1.0***
71-55-6	1,1,1-Trichloroethane	11/13/2019	09:09	0.3	U	0.3	2.0	***1.0***
79-34-5	1,1,2,2-Tetrachloroethane	11/13/2019	09:09	0.5	U	0.5	2.0	***1.0***
79-00-5	1,1,2-Trichloroethane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
75-34-3	1,1-Dichloroethane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
75-35-4	1,1-Dichloroethene	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
563-58-6	1,1-Dichloropropene	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
87-61-6	1,2,3-Trichlorobenzene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
96-18-4	1,2,3-Trichloropropane	11/13/2019	09:09	0.5	U	0.5	2.0	***1.0***
120-82-1	1,2,4-Trichlorobenzene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
95-63-6	1,2,4-Trimethylbenzene	11/13/2019	09:09	0.8	U	0.8	4.0	***2.0***
96-12-8	1,2-Dibromo-3-chloropropane	11/13/2019	09:09	1.3	U	1.3	4.0	***2.0***
106-93-4	1,2-Dibromoethane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
95-50-1	1,2-Dichlorobenzene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
107-06-2	1,2-Dichloroethane	11/13/2019	09:09	0.5	U	0.5	2.0	***1.0***
78-87-5	1,2-Dichloropropane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
108-67-8	1,3,5-Trimethylbenzene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
541-73-1	1,3-Dichlorobenzene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
142-28-9	1,3-Dichloropropane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
106-46-7	1,4-Dichlorobenzene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
594-20-7	2,2-Dichloropropane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
78-93-3	2-Butanone	11/13/2019	09:09	10	U	10	40	***20***
95-49-8	2-Chlorotoluene	11/13/2019	09:09	1.0	U	1.0	4.0	***2.0***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	357002
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
591-78-6	2-Hexanone	11/13/2019	09:09	11	U	11	40	***20***
106-43-4	4-Chlorotoluene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
108-10-1	4-Methyl-2-pentanone	11/13/2019	09:09	10	U	10	40	***20***
67-64-1	Acetone	11/13/2019	09:09	10	U	10	40	***20***
71-43-2	Benzene	11/13/2019	09:09	0.3	U	0.3	2.0	***1.0***
108-86-1	Bromobenzene	11/13/2019	09:09	0.5	U	0.5	2.0	***1.0***
74-97-5	Bromochloromethane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
75-27-4	Bromodichloromethane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
75-25-2	Bromoform	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
74-83-9	Bromomethane	11/13/2019	09:09	0.7	U	0.7	4.0	***2.0***
75-15-0	Carbon disulfide	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
56-23-5	Carbon tetrachloride	11/13/2019	09:09	0.3	U	0.3	2.0	***1.0***
108-90-7	Chlorobenzene	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
75-00-3	Chloroethane	11/13/2019	09:09	0.5	U	0.5	2.0	***1.0***
67-66-3	Chloroform	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
74-87-3	Chloromethane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
156-59-2	cis-1,2-Dichloroethene	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
10061-01-5	cis-1,3-Dichloropropene	11/13/2019	09:09	0.3	U	0.3	2.0	***1.0***
124-48-1	Dibromochloromethane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
74-95-3	Dibromomethane	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
75-71-8	Dichlorodifluoromethane	11/13/2019	09:09	1.0	U	1.0	4.0	***2.0***
100-41-4	Ethylbenzene	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
76-13-1	Freon 113	11/13/2019	09:09	1.0	U	1.0	4.0	***2.0***

CT LABORATORIES
delivering more than data from your environmental analyses

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	357002
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	11/12/2019 / 10:40
Analytical Method:	EPA 8260C	Analytical Prep Batch #	74483
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-68-3	Hexachlorobutadiene	11/13/2019	09:09	1.0	U	1.0	4.0	***2.0***
98-82-8	Isopropylbenzene	11/13/2019	09:09	0.3	U	0.3	2.0	***1.0***
179601-23-1	m & p-Xylene	11/13/2019	09:09	0.7	U	0.7	4.0	***2.0***
75-09-2	Methylene chloride	11/13/2019	09:09	1.7	U	1.7	4.0	***2.0***
91-20-3	Naphthalene	11/13/2019	09:09	1.0	U	1.0	4.0	***2.0***
104-51-8	n-Butylbenzene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
103-65-1	n-Propylbenzene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
95-47-6	o-Xylene	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
99-87-6	p-Isopropyltoluene	11/13/2019	09:09	1.0	U	1.0	4.0	***2.0***
135-98-8	sec-Butylbenzene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
100-42-5	Styrene	11/13/2019	09:09	0.3	U	0.3	2.0	***1.0***
98-06-6	tert-Butylbenzene	11/13/2019	09:09	0.9	U	0.9	4.0	***2.0***
127-18-4	Tetrachloroethene	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
108-88-3	Toluene	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
156-60-5	trans-1,2-Dichloroethene	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
10061-02-6	trans-1,3-Dichloropropene	11/13/2019	09:09	0.4	U	0.4	2.0	***1.0***
79-01-6	Trichloroethene	11/13/2019	09:09	0.3	U	0.3	2.0	***1.0***
75-69-4	Trichlorofluoromethane	11/13/2019	09:09	0.5	U	0.5	2.0	***1.0***
108-05-4	Vinyl acetate	11/13/2019	09:09	12	U	12	40	***20***
75-01-4	Vinyl chloride	11/13/2019	09:09	0.5	U	0.5	2.0	***1.0***

CT LABORATORIES
delivering more than data from your environmental analyses

1A-2

VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	358374
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166500	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/14/2019	14:14	0.4	U	0.4	2.0	***1.0***
71-55-6	1,1,1-Trichloroethane	11/14/2019	14:14	0.29	U	0.29	1.00	***0.50***
79-34-5	1,1,2,2-Tetrachloroethane	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
79-00-5	1,1,2-Trichloroethane	11/14/2019	14:14	0.30	U	0.30	1.00	***0.50***
75-34-3	1,1-Dichloroethane	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
75-35-4	1,1-Dichloroethene	11/14/2019	14:14	0.4	U	0.4	2.0	***1.0***
563-58-6	1,1-Dichloropropene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
87-61-6	1,2,3-Trichlorobenzene	11/14/2019	14:14	0.23	U	0.23	1.00	***0.50***
96-18-4	1,2,3-Trichloropropane	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
120-82-1	1,2,4-Trichlorobenzene	11/14/2019	14:14	0.28	U	0.28	1.00	***0.50***
95-63-6	1,2,4-Trimethylbenzene	11/14/2019	14:14	0.29	U	0.29	1.00	***0.50***
96-12-8	1,2-Dibromo-3-chloropropane	11/14/2019	14:14	0.25	U	0.25	1.00	***0.50***
106-93-4	1,2-Dibromoethane	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
95-50-1	1,2-Dichlorobenzene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
107-06-2	1,2-Dichloroethane	11/14/2019	14:14	0.24	U	0.24	1.00	***0.50***
78-87-5	1,2-Dichloropropane	11/14/2019	14:14	0.18	U	0.18	1.00	***0.50***
108-67-8	1,3,5-Trimethylbenzene	11/14/2019	14:14	0.27	U	0.27	1.00	***0.50***
541-73-1	1,3-Dichlorobenzene	11/14/2019	14:14	0.26	U	0.26	1.00	***0.50***
142-28-9	1,3-Dichloropropane	11/14/2019	14:14	0.17	U	0.17	0.60	***0.30***
106-46-7	1,4-Dichlorobenzene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
594-20-7	2,2-Dichloropropane	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
78-93-3	2-Butanone	11/14/2019	14:14	2.6	U	2.6	10.0	***5.0***
95-49-8	2-Chlorotoluene	11/14/2019	14:14	0.25	U	0.25	1.00	***0.50***

CT LABORATORIES
delivering more than data from your environmental analyses

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	358374
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166500	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
591-78-6	2-Hexanone	11/14/2019	14:14	3	U	3	10	***5***
106-43-4	4-Chlorotoluene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
108-10-1	4-Methyl-2-pentanone	11/14/2019	14:14	2.2	U	2.2	10.0	***5.0***
67-64-1	Acetone	11/14/2019	14:14	4	U	4	20	***10***
71-43-2	Benzene	11/14/2019	14:14	0.4	U	0.4	2.0	***1.0***
108-86-1	Bromobenzene	11/14/2019	14:14	0.4	U	0.4	2.0	***1.0***
74-97-5	Bromochloromethane	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
75-27-4	Bromodichloromethane	11/14/2019	14:14	0.29	U	0.29	1.00	***0.50***
75-25-2	Bromoform	11/14/2019	14:14	0.4	U	0.4	2.0	***1.0***
74-83-9	Bromomethane	11/14/2019	14:14	0.9	U	0.9	4.0	***2.0***
75-15-0	Carbon disulfide	11/14/2019	14:14	0.6	U	0.6	4.0	***2.0***
56-23-5	Carbon tetrachloride	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
108-90-7	Chlorobenzene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
75-00-3	Chloroethane	11/14/2019	14:14	0.5	U	0.5	2.0	***1.0***
67-66-3	Chloroform	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
74-87-3	Chloromethane	11/14/2019	14:14	0.6	U	0.6	2.0	***1.0***
156-59-2	cis-1,2-Dichloroethene	11/14/2019	14:14	0.3	U	0.3	1.00	***0.5***
10061-01-5	cis-1,3-Dichloropropene	11/14/2019	14:14	0.16	U	0.16	0.60	***0.30***
124-48-1	Dibromochloromethane	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
74-95-3	Dibromomethane	11/14/2019	14:14	0.22	U	0.22	1.00	***0.50***
75-71-8	Dichlorodifluoromethane	11/14/2019	14:14	0.4	U	0.4	2.0	***1.0***
100-41-4	Ethylbenzene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
76-13-1	Freon 113	11/14/2019	14:14	0.7	U	0.7	4.0	***2.0***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	358374
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166500	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-68-3	Hexachlorobutadiene	11/14/2019	14:14	0.4	U	0.4	2.0	***1.0***
98-82-8	Isopropylbenzene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
179601-23-1	m & p-Xylene	11/14/2019	14:14	0.7	U	0.7	2.0	***1.0***
75-09-2	Methylene chloride	11/14/2019	14:14	0.4	U	0.4	2.0	***1.0***
91-20-3	Naphthalene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
104-51-8	n-Butylbenzene	11/14/2019	14:14	0.29	U	0.29	1.00	***0.50***
103-65-1	n-Propylbenzene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
95-47-6	o-Xylene	11/14/2019	14:14	0.26	U	0.26	1.00	***0.50***
99-87-6	p-Isopropyltoluene	11/14/2019	14:14	0.369	B	0.3	1.0	***0.5***
135-98-8	sec-Butylbenzene	11/14/2019	14:14	0.4	U	0.4	1.0	***0.5***
100-42-5	Styrene	11/14/2019	14:14	0.29	U	0.29	1.00	***0.50***
98-06-6	tert-Butylbenzene	11/14/2019	14:14	0.4	U	0.4	2.0	***1.0***
127-18-4	Tetrachloroethene	11/14/2019	14:14	0.27	U	0.27	1.00	***0.50***
108-88-3	Toluene	11/14/2019	14:14	0.21	U	0.21	1.00	***0.50***
156-60-5	trans-1,2-Dichloroethene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.50***
10061-02-6	trans-1,3-Dichloropropene	11/14/2019	14:14	0.23	U	0.23	1.00	***0.50***
79-01-6	Trichloroethene	11/14/2019	14:14	0.3	U	0.3	1.0	***0.5***
75-69-4	Trichlorofluoromethane	11/14/2019	14:14	0.4	U	0.4	2.0	***1.0***
108-05-4	Vinyl acetate	11/14/2019	14:14	5	U	5	20	***10***
75-01-4	Vinyl chloride	11/14/2019	14:14	0.14	U	0.14	0.60	***0.30***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	358544
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166501	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
71-55-6	1,1,1-Trichloroethane	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
79-34-5	1,1,2,2-Tetrachloroethane	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
79-00-5	1,1,2-Trichloroethane	11/15/2019	10:42	0.30	U	0.30	1.00	***0.50***
75-34-3	1,1-Dichloroethane	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
75-35-4	1,1-Dichloroethene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
563-58-6	1,1-Dichloropropene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
87-61-6	1,2,3-Trichlorobenzene	11/15/2019	10:42	0.23	U	0.23	1.00	***0.50***
96-18-4	1,2,3-Trichloropropane	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
120-82-1	1,2,4-Trichlorobenzene	11/15/2019	10:42	0.28	U	0.28	1.00	***0.50***
95-63-6	1,2,4-Trimethylbenzene	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
96-12-8	1,2-Dibromo-3-chloropropane	11/15/2019	10:42	0.25	U	0.25	1.00	***0.50***
106-93-4	1,2-Dibromoethane	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
95-50-1	1,2-Dichlorobenzene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
107-06-2	1,2-Dichloroethane	11/15/2019	10:42	0.24	U	0.24	1.00	***0.50***
78-87-5	1,2-Dichloropropane	11/15/2019	10:42	0.18	U	0.18	1.00	***0.50***
108-67-8	1,3,5-Trimethylbenzene	11/15/2019	10:42	0.27	U	0.27	1.00	***0.50***
541-73-1	1,3-Dichlorobenzene	11/15/2019	10:42	0.26	U	0.26	1.00	***0.50***
142-28-9	1,3-Dichloropropane	11/15/2019	10:42	0.17	U	0.17	0.60	***0.30***
106-46-7	1,4-Dichlorobenzene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
594-20-7	2,2-Dichloropropane	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
78-93-3	2-Butanone	11/15/2019	10:42	2.6	U	2.6	10.0	***5.0***
95-49-8	2-Chlorotoluene	11/15/2019	10:42	0.25	U	0.25	1.00	***0.50***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	358544
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166501	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
591-78-6	2-Hexanone	11/15/2019	10:42	3	U	3	10	***5***
106-43-4	4-Chlorotoluene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
108-10-1	4-Methyl-2-pentanone	11/15/2019	10:42	2.2	U	2.2	10.0	***5.0***
67-64-1	Acetone	11/15/2019	10:42	4	U	4	20	***10***
71-43-2	Benzene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
108-86-1	Bromobenzene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
74-97-5	Bromochloromethane	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
75-27-4	Bromodichloromethane	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
75-25-2	Bromoform	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
74-83-9	Bromomethane	11/15/2019	10:42	0.9	U	0.9	4.0	***2.0***
75-15-0	Carbon disulfide	11/15/2019	10:42	0.6	U	0.6	4.0	***2.0***
56-23-5	Carbon tetrachloride	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
108-90-7	Chlorobenzene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
75-00-3	Chloroethane	11/15/2019	10:42	0.5	U	0.5	2.0	***1.0***
67-66-3	Chloroform	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
74-87-3	Chloromethane	11/15/2019	10:42	0.6	U	0.6	2.0	***1.0***
156-59-2	cis-1,2-Dichloroethene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.5***
10061-01-5	cis-1,3-Dichloropropene	11/15/2019	10:42	0.16	U	0.16	0.60	***0.30***
124-48-1	Dibromochloromethane	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
74-95-3	Dibromomethane	11/15/2019	10:42	0.22	U	0.22	1.00	***0.50***
75-71-8	Dichlorodifluoromethane	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
100-41-4	Ethylbenzene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
76-13-1	Freon 113	11/15/2019	10:42	0.7	U	0.7	4.0	***2.0***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	358544
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166501	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-68-3	Hexachlorobutadiene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
98-82-8	Isopropylbenzene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
179601-23-1	m & p-Xylene	11/15/2019	10:42	0.7	U	0.7	2.0	***1.0***
75-09-2	Methylene chloride	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
91-20-3	Naphthalene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
104-51-8	n-Butylbenzene	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
103-65-1	n-Propylbenzene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
95-47-6	o-Xylene	11/15/2019	10:42	0.26	U	0.26	1.00	***0.50***
99-87-6	p-Isopropyltoluene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
135-98-8	sec-Butylbenzene	11/15/2019	10:42	0.4	U	0.4	1.0	***0.5***
100-42-5	Styrene	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
98-06-6	tert-Butylbenzene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
127-18-4	Tetrachloroethene	11/15/2019	10:42	0.27	U	0.27	1.00	***0.50***
108-88-3	Toluene	11/15/2019	10:42	0.21	U	0.21	1.00	***0.50***
156-60-5	trans-1,2-Dichloroethene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.50***
10061-02-6	trans-1,3-Dichloropropene	11/15/2019	10:42	0.23	U	0.23	1.00	***0.50***
79-01-6	Trichloroethene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
75-69-4	Trichlorofluoromethane	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
108-05-4	Vinyl acetate	11/15/2019	10:42	5	U	5	20	***10***
75-01-4	Vinyl chloride	11/15/2019	10:42	0.14	U	0.14	0.60	***0.30***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	361430
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166500	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
71-55-6	1,1,1-Trichloroethane	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
79-34-5	1,1,2,2-Tetrachloroethane	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
79-00-5	1,1,2-Trichloroethane	11/15/2019	10:42	0.30	U	0.30	1.00	***0.50***
75-34-3	1,1-Dichloroethane	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
75-35-4	1,1-Dichloroethene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
563-58-6	1,1-Dichloropropene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
87-61-6	1,2,3-Trichlorobenzene	11/15/2019	10:42	0.23	U	0.23	1.0	***0.5***
96-18-4	1,2,3-Trichloropropane	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
120-82-1	1,2,4-Trichlorobenzene	11/15/2019	10:42	0.28	U	0.28	1.0	***0.5***
95-63-6	1,2,4-Trimethylbenzene	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
96-12-8	1,2-Dibromo-3-chloropropane	11/15/2019	10:42	0.25	U	0.25	1.0	***0.5***
106-93-4	1,2-Dibromoethane	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
95-50-1	1,2-Dichlorobenzene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
107-06-2	1,2-Dichloroethane	11/15/2019	10:42	0.24	U	0.24	1.0	***0.5***
78-87-5	1,2-Dichloropropane	11/15/2019	10:42	0.18	U	0.18	1.00	***0.50***
108-70-3	1,3,5-Trichlorobenzene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
108-67-8	1,3,5-Trimethylbenzene	11/15/2019	10:42	0.27	U	0.27	1.00	***0.50***
541-73-1	1,3-Dichlorobenzene	11/15/2019	10:42	0.26	U	0.26	1.00	***0.50***
142-28-9	1,3-Dichloropropane	11/15/2019	10:42	0.17	U	0.17	0.6	***0.3***
764-41-0	1,4-Dichloro-2-butene	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
106-46-7	1,4-Dichlorobenzene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
123-91-1	1,4-Dioxane	11/15/2019	10:42	34	U	34	100	***50***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	361430
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166500	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
354-23-4	12Dichloro112trifluoroethane	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
544-10-5	1-Chlorohexane	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
594-20-7	2,2-Dichloropropane	11/15/2019	10:42	0.30	U	0.30	1.00	***0.50***
78-93-3	2-Butanone	11/15/2019	10:42	2.6	U	2.6	10.0	***5***
110-75-8	2-Chloroethyl vinyl ether	11/15/2019	10:42	5	U	5	20	***10***
95-49-8	2-Chlorotoluene	11/15/2019	10:42	0.25	U	0.25	1.00	***0.50***
591-78-6	2-Hexanone	11/15/2019	10:42	3	U	3	10.0	***5.0***
79-46-9	2-Nitropropane	11/15/2019	10:42	1.7	U	1.7	10	***5***
106-43-4	4-Chlorotoluene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
108-10-1	4-Methyl-2-pentanone	11/15/2019	10:42	2.2	U	2.2	10	***5***
67-64-1	Acetone	11/15/2019	10:42	4	U	4	20	***10***
107-02-8	Acrolein	11/15/2019	10:42	1.6	U	1.6	5.0	***2.5***
107-13-1	Acrylonitrile	11/15/2019	10:42	1.9	U	1.9	5.0	***2.5***
71-43-2	Benzene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
108-86-1	Bromobenzene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
74-97-5	Bromochloromethane	11/15/2019	10:42	0.30	U	0.30	1.00	***0.50***
75-27-4	Bromodichloromethane	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
75-25-2	Bromoform	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
74-83-9	Bromomethane	11/15/2019	10:42	0.9	U	0.9	4.0	***2.0***
75-15-0	Carbon disulfide	11/15/2019	10:42	0.6	U	0.6	4.0	***2.0***
56-23-5	Carbon tetrachloride	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
108-90-7	Chlorobenzene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
75-00-3	Chloroethane	11/15/2019	10:42	0.5	U	0.5	2.0	***1.0***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	361430
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166500	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
67-66-3	Chloroform	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
74-87-3	Chloromethane	11/15/2019	10:42	0.6	U	0.6	2.0	***1.0***
126-99-8	Chloroprene	11/15/2019	10:42	0.7	U	0.7	4.0	***2.0***
156-59-2	cis-1,2-Dichloroethene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
10061-01-5	cis-1,3-Dichloropropene	11/15/2019	10:42	0.16	U	0.16	0.60	***0.30***
110-82-7	Cyclohexane	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
108-94-1	Cyclohexanone	11/15/2019	10:42	7	U	7	20	***10***
124-48-1	Dibromochloromethane	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
74-95-3	Dibromomethane	11/15/2019	10:42	0.22	U	0.22	1.00	***0.50***
75-71-8	Dichlorodifluoromethane	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
75-43-4	Dichlorofluoromethane	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
108-20-3	Diisopropyl ether	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
141-78-6	Ethyl acetate	11/15/2019	10:42	0.7	U	0.7	10.0	***5.0***
60-29-7	Ethyl ether	11/15/2019	10:42	0.5	U	0.5	2.0	***1.0***
97-63-2	Ethyl methacrylate	11/15/2019	10:42	0.5	U	0.5	4.0	***2.0***
100-41-4	Ethylbenzene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
76-13-1	Freon 113	11/15/2019	10:42	0.7	U	0.7	4.0	***2.0***
87-68-3	Hexachlorobutadiene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
110-54-3	Hexane	11/15/2019	10:42	0.7	U	0.7	4.0	***2.0***
74-88-4	Iodomethane	11/15/2019	10:42	1.9	U	1.9	8.0	***4.0***
98-82-8	Isopropylbenzene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
179601-23-1	m & p-Xylene	11/15/2019	10:42	0.7	U	0.7	2.0	***1.0***
79-20-9	Methyl Acetate	11/15/2019	10:42	0.5	U	0.5	2.0	***1.0***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	361430
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166500	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	W111219.	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
1634-04-4	Methyl tert-butyl ether	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
75-09-2	Methylene chloride	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
91-20-3	Naphthalene	11/15/2019	10:42	0.30	U	0.30	1.0	***0.5***
104-51-8	n-Butylbenzene	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
103-65-1	n-Propylbenzene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
95-47-6	o-Xylene	11/15/2019	10:42	0.26	U	0.26	1.00	***0.50***
99-87-6	p-Isopropyltoluene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
135-98-8	sec-Butylbenzene	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
100-42-5	Styrene	11/15/2019	10:42	0.29	U	0.29	1.00	***0.50***
994-05-8	Tert-amyl methyl ether	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
75-65-0	Tert-butyl alcohol	11/15/2019	10:42	16	U	16	50	***25***
637-92-3	Tert-butyl ethyl ether	11/15/2019	10:42	0.3	U	0.3	1.0	***0.5***
98-06-6	tert-Butylbenzene	11/15/2019	10:42	0.4	U	0.4	2	***1.0***
127-18-4	Tetrachloroethene	11/15/2019	10:42	0.27	U	0.27	1.0	***0.5***
109-99-9	Tetrahydrofuran	11/15/2019	10:42	3	U	3	10	***5***
108-88-3	Toluene	11/15/2019	10:42	0.21	U	0.21	1.00	***0.50***
156-60-5	trans-1,2-Dichloroethene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
10061-02-6	trans-1,3-Dichloropropene	11/15/2019	10:42	0.23	U	0.23	1.00	***0.50***
79-01-6	Trichloroethene	11/15/2019	10:42	0.3	U	0.3	1.00	***0.50***
75-69-4	Trichlorofluoromethane	11/15/2019	10:42	0.4	U	0.4	2.0	***1.0***
108-05-4	Vinyl acetate	11/15/2019	10:42	5	U	5	20	***10***
75-01-4	Vinyl chloride	11/15/2019	10:42	0.14	U	0.14	0.60	***0.30***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	364671
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	167058	Dilution Factor:	100.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			11/22/2019 / 09:40
ICAL Calibration #:	W112419.	Concentration Units:	mg/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
75-35-4	1,1-Dichloroethene	12/01/2019	14:34	0.0004	U	0.0004	0.0020	***0.0010***
107-06-2	1,2-Dichloroethane	12/01/2019	14:34	0.00024	U	0.00024	0.00100	***0.00050***
78-93-3	2-Butanone	12/01/2019	14:34	0.0026	U	0.0026	0.0100	***0.0050***
71-43-2	Benzene	12/01/2019	14:34	0.0004	U	0.0004	0.0020	***0.0010***
56-23-5	Carbon tetrachloride	12/01/2019	14:34	0.0003	U	0.0003	0.0010	***0.0005***
108-90-7	Chlorobenzene	12/01/2019	14:34	0.0003	U	0.0003	0.0010	***0.0005***
67-66-3	Chloroform	12/01/2019	14:34	0.0003	U	0.0003	0.0010	***0.0005***
127-18-4	Tetrachloroethene	12/01/2019	14:34	0.00027	U	0.00027	0.00100	***0.00050***
79-01-6	Trichloroethene	12/01/2019	14:34	0.0003	U	0.0003	0.0010	***0.0005***
75-01-4	Vinyl chloride	12/01/2019	14:34	0.00014	U	0.00014	0.00060	***0.00030***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	365259
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
71-55-6	1,1,1-Trichloroethane	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
79-34-5	1,1,2,2-Tetrachloroethane	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
79-00-5	1,1,2-Trichloroethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-34-3	1,1-Dichloroethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-35-4	1,1-Dichloroethene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
563-58-6	1,1-Dichloropropene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
87-61-6	1,2,3-Trichlorobenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
96-18-4	1,2,3-Trichloropropane	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
120-82-1	1,2,4-Trichlorobenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
95-63-6	1,2,4-Trimethylbenzene	11/14/2019	09:46	0.0008	U	0.0008	0.0040	***0.0020***
96-12-8	1,2-Dibromo-3-chloropropane	11/14/2019	09:46	0.0013	U	0.0013	0.0040	***0.0020***
106-93-4	1,2-Dibromoethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
95-50-1	1,2-Dichlorobenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
107-06-2	1,2-Dichloroethane	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
78-87-5	1,2-Dichloropropane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
108-67-8	1,3,5-Trimethylbenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
541-73-1	1,3-Dichlorobenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
142-28-9	1,3-Dichloropropane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
106-46-7	1,4-Dichlorobenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
594-20-7	2,2-Dichloropropane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
78-93-3	2-Butanone	11/14/2019	09:46	0.010	U	0.010	0.040	***0.020***
95-49-8	2-Chlorotoluene	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	365259
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
591-78-6	2-Hexanone	11/14/2019	09:46	0.011	U	0.011	0.040	***0.020***
106-43-4	4-Chlorotoluene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
108-10-1	4-Methyl-2-pentanone	11/14/2019	09:46	0.010	U	0.010	0.040	***0.020***
67-64-1	Acetone	11/14/2019	09:46	0.010	U	0.010	0.040	***0.020***
71-43-2	Benzene	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
108-86-1	Bromobenzene	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
74-97-5	Bromochloromethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-27-4	Bromodichloromethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-25-2	Bromoform	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
74-83-9	Bromomethane	11/14/2019	09:46	0.0007	U	0.0007	0.0040	***0.0020***
75-15-0	Carbon disulfide	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
56-23-5	Carbon tetrachloride	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
108-90-7	Chlorobenzene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-00-3	Chloroethane	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
67-66-3	Chloroform	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
74-87-3	Chloromethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
156-59-2	cis-1,2-Dichloroethene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
10061-01-5	cis-1,3-Dichloropropene	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
124-48-1	Dibromochloromethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
74-95-3	Dibromomethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-71-8	Dichlorodifluoromethane	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***
100-41-4	Ethylbenzene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
76-13-1	Freon 113	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	365259
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-68-3	Hexachlorobutadiene	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***
98-82-8	Isopropylbenzene	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
179601-23-1	m & p-Xylene	11/14/2019	09:46	0.0007	U	0.0007	0.0040	***0.0020***
75-09-2	Methylene chloride	11/14/2019	09:46	0.0017	U	0.0017	0.004	***0.002***
91-20-3	Naphthalene	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***
104-51-8	n-Butylbenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
103-65-1	n-Propylbenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
95-47-6	o-Xylene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
99-87-6	p-Isopropyltoluene	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***
135-98-8	sec-Butylbenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
100-42-5	Styrene	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
98-06-6	tert-Butylbenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
127-18-4	Tetrachloroethene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
108-88-3	Toluene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
156-60-5	trans-1,2-Dichloroethene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
10061-02-6	trans-1,3-Dichloropropene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
79-01-6	Trichloroethene	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
75-69-4	Trichlorofluoromethane	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
108-05-4	Vinyl acetate	11/14/2019	09:46	0.012	U	0.012	0.040	***0.020***
75-01-4	Vinyl chloride	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366398
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
71-55-6	1,1,1-Trichloroethane	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
79-34-5	1,1,2,2-Tetrachloroethane	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
79-00-5	1,1,2-Trichloroethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-34-3	1,1-Dichloroethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-35-4	1,1-Dichloroethene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
563-58-6	1,1-Dichloropropene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
87-61-6	1,2,3-Trichlorobenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
96-18-4	1,2,3-Trichloropropane	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
120-82-1	1,2,4-Trichlorobenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
95-63-6	1,2,4-Trimethylbenzene	11/18/2019	17:49	0.0008	U	0.0008	0.0040	***0.0020***
96-12-8	1,2-Dibromo-3-chloropropane	11/18/2019	17:49	0.0013	U	0.0013	0.0040	***0.0020***
106-93-4	1,2-Dibromoethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
95-50-1	1,2-Dichlorobenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
107-06-2	1,2-Dichloroethane	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
78-87-5	1,2-Dichloropropane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
108-67-8	1,3,5-Trimethylbenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
541-73-1	1,3-Dichlorobenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
142-28-9	1,3-Dichloropropane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
106-46-7	1,4-Dichlorobenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
594-20-7	2,2-Dichloropropane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
78-93-3	2-Butanone	11/18/2019	17:49	0.010	U	0.010	0.040	***0.020***
95-49-8	2-Chlorotoluene	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366398
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
591-78-6	2-Hexanone	11/18/2019	17:49	0.011	U	0.011	0.040	***0.020***
106-43-4	4-Chlorotoluene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
108-10-1	4-Methyl-2-pentanone	11/18/2019	17:49	0.010	U	0.010	0.040	***0.020***
67-64-1	Acetone	11/18/2019	17:49	0.010	U	0.010	0.040	***0.020***
71-43-2	Benzene	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
108-86-1	Bromobenzene	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
74-97-5	Bromochloromethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-27-4	Bromodichloromethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-25-2	Bromoform	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
74-83-9	Bromomethane	11/18/2019	17:49	0.0007	U	0.0007	0.0040	***0.0020***
75-15-0	Carbon disulfide	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
56-23-5	Carbon tetrachloride	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
108-90-7	Chlorobenzene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-00-3	Chloroethane	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
67-66-3	Chloroform	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
74-87-3	Chloromethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
156-59-2	cis-1,2-Dichloroethene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
10061-01-5	cis-1,3-Dichloropropene	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
124-48-1	Dibromochloromethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
74-95-3	Dibromomethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-71-8	Dichlorodifluoromethane	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***
100-41-4	Ethylbenzene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
76-13-1	Freon 113	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366398
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-68-3	Hexachlorobutadiene	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***
98-82-8	Isopropylbenzene	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
179601-23-1	m & p-Xylene	11/18/2019	17:49	0.0007	U	0.0007	0.0040	***0.0020***
75-09-2	Methylene chloride	11/18/2019	17:49	0.0609	B	0.0017	0.004	***0.002***
91-20-3	Naphthalene	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***
104-51-8	n-Butylbenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
103-65-1	n-Propylbenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
95-47-6	o-Xylene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
99-87-6	p-Isopropyltoluene	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***
135-98-8	sec-Butylbenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
100-42-5	Styrene	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
98-06-6	tert-Butylbenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
127-18-4	Tetrachloroethene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
108-88-3	Toluene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
156-60-5	trans-1,2-Dichloroethene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
10061-02-6	trans-1,3-Dichloropropene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
79-01-6	Trichloroethene	11/18/2019	17:49	0.019	U	0.019	0.10	***0.10***
75-69-4	Trichlorofluoromethane	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
108-05-4	Vinyl acetate	11/18/2019	17:49	0.012	U	0.012	0.040	***0.020***
75-01-4	Vinyl chloride	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366409
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
71-55-6	1,1,1-Trichloroethane	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
79-34-5	1,1,2,2-Tetrachloroethane	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
79-00-5	1,1,2-Trichloroethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-34-3	1,1-Dichloroethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-35-4	1,1-Dichloroethene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
563-58-6	1,1-Dichloropropene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
87-61-6	1,2,3-Trichlorobenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
96-18-4	1,2,3-Trichloropropane	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
120-82-1	1,2,4-Trichlorobenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
95-63-6	1,2,4-Trimethylbenzene	11/19/2019	09:32	0.0008	U	0.0008	0.0040	***0.0020***
96-12-8	1,2-Dibromo-3-chloropropane	11/19/2019	09:32	0.0013	U	0.0013	0.0040	***0.0020***
106-93-4	1,2-Dibromoethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
95-50-1	1,2-Dichlorobenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
107-06-2	1,2-Dichloroethane	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
78-87-5	1,2-Dichloropropane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
108-67-8	1,3,5-Trimethylbenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
541-73-1	1,3-Dichlorobenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
142-28-9	1,3-Dichloropropane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
106-46-7	1,4-Dichlorobenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
594-20-7	2,2-Dichloropropane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
78-93-3	2-Butanone	11/19/2019	09:32	0.010	U	0.010	0.040	***0.020***
95-49-8	2-Chlorotoluene	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366409
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
591-78-6	2-Hexanone	11/19/2019	09:32	0.011	U	0.011	0.040	***0.020***
106-43-4	4-Chlorotoluene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
108-10-1	4-Methyl-2-pentanone	11/19/2019	09:32	0.010	U	0.010	0.040	***0.020***
67-64-1	Acetone	11/19/2019	09:32	0.010	U	0.010	0.040	***0.020***
71-43-2	Benzene	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
108-86-1	Bromobenzene	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
74-97-5	Bromochloromethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-27-4	Bromodichloromethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-25-2	Bromoform	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
74-83-9	Bromomethane	11/19/2019	09:32	0.0007	U	0.0007	0.0040	***0.0020***
75-15-0	Carbon disulfide	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
56-23-5	Carbon tetrachloride	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
108-90-7	Chlorobenzene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-00-3	Chloroethane	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
67-66-3	Chloroform	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
74-87-3	Chloromethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
156-59-2	cis-1,2-Dichloroethene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
10061-01-5	cis-1,3-Dichloropropene	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
124-48-1	Dibromochloromethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
74-95-3	Dibromomethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-71-8	Dichlorodifluoromethane	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***
100-41-4	Ethylbenzene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
76-13-1	Freon 113	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366409
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166497	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-68-3	Hexachlorobutadiene	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***
98-82-8	Isopropylbenzene	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
179601-23-1	m & p-Xylene	11/19/2019	09:32	0.0007	U	0.0007	0.0040	***0.0020***
75-09-2	Methylene chloride	11/19/2019	09:32	0.0611	B	0.0017	0.004	***0.002***
91-20-3	Naphthalene	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***
104-51-8	n-Butylbenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
103-65-1	n-Propylbenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
95-47-6	o-Xylene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
99-87-6	p-Isopropyltoluene	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***
135-98-8	sec-Butylbenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
100-42-5	Styrene	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
98-06-6	tert-Butylbenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
127-18-4	Tetrachloroethene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
108-88-3	Toluene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
156-60-5	trans-1,2-Dichloroethene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
10061-02-6	trans-1,3-Dichloropropene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
79-01-6	Trichloroethene	11/19/2019	09:32	0.019	U	0.019	0.10	***0.10***
75-69-4	Trichlorofluoromethane	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
108-05-4	Vinyl acetate	11/19/2019	09:32	0.012	U	0.012	0.040	***0.020***
75-01-4	Vinyl chloride	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366470
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
71-55-6	1,1,1-Trichloroethane	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
79-34-5	1,1,2,2-Tetrachloroethane	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
79-00-5	1,1,2-Trichloroethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-34-3	1,1-Dichloroethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-35-4	1,1-Dichloroethene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
563-58-6	1,1-Dichloropropene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
87-61-6	1,2,3-Trichlorobenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
96-18-4	1,2,3-Trichloropropane	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
120-82-1	1,2,4-Trichlorobenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
95-63-6	1,2,4-Trimethylbenzene	11/18/2019	17:49	0.0008	U	0.0008	0.0040	***0.0020***
96-12-8	1,2-Dibromo-3-chloropropane	11/18/2019	17:49	0.0013	U	0.0013	0.0040	***0.0020***
106-93-4	1,2-Dibromoethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
95-50-1	1,2-Dichlorobenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
107-06-2	1,2-Dichloroethane	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
78-87-5	1,2-Dichloropropane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
108-67-8	1,3,5-Trimethylbenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
541-73-1	1,3-Dichlorobenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
142-28-9	1,3-Dichloropropane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
106-46-7	1,4-Dichlorobenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
594-20-7	2,2-Dichloropropane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
78-93-3	2-Butanone	11/18/2019	17:49	0.010	U	0.010	0.040	***0.020***
95-49-8	2-Chlorotoluene	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366470
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
591-78-6	2-Hexanone	11/18/2019	17:49	0.011	U	0.011	0.040	***0.020***
106-43-4	4-Chlorotoluene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
108-10-1	4-Methyl-2-pentanone	11/18/2019	17:49	0.010	U	0.010	0.040	***0.020***
67-64-1	Acetone	11/18/2019	17:49	0.010	U	0.010	0.040	***0.020***
71-43-2	Benzene	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
108-86-1	Bromobenzene	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
74-97-5	Bromochloromethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-27-4	Bromodichloromethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-25-2	Bromoform	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
74-83-9	Bromomethane	11/18/2019	17:49	0.0007	U	0.0007	0.0040	***0.0020***
75-15-0	Carbon disulfide	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
56-23-5	Carbon tetrachloride	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
108-90-7	Chlorobenzene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-00-3	Chloroethane	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
67-66-3	Chloroform	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
74-87-3	Chloromethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
156-59-2	cis-1,2-Dichloroethene	11/18/2019	17:49	0.027	U	0.027	0.10	***0.10***
10061-01-5	cis-1,3-Dichloropropene	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
124-48-1	Dibromochloromethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
74-95-3	Dibromomethane	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
75-71-8	Dichlorodifluoromethane	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***
100-41-4	Ethylbenzene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
76-13-1	Freon 113	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366470
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-68-3	Hexachlorobutadiene	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***
98-82-8	Isopropylbenzene	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
179601-23-1	m & p-Xylene	11/18/2019	17:49	0.0007	U	0.0007	0.0040	***0.0020***
75-09-2	Methylene chloride	11/18/2019	17:49	0.0609	B	0.0017	0.004	***0.002***
91-20-3	Naphthalene	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***
104-51-8	n-Butylbenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
103-65-1	n-Propylbenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
95-47-6	o-Xylene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
99-87-6	p-Isopropyltoluene	11/18/2019	17:49	0.0010	U	0.0010	0.0040	***0.0020***
135-98-8	sec-Butylbenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
100-42-5	Styrene	11/18/2019	17:49	0.0003	U	0.0003	0.0020	***0.0010***
98-06-6	tert-Butylbenzene	11/18/2019	17:49	0.0009	U	0.0009	0.0040	***0.0020***
127-18-4	Tetrachloroethene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
108-88-3	Toluene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
156-60-5	trans-1,2-Dichloroethene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
10061-02-6	trans-1,3-Dichloropropene	11/18/2019	17:49	0.0004	U	0.0004	0.0020	***0.0010***
79-01-6	Trichloroethene	11/18/2019	17:49	0.019	U	0.019	0.10	***0.10***
75-69-4	Trichlorofluoromethane	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***
108-05-4	Vinyl acetate	11/18/2019	17:49	0.012	U	0.012	0.040	***0.020***
75-01-4	Vinyl chloride	11/18/2019	17:49	0.0005	U	0.0005	0.0020	***0.0010***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366471
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
71-55-6	1,1,1-Trichloroethane	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
79-34-5	1,1,2,2-Tetrachloroethane	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
79-00-5	1,1,2-Trichloroethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-34-3	1,1-Dichloroethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-35-4	1,1-Dichloroethene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
563-58-6	1,1-Dichloropropene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
87-61-6	1,2,3-Trichlorobenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
96-18-4	1,2,3-Trichloropropane	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
120-82-1	1,2,4-Trichlorobenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
95-63-6	1,2,4-Trimethylbenzene	11/19/2019	09:32	0.0008	U	0.0008	0.0040	***0.0020***
96-12-8	1,2-Dibromo-3-chloropropane	11/19/2019	09:32	0.0013	U	0.0013	0.0040	***0.0020***
106-93-4	1,2-Dibromoethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
95-50-1	1,2-Dichlorobenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
107-06-2	1,2-Dichloroethane	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
78-87-5	1,2-Dichloropropane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
108-67-8	1,3,5-Trimethylbenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
541-73-1	1,3-Dichlorobenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
142-28-9	1,3-Dichloropropane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
106-46-7	1,4-Dichlorobenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
594-20-7	2,2-Dichloropropane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
78-93-3	2-Butanone	11/19/2019	09:32	0.010	U	0.010	0.040	***0.020***
95-49-8	2-Chlorotoluene	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366471
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
591-78-6	2-Hexanone	11/19/2019	09:32	0.011	U	0.011	0.040	***0.020***
106-43-4	4-Chlorotoluene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
108-10-1	4-Methyl-2-pentanone	11/19/2019	09:32	0.010	U	0.010	0.040	***0.020***
67-64-1	Acetone	11/19/2019	09:32	0.010	U	0.010	0.040	***0.020***
71-43-2	Benzene	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
108-86-1	Bromobenzene	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
74-97-5	Bromochloromethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-27-4	Bromodichloromethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-25-2	Bromoform	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
74-83-9	Bromomethane	11/19/2019	09:32	0.0007	U	0.0007	0.0040	***0.0020***
75-15-0	Carbon disulfide	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
56-23-5	Carbon tetrachloride	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
108-90-7	Chlorobenzene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-00-3	Chloroethane	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
67-66-3	Chloroform	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
74-87-3	Chloromethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
156-59-2	cis-1,2-Dichloroethene	11/19/2019	09:32	0.027	U	0.027	0.10	***0.10***
10061-01-5	cis-1,3-Dichloropropene	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
124-48-1	Dibromochloromethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
74-95-3	Dibromomethane	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
75-71-8	Dichlorodifluoromethane	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***
100-41-4	Ethylbenzene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
76-13-1	Freon 113	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366471
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-68-3	Hexachlorobutadiene	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***
98-82-8	Isopropylbenzene	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
179601-23-1	m & p-Xylene	11/19/2019	09:32	0.0007	U	0.0007	0.0040	***0.0020***
75-09-2	Methylene chloride	11/19/2019	09:32	0.0611	B	0.0017	0.004	***0.002***
91-20-3	Naphthalene	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***
104-51-8	n-Butylbenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
103-65-1	n-Propylbenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
95-47-6	o-Xylene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
99-87-6	p-Isopropyltoluene	11/19/2019	09:32	0.0010	U	0.0010	0.0040	***0.0020***
135-98-8	sec-Butylbenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
100-42-5	Styrene	11/19/2019	09:32	0.0003	U	0.0003	0.0020	***0.0010***
98-06-6	tert-Butylbenzene	11/19/2019	09:32	0.0009	U	0.0009	0.0040	***0.0020***
127-18-4	Tetrachloroethene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
108-88-3	Toluene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
156-60-5	trans-1,2-Dichloroethene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
10061-02-6	trans-1,3-Dichloropropene	11/19/2019	09:32	0.0004	U	0.0004	0.0020	***0.0010***
79-01-6	Trichloroethene	11/19/2019	09:32	0.019	U	0.019	0.10	***0.10***
75-69-4	Trichlorofluoromethane	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***
108-05-4	Vinyl acetate	11/19/2019	09:32	0.012	U	0.012	0.040	***0.020***
75-01-4	Vinyl chloride	11/19/2019	09:32	0.0005	U	0.0005	0.0020	***0.0010***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366535
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
630-20-6	1,1,1,2-Tetrachloroethane	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
71-55-6	1,1,1-Trichloroethane	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
79-34-5	1,1,2,2-Tetrachloroethane	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
79-00-5	1,1,2-Trichloroethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-34-3	1,1-Dichloroethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-35-4	1,1-Dichloroethene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
563-58-6	1,1-Dichloropropene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
87-61-6	1,2,3-Trichlorobenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
96-18-4	1,2,3-Trichloropropane	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
120-82-1	1,2,4-Trichlorobenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
95-63-6	1,2,4-Trimethylbenzene	11/14/2019	09:46	0.0008	U	0.0008	0.0040	***0.0020***
96-12-8	1,2-Dibromo-3-chloropropane	11/14/2019	09:46	0.0013	U	0.0013	0.0040	***0.0020***
106-93-4	1,2-Dibromoethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
95-50-1	1,2-Dichlorobenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
107-06-2	1,2-Dichloroethane	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
78-87-5	1,2-Dichloropropane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
108-67-8	1,3,5-Trimethylbenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
541-73-1	1,3-Dichlorobenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
142-28-9	1,3-Dichloropropane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
106-46-7	1,4-Dichlorobenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
594-20-7	2,2-Dichloropropane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
78-93-3	2-Butanone	11/14/2019	09:46	0.010	U	0.010	0.040	***0.020***
95-49-8	2-Chlorotoluene	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366535
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
591-78-6	2-Hexanone	11/14/2019	09:46	0.011	U	0.011	0.040	***0.020***
106-43-4	4-Chlorotoluene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
108-10-1	4-Methyl-2-pentanone	11/14/2019	09:46	0.010	U	0.010	0.040	***0.020***
67-64-1	Acetone	11/14/2019	09:46	0.010	U	0.010	0.040	***0.020***
71-43-2	Benzene	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
108-86-1	Bromobenzene	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
74-97-5	Bromochloromethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-27-4	Bromodichloromethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-25-2	Bromoform	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
74-83-9	Bromomethane	11/14/2019	09:46	0.0007	U	0.0007	0.0040	***0.0020***
75-15-0	Carbon disulfide	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
56-23-5	Carbon tetrachloride	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
108-90-7	Chlorobenzene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-00-3	Chloroethane	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
67-66-3	Chloroform	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
74-87-3	Chloromethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
156-59-2	cis-1,2-Dichloroethene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
10061-01-5	cis-1,3-Dichloropropene	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
124-48-1	Dibromochloromethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
74-95-3	Dibromomethane	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
75-71-8	Dichlorodifluoromethane	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***
100-41-4	Ethylbenzene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
76-13-1	Freon 113	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	(g/mL)	CTL Sample ID:	366535
% Solids:		Date Received:	11/11/2019
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	166498	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):		/	
ICAL Calibration #:	LS111219	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
87-68-3	Hexachlorobutadiene	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***
98-82-8	Isopropylbenzene	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
179601-23-1	m & p-Xylene	11/14/2019	09:46	0.0007	U	0.0007	0.0040	***0.0020***
75-09-2	Methylene chloride	11/14/2019	09:46	0.0017	U	0.0017	0.004	***0.002***
91-20-3	Naphthalene	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***
104-51-8	n-Butylbenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
103-65-1	n-Propylbenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
95-47-6	o-Xylene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
99-87-6	p-Isopropyltoluene	11/14/2019	09:46	0.0010	U	0.0010	0.0040	***0.0020***
135-98-8	sec-Butylbenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
100-42-5	Styrene	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
98-06-6	tert-Butylbenzene	11/14/2019	09:46	0.0009	U	0.0009	0.0040	***0.0020***
127-18-4	Tetrachloroethene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
108-88-3	Toluene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
156-60-5	trans-1,2-Dichloroethene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
10061-02-6	trans-1,3-Dichloropropene	11/14/2019	09:46	0.0004	U	0.0004	0.0020	***0.0010***
79-01-6	Trichloroethene	11/14/2019	09:46	0.0003	U	0.0003	0.0020	***0.0010***
75-69-4	Trichlorofluoromethane	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***
108-05-4	Vinyl acetate	11/14/2019	09:46	0.012	U	0.012	0.040	***0.020***
75-01-4	Vinyl chloride	11/14/2019	09:46	0.0005	U	0.0005	0.0020	***0.0010***

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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166500	ICAL Calibration #:	W111219.

CTLab #	356164				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	99	81	118	
Bromofluorobenzene	100	101	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	97	80	119	

CTLab #	356190				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	81	118	
Bromofluorobenzene	100	100	85	114	
d8-Toluene	100	97	89	112	
Dibromofluoromethane	100	99	80	119	

CTLab #	356207				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	101	81	118	
Bromofluorobenzene	100	102	85	114	
d8-Toluene	100	98	89	112	
Dibromofluoromethane	100	96	80	119	

CTLab #	356208				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	81	118	
Bromofluorobenzene	100	99	85	114	
d8-Toluene	100	100	89	112	
Dibromofluoromethane	100	99	80	119	

CTLab #	356209				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	81	118	
Bromofluorobenzene	100	101	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	100	80	119	

CTLab #	356210				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	98	81	118	
Bromofluorobenzene	100	102	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	98	80	119	

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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166500	ICAL Calibration #:	W111219.

CTLab #	356211				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	107	81	118	
Bromofluorobenzene	100	102	85	114	
d8-Toluene	100	100	89	112	
Dibromofluoromethane	100	99	80	119	

CTLab #	356212				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	81	118	
Bromofluorobenzene	100	99	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	95	80	119	

CTLab #	356213				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	81	118	
Bromofluorobenzene	100	101	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	98	80	119	

CTLab #	356214				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	101	81	118	
Bromofluorobenzene	100	102	85	114	
d8-Toluene	100	96	89	112	
Dibromofluoromethane	100	95	80	119	

CTLab #	356215				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	81	118	
Bromofluorobenzene	100	101	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	99	80	119	

CTLab #	356216				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	104	81	118	
Bromofluorobenzene	100	99	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	97	80	119	

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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166500	ICAL Calibration #:	W111219.

CTLab #	356217				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	81	118	
Bromofluorobenzene	100	100	85	114	
d8-Toluene	100	98	89	112	
Dibromofluoromethane	100	100	80	119	

CTLab #	356220				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	99	81	118	
Bromofluorobenzene	100	103	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	99	80	119	

CTLab #	356221				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	81	118	
Bromofluorobenzene	100	103	85	114	
d8-Toluene	100	98	89	112	
Dibromofluoromethane	100	96	80	119	

CTLab #	356223				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	96	81	118	
Bromofluorobenzene	100	103	85	114	
d8-Toluene	100	98	89	112	
Dibromofluoromethane	100	99	80	119	

CTLab #	356224				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	81	118	
Bromofluorobenzene	100	103	85	114	
d8-Toluene	100	100	89	112	
Dibromofluoromethane	100	100	80	119	

CTLab #	358372	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	109	81	118	
Bromofluorobenzene	100	102	85	114	
d8-Toluene	100	99.0	89	112	
Dibromofluoromethane	100	100	80	119	

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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Analytical Method: EPA 8260C | SDG: 149511

Analytical Run #: 166500 | ICAL Calibration #: W111219.

CTLab #	358373	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	109	70	120	
Bromofluorobenzene	100	102	70	120	
d8-Toluene	100	99.0	85	120	
Dibromofluoromethane	100	100	85	115	
CTLab #	**358374**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	106	70	120	
Bromofluorobenzene	100	101	75	120	
d8-Toluene	100	99.0	85	120	
Dibromofluoromethane	100	100	85	115	
CTLab #	**358375**	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	108	81	118	
Bromofluorobenzene	100	100	85	114	
d8-Toluene	100	99.0	89	112	
Dibromofluoromethane	100	101	80	119	
CTLab #	**358376**	Sample Type:		Matrix Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	81	118	
Bromofluorobenzene	100	101	85	114	
d8-Toluene	100	100	89	112	
Dibromofluoromethane	100	102	80	119	
CTLab #	**358377**	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	106	50	150	
Bromofluorobenzene	100	99.0	50	150	
d8-Toluene	100	99.0	50	150	
Dibromofluoromethane	100	99.0	50	150	
CTLab #	**361428**	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	70	120	
Bromofluorobenzene	100	100	70	120	
d8-Toluene	100	98.0	85	120	
Dibromofluoromethane	100	97.0	85	115	

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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166500	ICAL Calibration #:	W111219.

CTLab #	361429	Sample Type:	Continuing Calibration Verification		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	94.0	50	150	
Bromofluorobenzene	100	98.0	50	150	
d8-Toluene	100	101	50	150	
Dibromofluoromethane	100	99.0	50	150	

CTLab #	361430	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	101	70	120	
Bromofluorobenzene	100	100	75	120	
d8-Toluene	100	99.0	85	120	
Dibromofluoromethane	100	98.0	85	115	

CT LABORATORIES
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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166501	ICAL Calibration #:	W111219.

CTLab #	356225				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	81	118	
Bromofluorobenzene	100	99	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	99	80	119	
CTLab #	**356227**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	101	81	118	
Bromofluorobenzene	100	102	85	114	
d8-Toluene	100	100	89	112	
Dibromofluoromethane	100	98	80	119	
CTLab #	**356228**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	81	118	
Bromofluorobenzene	100	101	85	114	
d8-Toluene	100	102	89	112	
Dibromofluoromethane	100	100	80	119	
CTLab #	**356229**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	81	118	
Bromofluorobenzene	100	104	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	98	80	119	
CTLab #	**356230**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	106	81	118	
Bromofluorobenzene	100	101	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	99	80	119	
CTLab #	**358448**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	81	118	
Bromofluorobenzene	100	100	85	114	
d8-Toluene	100	98.0	89	112	
Dibromofluoromethane	100	97.0	80	119	

CT LABORATORIES
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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166501	ICAL Calibration #:	W111219.

CTLab #	358449	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	70	120	
Bromofluorobenzene	100	100	70	120	
d8-Toluene	100	98.0	85	120	
Dibromofluoromethane	100	97.0	85	115	

CTLab #	358544	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	101	70	120	
Bromofluorobenzene	100	100	75	120	
d8-Toluene	100	99.0	85	120	
Dibromofluoromethane	100	98.0	85	115	

CTLab #	358637	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	81	118	
Bromofluorobenzene	100	100	85	114	
d8-Toluene	100	101	89	112	
Dibromofluoromethane	100	102	80	119	

CTLab #	358666	Sample Type:		Matrix Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	98.0	81	118	
Bromofluorobenzene	100	103	85	114	
d8-Toluene	100	100	89	112	
Dibromofluoromethane	100	99.0	80	119	

CTLab #	358796	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	94.0	50	150	
Bromofluorobenzene	100	98.0	50	150	
d8-Toluene	100	101	50	150	
Dibromofluoromethane	100	99.0	50	150	

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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	167058	ICAL Calibration #:	W112419.

CTLab #	356218				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	106	81	118	
Bromofluorobenzene	100	97	85	114	
d8-Toluene	100	99	89	112	
Dibromofluoromethane	100	102	80	119	

CTLab #	356626				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	101	81	118	
Bromofluorobenzene	100	98	85	114	
d8-Toluene	100	98	89	112	
Dibromofluoromethane	100	99	80	119	

CTLab #	357208				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	107	81	118	
Bromofluorobenzene	100	98	85	114	
d8-Toluene	100	98	89	112	
Dibromofluoromethane	100	101	80	119	

CTLab #	364663	Sample Type:	Continuing Calibration Verification		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	80	120	
Bromofluorobenzene	100	99.0	80	120	
d8-Toluene	100	99.0	80	120	
Dibromofluoromethane	100	103	80	120	

CTLab #	364668	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	111	81	118	
Bromofluorobenzene	100	98.0	85	114	
d8-Toluene	100	101	89	112	
Dibromofluoromethane	100	103	80	119	

CTLab #	364671	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	107	70	120	
Bromofluorobenzene	100	102	75	120	
d8-Toluene	100	98.0	85	120	
Dibromofluoromethane	100	99.0	85	115	

CT LABORATORIES
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2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	167058	ICAL Calibration #:	W112419.

CTLab #	366957	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	50	150	
Bromofluorobenzene	100	97.0	50	150	
d8-Toluene	100	100	50	150	
Dibromofluoromethane	100	100	50	150	

CTLab #	367011	Sample Type:		Lab Control Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	81	118	
Bromofluorobenzene	100	97.0	85	114	
d8-Toluene	100	100	89	112	
Dibromofluoromethane	100	100	80	119	

CT LABORATORIES
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2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166497	ICAL Calibration #:	LS111219

CTLab #	356170				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**356171**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	105	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356172**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	110	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356173**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	95	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**356174**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	110	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	110	78	119	
CTLab #	**356175**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	115	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	

CT LABORATORIES
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2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Analytical Method: EPA 8260C | SDG: 149511

Analytical Run #: 166497 | ICAL Calibration #: LS111219

CTLab #	356176				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	95	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**356177**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	120	79	119	*FAIL*
d8-Toluene	100	95	85	116	
Dibromofluoromethane	100	110	78	119	
CTLab #	**356178**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	71	136	
Bromofluorobenzene	100	110	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	110	78	119	
CTLab #	**356179**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	95	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**356180**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356181**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	105	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	

CT LABORATORIES
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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166497	ICAL Calibration #:	LS111219

CTLab #	356182				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	105	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	

CTLab #	356183				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	95	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	

CTLab #	356184				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	120	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	

CTLab #	356186				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	

CTLab #	356187				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	71	136	
Bromofluorobenzene	100	95	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	

CTLab #	356188				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	105	79	119	
d8-Toluene	100	95	85	116	
Dibromofluoromethane	100	105	78	119	

CT LABORATORIES
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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166497	ICAL Calibration #:	LS111219

CTLab #	356995	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	110	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356996**	Sample Type:		Matrix Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	105	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356997**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**356998**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	95.0	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**357211**	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	80	120	
Bromofluorobenzene	100	100	80	120	
d8-Toluene	100	100	80	120	
Dibromofluoromethane	100	105	80	120	
CTLab #	**357225**	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	50	150	
Bromofluorobenzene	100	100	50	150	
d8-Toluene	100	105	50	150	
Dibromofluoromethane	100	105	50	150	

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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166497	ICAL Calibration #:	LS111219

CTLab #	357976	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	80	120	
Bromofluorobenzene	100	100	80	120	
d8-Toluene	100	100	80	120	
Dibromofluoromethane	100	105	80	120	
CTLab #	**358371**	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	50	150	
Bromofluorobenzene	100	100	50	150	
d8-Toluene	100	100	50	150	
Dibromofluoromethane	100	100	50	150	
CTLab #	**365259**	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	52	115	
Bromofluorobenzene	100	95.0	85	120	
d8-Toluene	100	100	85	115	
Dibromofluoromethane	100	105	54	117	
CTLab #	**366359**	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	80	120	
Bromofluorobenzene	100	94.0	80	120	
d8-Toluene	100	99.0	80	120	
Dibromofluoromethane	100	104	80	120	
CTLab #	**366360**	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	50	150	
Bromofluorobenzene	100	93.0	50	150	
d8-Toluene	100	99.0	50	150	
Dibromofluoromethane	100	101	50	150	
CTLab #	**366398**	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	98.0	52	115	
Bromofluorobenzene	100	95.0	85	120	
d8-Toluene	100	98.0	85	115	
Dibromofluoromethane	100	103	54	117	

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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166497	ICAL Calibration #:	LS111219

CTLab #	366406	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	50	150	
Bromofluorobenzene	100	94.0	50	150	
d8-Toluene	100	99.0	50	150	
Dibromofluoromethane	100	98.0	50	150	

CTLab #	366408	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	89.0	80	120	
Bromofluorobenzene	100	95.0	80	120	
d8-Toluene	100	97.0	80	120	
Dibromofluoromethane	100	99.0	80	120	

CTLab #	366409	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	98.0	52	115	
Bromofluorobenzene	100	95.0	85	120	
d8-Toluene	100	99.0	85	115	
Dibromofluoromethane	100	100	54	117	

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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166498	ICAL Calibration #:	LS111219

CTLab #	356185				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356189**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356191**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	95	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356192**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**356193**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	95	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356194**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	120	79	119	*FAIL*
d8-Toluene	100	95	85	116	
Dibromofluoromethane	100	105	78	119	

CT LABORATORIES
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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166498	ICAL Calibration #:	LS111219

CTLab #	356195				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	115	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356196**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	71	136	
Bromofluorobenzene	100	125	79	119	*FAIL*
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	110	78	119	
CTLab #	**356197**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	95	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356198**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356199**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	95	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356200**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	

CT LABORATORIES
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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Analytical Method: EPA 8260C | SDG: 149511

Analytical Run #: 166498 | ICAL Calibration #: LS111219

CTLab #	356201				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356202**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	71	136	
Bromofluorobenzene	100	95	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356203**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356204**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356205**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**356206**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	

CT LABORATORIES
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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166498	ICAL Calibration #:	LS111219

CTLab #	357000	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	110	78	119	
CTLab #	**357001**	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	105	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**357002**	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	95.0	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**357003**	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**357260**	Sample Type:	Continuing Calibration Verification		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	80	120	
Bromofluorobenzene	100	100	80	120	
d8-Toluene	100	100	80	120	
Dibromofluoromethane	100	100	80	120	
CTLab #	**357925**	Sample Type:	Continuing Calibration Verification		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	50	150	
Bromofluorobenzene	100	100	50	150	
d8-Toluene	100	105	50	150	
Dibromofluoromethane	100	105	50	150	

CT LABORATORIES
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2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166498	ICAL Calibration #:	LS111219

CTLab #	357977	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	80	120	
Bromofluorobenzene	100	100	80	120	
d8-Toluene	100	100	80	120	
Dibromofluoromethane	100	105	80	120	

CTLab #	358370	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	50	150	
Bromofluorobenzene	100	100	50	150	
d8-Toluene	100	100	50	150	
Dibromofluoromethane	100	100	50	150	

CTLab #	366465	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	80	120	
Bromofluorobenzene	100	94.0	80	120	
d8-Toluene	100	99.0	80	120	
Dibromofluoromethane	100	104	80	120	

CTLab #	366466	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	89.0	80	120	
Bromofluorobenzene	100	95.0	80	120	
d8-Toluene	100	97.0	80	120	
Dibromofluoromethane	100	99.0	80	120	

CTLab #	366467	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	50	150	
Bromofluorobenzene	100	93.0	50	150	
d8-Toluene	100	99.0	50	150	
Dibromofluoromethane	100	101	50	150	

CTLab #	366468	Sample Type:		Continuing Calibration Verification	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	50	150	
Bromofluorobenzene	100	94.0	50	150	
d8-Toluene	100	99.0	50	150	
Dibromofluoromethane	100	98.0	50	150	

CT LABORATORIES
delivering more than data from your environmental analyses

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8260C	SDG:	149511
Analytical Run #:	166498	ICAL Calibration #:	LS111219

CTLab #	366470	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	98.0	52	115	
Bromofluorobenzene	100	95.0	85	120	
d8-Toluene	100	98.0	85	115	
Dibromofluoromethane	100	103	54	117	

CTLab #	366471	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	98.0	52	115	
Bromofluorobenzene	100	95.0	85	120	
d8-Toluene	100	99.0	85	115	
Dibromofluoromethane	100	100	54	117	

CTLab #	366535	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	52	115	
Bromofluorobenzene	100	95.0	85	120	
d8-Toluene	100	100	85	115	
Dibromofluoromethane	100	105	54	117	

CT LABORATORIES
delivering more than data from your environmental analyses

3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Sample Description: **DPT-002**

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 166500 Sample No.: 358375 Parent Sample No.: 356207

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	11/14/2019	23:13	78-124	10.2	BDL	10.0	102
1,1,1-Trichloroethane	11/14/2019	23:13	74-131	10.7	BDL	10.0	107
1,1,2,2-Tetrachloroethane	11/14/2019	23:13	71-121	10.7	BDL	10.0	107
1,1,2-Trichloroethane	11/14/2019	23:13	80-119	10.3	BDL	10.0	103
1,1-Dichloroethane	11/14/2019	23:13	77-125	10.3	BDL	10.0	103
1,1-Dichloroethene	11/14/2019	23:13	71-131	10.8	BDL	10.0	108
1,1-Dichloropropene	11/14/2019	23:13	79-125	10.8	BDL	10.0	108
1,2,3-Trichlorobenzene	11/14/2019	23:13	69-129	11.2	BDL	10.0	112
1,2,3-Trichloropropane	11/14/2019	23:13	73-122	10.2	BDL	10.0	102
1,2,4-Trichlorobenzene	11/14/2019	23:13	69-130	11.2	BDL	10.0	112
1,2,4-Trimethylbenzene	11/14/2019	23:13	76-124	11.5	BDL	10.0	115
1,2-Dibromo-3-chloropropane	11/14/2019	23:13	62-128	10.9	BDL	10.0	109
1,2-Dibromoethane	11/14/2019	23:13	77-121	10.8	BDL	10.0	108
1,2-Dichlorobenzene	11/14/2019	23:13	80-119	10.4	BDL	10.0	104
1,2-Dichloroethane	11/14/2019	23:13	73-128	10.1	BDL	10.0	101
1,2-Dichloropropane	11/14/2019	23:13	78-122	10.3	BDL	10.0	103
1,3,5-Trimethylbenzene	11/14/2019	23:13	75-124	11.6	BDL	10.0	116
1,3-Dichlorobenzene	11/14/2019	23:13	80-119	10.6	BDL	10.0	106
1,3-Dichloropropane	11/14/2019	23:13	80-119	10.4	BDL	10.0	104
1,4-Dichlorobenzene	11/14/2019	23:13	79-118	10.2	BDL	10.0	102
2,2-Dichloropropane	11/14/2019	23:13	60-139	9.88	BDL	10.0	99
2-Butanone	11/14/2019	23:13	56-143	125	BDL	100	125
2-Chlorotoluene	11/14/2019	23:13	79-122	11.0	BDL	10.0	110
2-Hexanone	11/14/2019	23:13	57-139	127	BDL	100	127
4-Chlorotoluene	11/14/2019	23:13	78-122	11.0	BDL	10.0	110
4-Methyl-2-pentanone	11/14/2019	23:13	67-130	120	BDL	100	120
Acetone	11/14/2019	23:13	39-160	123	BDL	100	123
Benzene	11/14/2019	23:13	79-120	10.7	BDL	10.0	107
Bromobenzene	11/14/2019	23:13	80-120	10.5	BDL	10.0	105
Bromochloromethane	11/14/2019	23:13	78-123	9.88	BDL	10.0	99
Bromodichloromethane	11/14/2019	23:13	79-125	10.2	BDL	10.0	102

CT LABORATORIES
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3A

Sample Description

DPT-002

WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 166500 Sample No.: 358375 Parent Sample No.: 356207

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Bromoform	11/14/2019	23:13	66-130	9.75	BDL	10.0	98	
Bromomethane	11/14/2019	23:13	53-141	10.6	BDL	10.0	106	
Carbon disulfide	11/14/2019	23:13	64-133	23.1	BDL	20.0	116	
Carbon tetrachloride	11/14/2019	23:13	72-136	11.1	BDL	10.0	111	
Chlorobenzene	11/14/2019	23:13	82-118	10.5	BDL	10.0	105	
Chloroethane	11/14/2019	23:13	60-138	10.2	BDL	10.0	102	
Chloroform	11/14/2019	23:13	79-124	10.1	BDL	10.0	101	
Chloromethane	11/14/2019	23:13	50-139	10.3	BDL	10.0	103	
cis-1,2-Dichloroethene	11/14/2019	23:13	78-123	11.6	0.99	10.0	106	
cis-1,3-Dichloropropene	11/14/2019	23:13	75-124	9.98	BDL	10.0	100	
Dibromochloromethane	11/14/2019	23:13	74-126	9.86	BDL	10.0	99	
Dibromomethane	11/14/2019	23:13	79-123	10.4	BDL	10.0	104	
Dichlorodifluoromethane	11/14/2019	23:13	32-152	12.2	BDL	10.0	122	
Ethylbenzene	11/14/2019	23:13	79-121	11.6	BDL	10.0	116	
Freon 113	11/14/2019	23:13	70-136	24.5	BDL	20.0	122	
Hexachlorobutadiene	11/14/2019	23:13	66-134	11.1	BDL	10.0	111	
Isopropylbenzene	11/14/2019	23:13	72-131	11.8	BDL	10.0	118	
m & p-Xylene	11/14/2019	23:13	80-121	22.9	BDL	20.0	114	
Methylene chloride	11/14/2019	23:13	74-124	9.78	BDL	10.0	98	
Naphthalene	11/14/2019	23:13	61-128	12.2	BDL	10.0	122	
n-Butylbenzene	11/14/2019	23:13	75-128	12.3	BDL	10.0	123	
n-Propylbenzene	11/14/2019	23:13	76-126	12.2	BDL	10.0	122	
o-Xylene	11/14/2019	23:13	78-122	10.8	BDL	10.0	108	
p-Isopropyltoluene	11/14/2019	23:13	77-127	12.1	BDL	10.0	121	
sec-Butylbenzene	11/14/2019	23:13	77-126	12.8	BDL	10.0	128	*FAIL*
Styrene	11/14/2019	23:13	78-123	10.8	BDL	10.0	108	
tert-Butylbenzene	11/14/2019	23:13	78-124	11.8	BDL	10.0	118	
Tetrachloroethene	11/14/2019	23:13	74-129	10.9	BDL	10.0	109	
Toluene	11/14/2019	23:13	80-121	11.5	0.71	10.0	108	
trans-1,2-Dichloroethene	11/14/2019	23:13	75-124	10.7	BDL	10.0	107	
trans-1,3-Dichloropropene	11/14/2019	23:13	73-127	9.71	BDL	10.0	97	

CT LABORATORIES
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3A

Sample Description

WATER VOLATILE MATRIX SPIKE RECOVERY

DPT-002

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 166500 Sample No.: 358375 Parent Sample No.: 356207

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Trichloroethene	11/14/2019	23:13	79-123	44.0	29	10.0	150	*FAIL*
Trichlorofluoromethane	11/14/2019	23:13	65-141	11.6	BDL	10.0	116	
Vinyl acetate	11/14/2019	23:13	54-146	109	BDL	100	109	
Vinyl chloride	11/14/2019	23:13	58-137	11.8	BDL	10.0	118	

Spike Recovery: 2 out of 66 outside QC limits

CT LABORATORIES
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3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Sample Description: **47WW25R-35**

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/L

Analytical Run #: 166501 | Sample No.: 358637 | Parent Sample No.: 356227

Analytical Prep Batch #: 0 | Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,1,1,2-Tetrachloroethane	11/15/2019	14:11	78-124	23700	BDL	20000	118	
1,1,1-Trichloroethane	11/15/2019	14:11	74-131	24200	BDL	20000	121	
1,1,2,2-Tetrachloroethane	11/15/2019	14:11	71-121	25000	BDL	20000	125	*FAIL*
1,1,2-Trichloroethane	11/15/2019	14:11	80-119	25300	BDL	20000	126	*FAIL*
1,1-Dichloroethane	11/15/2019	14:11	77-125	22500	BDL	20000	112	
1,1-Dichloroethene	11/15/2019	14:11	71-131	22700	BDL	20000	114	
1,1-Dichloropropene	11/15/2019	14:11	79-125	23900	BDL	20000	120	
1,2,3-Trichlorobenzene	11/15/2019	14:11	69-129	26100	BDL	20000	130	*FAIL*
1,2,3-Trichloropropane	11/15/2019	14:11	73-122	24700	BDL	20000	124	*FAIL*
1,2,4-Trichlorobenzene	11/15/2019	14:11	69-130	25500	BDL	20000	128	
1,2,4-Trimethylbenzene	11/15/2019	14:11	76-124	25400	BDL	20000	127	*FAIL*
1,2-Dibromo-3-chloropropane	11/15/2019	14:11	62-128	25100	BDL	20000	126	
1,2-Dibromoethane	11/15/2019	14:11	77-121	25700	BDL	20000	128	*FAIL*
1,2-Dichlorobenzene	11/15/2019	14:11	80-119	23900	BDL	20000	120	*FAIL*
1,2-Dichloroethane	11/15/2019	14:11	73-128	23400	BDL	20000	117	
1,2-Dichloropropane	11/15/2019	14:11	78-122	23500	BDL	20000	118	
1,3,5-Trimethylbenzene	11/15/2019	14:11	75-124	25900	BDL	20000	130	*FAIL*
1,3-Dichlorobenzene	11/15/2019	14:11	80-119	24200	BDL	20000	121	*FAIL*
1,3-Dichloropropane	11/15/2019	14:11	80-119	24300	BDL	20000	122	*FAIL*
1,4-Dichlorobenzene	11/15/2019	14:11	79-118	23900	BDL	20000	120	*FAIL*
2,2-Dichloropropane	11/15/2019	14:11	60-139	25100	BDL	20000	126	
2-Butanone	11/15/2019	14:11	56-143	284000	BDL	200000	142	
2-Chlorotoluene	11/15/2019	14:11	79-122	24200	BDL	20000	121	
2-Hexanone	11/15/2019	14:11	57-139	288000	BDL	200000	144	*FAIL*
4-Chlorotoluene	11/15/2019	14:11	78-122	25000	BDL	20000	125	*FAIL*
4-Methyl-2-pentanone	11/15/2019	14:11	67-130	277000	BDL	200000	138	*FAIL*
Acetone	11/15/2019	14:11	39-160	294000	BDL	200000	147	
Benzene	11/15/2019	14:11	79-120	23900	BDL	20000	120	
Bromobenzene	11/15/2019	14:11	80-120	23300	BDL	20000	116	
Bromochloromethane	11/15/2019	14:11	78-123	21200	BDL	20000	106	
Bromodichloromethane	11/15/2019	14:11	79-125	23900	BDL	20000	120	

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3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Sample Description: **47WW25R-35**

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/L

Analytical Run #: 166501 | Sample No.: 358637 | Parent Sample No.: 356227

Analytical Prep Batch #: 0 | Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Bromoform	11/15/2019	14:11	66-130	22900	BDL	20000	114	
Bromomethane	11/15/2019	14:11	53-141	24400	BDL	20000	122	
Carbon disulfide	11/15/2019	14:11	64-133	49500	BDL	40000	124	
Carbon tetrachloride	11/15/2019	14:11	72-136	24600	BDL	20000	123	
Chlorobenzene	11/15/2019	14:11	82-118	23900	BDL	20000	120	*FAIL*
Chloroethane	11/15/2019	14:11	60-138	23000	BDL	20000	115	
Chloroform	11/15/2019	14:11	79-124	22900	BDL	20000	114	
Chloromethane	11/15/2019	14:11	50-139	22600	BDL	20000	113	
cis-1,2-Dichloroethene	11/15/2019	14:11	78-123	25700	2100	20000	118	
cis-1,3-Dichloropropene	11/15/2019	14:11	75-124	24800	BDL	20000	124	
Dibromochloromethane	11/15/2019	14:11	74-126	22800	BDL	20000	114	
Dibromomethane	11/15/2019	14:11	79-123	23300	BDL	20000	116	
Dichlorodifluoromethane	11/15/2019	14:11	32-152	25900	BDL	20000	130	
Ethylbenzene	11/15/2019	14:11	79-121	25400	BDL	20000	127	*FAIL*
Freon 113	11/15/2019	14:11	70-136	51400	BDL	40000	128	
Hexachlorobutadiene	11/15/2019	14:11	66-134	25900	BDL	20000	130	
Isopropylbenzene	11/15/2019	14:11	72-131	26000	BDL	20000	130	
m & p-Xylene	11/15/2019	14:11	80-121	51100	BDL	40000	128	*FAIL*
Methylene chloride	11/15/2019	14:11	74-124	22000	BDL	20000	110	
Naphthalene	11/15/2019	14:11	61-128	27800	BDL	20000	139	*FAIL*
n-Butylbenzene	11/15/2019	14:11	75-128	27700	BDL	20000	138	*FAIL*
n-Propylbenzene	11/15/2019	14:11	76-126	26500	BDL	20000	132	*FAIL*
o-Xylene	11/15/2019	14:11	78-122	24400	BDL	20000	122	
p-Isopropyltoluene	11/15/2019	14:11	77-127	26800	BDL	20000	134	*FAIL*
sec-Butylbenzene	11/15/2019	14:11	77-126	27500	BDL	20000	138	*FAIL*
Styrene	11/15/2019	14:11	78-123	25400	BDL	20000	127	*FAIL*
tert-Butylbenzene	11/15/2019	14:11	78-124	25500	BDL	20000	128	*FAIL*
Tetrachloroethene	11/15/2019	14:11	74-129	23600	BDL	20000	118	
Toluene	11/15/2019	14:11	80-121	24200	BDL	20000	121	
trans-1,2-Dichloroethene	11/15/2019	14:11	75-124	23700	BDL	20000	118	
trans-1,3-Dichloropropene	11/15/2019	14:11	73-127	24700	BDL	20000	124	

CT LABORATORIES
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3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Sample Description

47WW25R-35

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 166501 Sample No.: 358637 Parent Sample No.: 356227

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Trichloroethene	11/15/2019	14:11	79-123	150000	130000	20000	100
Trichlorofluoromethane	11/15/2019	14:11	65-141	25000	BDL	20000	125
Vinyl acetate	11/15/2019	14:11	54-146	278000	BDL	200000	139
Vinyl chloride	11/15/2019	14:11	58-137	24800	BDL	20000	124

Spike Recovery: 24 out of 66 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

DPT-002

WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 166500 Sample No.: 358376 Parent Sample No.: 358375

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
1,1,1,2-Tetrachloroethane	11/14/2019	23:42	10.2	10.0	102	1	78-124	20
1,1,1-Trichloroethane	11/14/2019	23:42	11.4	10.0	114	6	74-131	20
1,1,2,2-Tetrachloroethane	11/14/2019	23:42	10.9	10.0	109	3	71-121	20
1,1,2-Trichloroethane	11/14/2019	23:42	10.4	10.0	104	1	80-119	20
1,1-Dichloroethane	11/14/2019	23:42	10.5	10.0	105	2	77-125	20
1,1-Dichloroethene	11/14/2019	23:42	11.4	10.0	114	6	71-131	20
1,1-Dichloropropene	11/14/2019	23:42	11.5	10.0	115	6	79-125	20
1,2,3-Trichlorobenzene	11/14/2019	23:42	11.3	10.0	113	1	69-129	20
1,2,3-Trichloropropane	11/14/2019	23:42	10.9	10.0	109	7	73-122	20
1,2,4-Trichlorobenzene	11/14/2019	23:42	11.6	10.0	116	4	69-130	20
1,2,4-Trimethylbenzene	11/14/2019	23:42	11.6	10.0	116	1	76-124	20
1,2-Dibromo-3-chloropropane	11/14/2019	23:42	11.3	10.0	113	4	62-128	20
1,2-Dibromoethane	11/14/2019	23:42	11.2	10.0	112	3	77-121	20
1,2-Dichlorobenzene	11/14/2019	23:42	10.8	10.0	108	3	80-119	20
1,2-Dichloroethane	11/14/2019	23:42	10.8	10.0	108	7	73-128	20
1,2-Dichloropropane	11/14/2019	23:42	10.6	10.0	106	3	78-122	20
1,3,5-Trimethylbenzene	11/14/2019	23:42	12.0	10.0	120	4	75-124	20
1,3-Dichlorobenzene	11/14/2019	23:42	10.9	10.0	109	3	80-119	20
1,3-Dichloropropane	11/14/2019	23:42	10.3	10.0	103	1	80-119	20
1,4-Dichlorobenzene	11/14/2019	23:42	10.8	10.0	108	6	79-118	20
2,2-Dichloropropane	11/14/2019	23:42	9.93	10.0	99	1	60-139	20
2-Butanone	11/14/2019	23:42	124	100	124	0	56-143	20
2-Chlorotoluene	11/14/2019	23:42	11.3	10.0	113	3	79-122	20
2-Hexanone	11/14/2019	23:42	128	100	128	1	57-139	20
4-Chlorotoluene	11/14/2019	23:42	11.6	10.0	116	5	78-122	20
4-Methyl-2-pentanone	11/14/2019	23:42	123	100	123	2	67-130	20
Acetone	11/14/2019	23:42	129	100	129	5	39-160	20
Benzene	11/14/2019	23:42	11.3	10.0	113	5	79-120	20
Bromobenzene	11/14/2019	23:42	10.8	10.0	108	3	80-120	20
Bromochloromethane	11/14/2019	23:42	10.1	10.0	101	2	78-123	20
Bromodichloromethane	11/14/2019	23:42	10.7	10.0	107	5	79-125	20

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

DPT-002

WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 166500 Sample No.: 358376 Parent Sample No.: 358375

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Bromoform	11/14/2019	23:42	9.58	10.0	96	2	66-130	20	
Bromomethane	11/14/2019	23:42	12.0	10.0	120	13	53-141	20	
Carbon disulfide	11/14/2019	23:42	24.3	20.0	122	5	64-133	20	
Carbon tetrachloride	11/14/2019	23:42	11.5	10.0	115	4	72-136	20	
Chlorobenzene	11/14/2019	23:42	10.7	10.0	107	1	82-118	20	
Chloroethane	11/14/2019	23:42	11.3	10.0	113	10	60-138	20	
Chloroform	11/14/2019	23:42	10.4	10.0	104	3	79-124	20	
Chloromethane	11/14/2019	23:42	11.0	10.0	110	7	50-139	20	
cis-1,2-Dichloroethene	11/14/2019	23:42	11.7	10.0	107	1	78-123	20	
cis-1,3-Dichloropropene	11/14/2019	23:42	10.3	10.0	103	4	75-124	20	
Dibromochloromethane	11/14/2019	23:42	10.3	10.0	103	4	74-126	20	
Dibromomethane	11/14/2019	23:42	10.4	10.0	104	0	79-123	20	
Dichlorodifluoromethane	11/14/2019	23:42	12.9	10.0	129	6	32-152	20	
Ethylbenzene	11/14/2019	23:42	11.8	10.0	118	2	79-121	20	
Freon 113	11/14/2019	23:42	24.6	20.0	123	1	70-136	20	
Hexachlorobutadiene	11/14/2019	23:42	12.0	10.0	120	8	66-134	20	
Isopropylbenzene	11/14/2019	23:42	12.2	10.0	122	3	72-131	20	
m & p-Xylene	11/14/2019	23:42	23.8	20.0	119	4	80-121	20	
Methylene chloride	11/14/2019	23:42	10.3	10.0	103	5	74-124	20	
Naphthalene	11/14/2019	23:42	12.5	10.0	125	3	61-128	20	
n-Butylbenzene	11/14/2019	23:42	12.9	10.0	129	4	75-128	20	*FAIL*
n-Propylbenzene	11/14/2019	23:42	12.3	10.0	123	1	76-126	20	
o-Xylene	11/14/2019	23:42	11.4	10.0	114	5	78-122	20	
p-Isopropyltoluene	11/14/2019	23:42	12.5	10.0	125	3	77-127	20	
sec-Butylbenzene	11/14/2019	23:42	13.0	10.0	130	2	77-126	20	*FAIL*
Styrene	11/14/2019	23:42	11.2	10.0	112	4	78-123	20	
tert-Butylbenzene	11/14/2019	23:42	12.3	10.0	123	5	78-124	20	
Tetrachloroethene	11/14/2019	23:42	11.4	10.0	114	4	74-129	20	
Toluene	11/14/2019	23:42	11.8	10.0	111	3	80-121	20	
trans-1,2-Dichloroethene	11/14/2019	23:42	10.7	10.0	107	0	75-124	20	
trans-1,3-Dichloropropene	11/14/2019	23:42	10.2	10.0	102	5	73-127	20	

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DPT-002

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 166500 Sample No.: 358376 Parent Sample No.: 358375

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Trichloroethene	11/14/2019	23:42	35.1	10.0	61	23	79-123	20	*FAIL*
Trichlorofluoromethane	11/14/2019	23:42	12.3	10.0	123	6	65-141	20	
Vinyl acetate	11/14/2019	23:42	117	100	117	7	54-146	20	
Vinyl chloride	11/14/2019	23:42	12.1	10.0	121	2	58-137	20	

RPD or Spike Recovery: 3 out of 66 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Sample Description: **47WW25R-35**

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 166501 Sample No.: 358666 Parent Sample No.: 358637

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
1,1,1,2-Tetrachloroethane	11/15/2019	14:40	23300	20000	116	2	78-124	20	
1,1,1-Trichloroethane	11/15/2019	14:40	23800	20000	119	2	74-131	20	
1,1,2,2-Tetrachloroethane	11/15/2019	14:40	25500	20000	128	2	71-121	20	*FAIL*
1,1,2-Trichloroethane	11/15/2019	14:40	24700	20000	124	2	80-119	20	*FAIL*
1,1-Dichloroethane	11/15/2019	14:40	23000	20000	115	2	77-125	20	
1,1-Dichloroethene	11/15/2019	14:40	23600	20000	118	4	71-131	20	
1,1-Dichloropropene	11/15/2019	14:40	24600	20000	123	3	79-125	20	
1,2,3-Trichlorobenzene	11/15/2019	14:40	27000	20000	135	4	69-129	20	*FAIL*
1,2,3-Trichloropropane	11/15/2019	14:40	25100	20000	126	2	73-122	20	*FAIL*
1,2,4-Trichlorobenzene	11/15/2019	14:40	26700	20000	134	5	69-130	20	*FAIL*
1,2,4-Trimethylbenzene	11/15/2019	14:40	26400	20000	132	4	76-124	20	*FAIL*
1,2-Dibromo-3-chloropropane	11/15/2019	14:40	25400	20000	127	1	62-128	20	
1,2-Dibromoethane	11/15/2019	14:40	25100	20000	126	2	77-121	20	*FAIL*
1,2-Dichlorobenzene	11/15/2019	14:40	2440	2000	122	163	80-119	20	*FAIL*
1,2-Dichloroethane	11/15/2019	14:40	2360	2000	118	163	73-128	20	*FAIL*
1,2-Dichloropropane	11/15/2019	14:40	23900	20000	120	2	78-122	20	
1,3,5-Trimethylbenzene	11/15/2019	14:40	26500	20000	132	2	75-124	20	*FAIL*
1,3-Dichlorobenzene	11/15/2019	14:40	24800	20000	124	2	80-119	20	*FAIL*
1,3-Dichloropropane	11/15/2019	14:40	23800	20000	119	2	80-119	20	
1,4-Dichlorobenzene	11/15/2019	14:40	24500	20000	122	2	79-118	20	*FAIL*
2,2-Dichloropropane	11/15/2019	14:40	24400	20000	122	3	60-139	20	
2-Butanone	11/15/2019	14:40	295000	200000	148	4	56-143	20	*FAIL*
2-Chlorotoluene	11/15/2019	14:40	25000	20000	125	3	79-122	20	*FAIL*
2-Hexanone	11/15/2019	14:40	289000	200000	144	0	57-139	20	*FAIL*
4-Chlorotoluene	11/15/2019	14:40	25800	20000	129	3	78-122	20	*FAIL*
4-Methyl-2-pentanone	11/15/2019	14:40	276000	200000	138	0	67-130	20	*FAIL*
Acetone	11/15/2019	14:40	295000	200000	148	0	39-160	20	
Benzene	11/15/2019	14:40	24200	20000	121	1	79-120	20	*FAIL*
Bromobenzene	11/15/2019	14:40	23400	20000	117	0	80-120	20	
Bromochloromethane	11/15/2019	14:40	21900	20000	110	3	78-123	20	
Bromodichloromethane	11/15/2019	14:40	23000	20000	115	4	79-125	20	

CT LABORATORIES
delivering more than data from your environmental analyses

3A

WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Sample Description: **47WW25R-35**

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 166501 Sample No.: 358666 Parent Sample No.: 358637

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Bromoform	11/15/2019	14:40	22800	20000	114	0	66-130	20	
Bromomethane	11/15/2019	14:40	22800	20000	114	7	53-141	20	
Carbon disulfide	11/15/2019	14:40	51000	40000	128	3	64-133	20	
Carbon tetrachloride	11/15/2019	14:40	23600	20000	118	4	72-136	20	
Chlorobenzene	11/15/2019	14:40	24000	20000	120	0	82-118	20	*FAIL*
Chloroethane	11/15/2019	14:40	23100	20000	116	0	60-138	20	
Chloroform	11/15/2019	14:40	22600	20000	113	1	79-124	20	
Chloromethane	11/15/2019	14:40	23200	20000	116	3	50-139	20	
cis-1,2-Dichloroethene	11/15/2019	14:40	2610	2000	26	163	78-123	20	*FAIL*
cis-1,3-Dichloropropene	11/15/2019	14:40	24400	20000	122	2	75-124	20	
Dibromochloromethane	11/15/2019	14:40	23700	20000	118	4	74-126	20	
Dibromomethane	11/15/2019	14:40	23100	20000	116	0	79-123	20	
Dichlorodifluoromethane	11/15/2019	14:40	25600	20000	128	1	32-152	20	
Ethylbenzene	11/15/2019	14:40	25400	20000	127	0	79-121	20	*FAIL*
Freon 113	11/15/2019	14:40	53000	40000	132	3	70-136	20	
Hexachlorobutadiene	11/15/2019	14:40	26200	20000	131	1	66-134	20	
Isopropylbenzene	11/15/2019	14:40	26100	20000	130	1	72-131	20	
m & p-Xylene	11/15/2019	14:40	50900	40000	127	0	80-121	20	*FAIL*
Methylene chloride	11/15/2019	14:40	22000	20000	110	0	74-124	20	
Naphthalene	11/15/2019	14:40	28900	20000	144	4	61-128	20	*FAIL*
n-Butylbenzene	11/15/2019	14:40	28000	20000	140	1	75-128	20	*FAIL*
n-Propylbenzene	11/15/2019	14:40	26800	20000	134	1	76-126	20	*FAIL*
o-Xylene	11/15/2019	14:40	24000	20000	120	2	78-122	20	
p-Isopropyltoluene	11/15/2019	14:40	27400	20000	137	2	77-127	20	*FAIL*
sec-Butylbenzene	11/15/2019	14:40	28500	20000	142	4	77-126	20	*FAIL*
Styrene	11/15/2019	14:40	25400	20000	127	0	78-123	20	*FAIL*
tert-Butylbenzene	11/15/2019	14:40	26400	20000	132	4	78-124	20	*FAIL*
Tetrachloroethene	11/15/2019	14:40	23600	20000	118	0	74-129	20	
Toluene	11/15/2019	14:40	24200	20000	121	0	80-121	20	
trans-1,2-Dichloroethene	11/15/2019	14:40	23800	20000	119	1	75-124	20	
trans-1,3-Dichloropropene	11/15/2019	14:40	24700	20000	124	0	73-127	20	

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

47WW25R-35

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/L

Analytical Run #: 166501 Sample No.: 358666 Parent Sample No.: 358637

Analytical Prep Batch #: 0 Analytical Preparation Date/Time:

ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Trichloroethene	11/15/2019	14:40	149000	20000	95	0	79-123	20
Trichlorofluoromethane	11/15/2019	14:40	24900	20000	124	1	65-141	20
Vinyl acetate	11/15/2019	14:40	276000	200000	138	1	54-146	20
Vinyl chloride	11/15/2019	14:40	25400	20000	127	3	58-137	20

RPD or Spike Recovery: 29 out of 66 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

LCS

WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Sample No.: 358372
SDG No.: 149511
Analytical Method: EPA 8260C
Concentration Units: ug/L

Sample No.: 358372
Parent Sample No.: 0
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
Analytical Run #: 166500
ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	11/14/2019	13:15	78-124	9.89		10.0	99
1,1,1-Trichloroethane	11/14/2019	13:15	74-131	10.2		10.0	102
1,1,2,2-Tetrachloroethane	11/14/2019	13:15	71-121	9.77		10.0	98
1,1,2-Trichloroethane	11/14/2019	13:15	80-119	9.56		10.0	96
1,1-Dichloroethane	11/14/2019	13:15	77-125	9.85		10.0	98
1,1-Dichloroethene	11/14/2019	13:15	71-131	9.97		10.0	100
1,1-Dichloropropene	11/14/2019	13:15	79-125	10.3		10.0	103
1,2,3-Trichlorobenzene	11/14/2019	13:15	69-129	10.8		10.0	108
1,2,3-Trichloropropane	11/14/2019	13:15	73-122	9.96		10.0	100
1,2,4-Trichlorobenzene	11/14/2019	13:15	69-130	11.1		10.0	111
1,2,4-Trimethylbenzene	11/14/2019	13:15	76-124	11.0		10.0	110
1,2-Dibromo-3-chloropropane	11/14/2019	13:15	62-128	10.3		10.0	103
1,2-Dibromoethane	11/14/2019	13:15	77-121	10.2		10.0	102
1,2-Dichlorobenzene	11/14/2019	13:15	80-119	10.4		10.0	104
1,2-Dichloroethane	11/14/2019	13:15	73-128	9.74		10.0	97
1,2-Dichloropropane	11/14/2019	13:15	78-122	9.79		10.0	98
1,3,5-Trimethylbenzene	11/14/2019	13:15	75-124	11.2		10.0	112
1,3-Dichlorobenzene	11/14/2019	13:15	80-119	10.3		10.0	103
1,3-Dichloropropane	11/14/2019	13:15	80-119	9.72		10.0	97
1,4-Dichlorobenzene	11/14/2019	13:15	79-118	10.2		10.0	102
2,2-Dichloropropane	11/14/2019	13:15	60-139	11.3		10.0	113
2-Butanone	11/14/2019	13:15	56-143	89.2		100	89
2-Chlorotoluene	11/14/2019	13:15	79-122	10.7		10.0	107
2-Hexanone	11/14/2019	13:15	57-139	97.4		100	97
4-Chlorotoluene	11/14/2019	13:15	78-122	10.6		10.0	106
4-Methyl-2-pentanone	11/14/2019	13:15	67-130	99.0		100	99
Acetone	11/14/2019	13:15	39-160	88.5		100	88
Benzene	11/14/2019	13:15	79-120	10.2		10.0	102

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Sample No.: 358372 | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/L

Sample No.: 358372 | Parent Sample No.: 0

Analytical Prep Batch #: 0 | Analytical Preparation Date/Time:

Analytical Run #: 166500 | ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Bromobenzene	11/14/2019	13:15	80-120	9.76		10.0	98
Bromochloromethane	11/14/2019	13:15	78-123	9.07		10.0	91
Bromodichloromethane	11/14/2019	13:15	79-125	9.69		10.0	97
Bromoform	11/14/2019	13:15	66-130	9.28		10.0	93
Bromomethane	11/14/2019	13:15	53-141	9.76		10.0	98
Carbon disulfide	11/14/2019	13:15	64-133	21.6		20.0	108
Carbon tetrachloride	11/14/2019	13:15	72-136	10.8		10.0	108
Chlorobenzene	11/14/2019	13:15	82-118	10.1		10.0	101
Chloroethane	11/14/2019	13:15	60-138	9.68		10.0	97
Chloroform	11/14/2019	13:15	79-124	9.53		10.0	95
Chloromethane	11/14/2019	13:15	50-139	9.58		10.0	96
cis-1,2-Dichloroethene	11/14/2019	13:15	78-123	9.68		10.0	97
cis-1,3-Dichloropropene	11/14/2019	13:15	75-124	10.4		10.0	104
Dibromochloromethane	11/14/2019	13:15	74-126	9.65		10.0	96
Dibromomethane	11/14/2019	13:15	79-123	9.98		10.0	100
Dichlorodifluoromethane	11/14/2019	13:15	32-152	11.0		10.0	110
Ethylbenzene	11/14/2019	13:15	79-121	10.7		10.0	107
Freon 113	11/14/2019	13:15	70-136	22.2		20.0	111
Hexachlorobutadiene	11/14/2019	13:15	66-134	11.1		10.0	111
Isopropylbenzene	11/14/2019	13:15	72-131	11.3		10.0	113
m & p-Xylene	11/14/2019	13:15	80-121	21.6		20.0	108
Methylene chloride	11/14/2019	13:15	74-124	9.27		10.0	93
Naphthalene	11/14/2019	13:15	61-128	10.9		10.0	109
n-Butylbenzene	11/14/2019	13:15	75-128	12.0		10.0	120
n-Propylbenzene	11/14/2019	13:15	76-126	11.5		10.0	115
o-Xylene	11/14/2019	13:15	78-122	10.2		10.0	102
p-Isopropyltoluene	11/14/2019	13:15	77-127	11.9		10.0	119
sec-Butylbenzene	11/14/2019	13:15	77-126	12.1		10.0	121

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

LCS

WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Sample No.: 358372
SDG No.: 149511
Analytical Method: EPA 8260C
Concentration Units: ug/L

Sample No.: 358372
Parent Sample No.: 0
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
Analytical Run #: 166500
ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Styrene	11/14/2019	13:15	78-123	10.5		10.0	105
tert-Butylbenzene	11/14/2019	13:15	78-124	11.4		10.0	114
Tetrachloroethene	11/14/2019	13:15	74-129	10.3		10.0	103
Toluene	11/14/2019	13:15	80-121	10.2		10.0	102
trans-1,2-Dichloroethene	11/14/2019	13:15	75-124	10.0		10.0	100
trans-1,3-Dichloropropene	11/14/2019	13:15	73-127	10.4		10.0	104
Trichloroethene	11/14/2019	13:15	79-123	9.77		10.0	98
Trichlorofluoromethane	11/14/2019	13:15	65-141	10.7		10.0	107
Vinyl acetate	11/14/2019	13:15	54-146	113		100	113
Vinyl chloride	11/14/2019	13:15	58-137	10.1		10.0	101

Spike Recovery: 0 out of 66 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Sample No.: 358448 | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/L

Sample No.: 358448 | Parent Sample No.: 0

Analytical Prep Batch #: 0 | Analytical Preparation Date/Time:

Analytical Run #: 166501 | ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	11/15/2019	09:43	78-124	9.82		10.0	98
1,1,1-Trichloroethane	11/15/2019	09:43	74-131	10.7		10.0	107
1,1,2,2-Tetrachloroethane	11/15/2019	09:43	71-121	9.76		10.0	98
1,1,2-Trichloroethane	11/15/2019	09:43	80-119	9.64		10.0	96
1,1-Dichloroethane	11/15/2019	09:43	77-125	10.0		10.0	100
1,1-Dichloroethene	11/15/2019	09:43	71-131	10.9		10.0	109
1,1-Dichloropropene	11/15/2019	09:43	79-125	10.6		10.0	106
1,2,3-Trichlorobenzene	11/15/2019	09:43	69-129	10.5		10.0	105
1,2,3-Trichloropropane	11/15/2019	09:43	73-122	9.64		10.0	96
1,2,4-Trichlorobenzene	11/15/2019	09:43	69-130	11.1		10.0	111
1,2,4-Trimethylbenzene	11/15/2019	09:43	76-124	11.3		10.0	113
1,2-Dibromo-3-chloropropane	11/15/2019	09:43	62-128	9.12		10.0	91
1,2-Dibromoethane	11/15/2019	09:43	77-121	10.8		10.0	108
1,2-Dichlorobenzene	11/15/2019	09:43	80-119	10.3		10.0	103
1,2-Dichloroethane	11/15/2019	09:43	73-128	9.84		10.0	98
1,2-Dichloropropane	11/15/2019	09:43	78-122	9.68		10.0	97
1,3,5-Trimethylbenzene	11/15/2019	09:43	75-124	11.4		10.0	114
1,3-Dichlorobenzene	11/15/2019	09:43	80-119	10.5		10.0	105
1,3-Dichloropropane	11/15/2019	09:43	80-119	10.2		10.0	102
1,4-Dichlorobenzene	11/15/2019	09:43	79-118	10.4		10.0	104
2,2-Dichloropropane	11/15/2019	09:43	60-139	11.0		10.0	110
2-Butanone	11/15/2019	09:43	56-143	101		100	101
2-Chlorotoluene	11/15/2019	09:43	79-122	10.6		10.0	106
2-Hexanone	11/15/2019	09:43	57-139	99.4		100	99
4-Chlorotoluene	11/15/2019	09:43	78-122	10.9		10.0	109
4-Methyl-2-pentanone	11/15/2019	09:43	67-130	100		100	100
Acetone	11/15/2019	09:43	39-160	98.9		100	99
Benzene	11/15/2019	09:43	79-120	10.4		10.0	104

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Sample No.: 358448 | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/L

Sample No.: 358448 | Parent Sample No.: 0

Analytical Prep Batch #: 0 | Analytical Preparation Date/Time:

Analytical Run #: 166501 | ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Bromobenzene	11/15/2019	09:43	80-120	9.99		10.0	100
Bromochloromethane	11/15/2019	09:43	78-123	8.91		10.0	89
Bromodichloromethane	11/15/2019	09:43	79-125	9.85		10.0	98
Bromoform	11/15/2019	09:43	66-130	9.63		10.0	96
Bromomethane	11/15/2019	09:43	53-141	9.76		10.0	98
Carbon disulfide	11/15/2019	09:43	64-133	22.4		20.0	112
Carbon tetrachloride	11/15/2019	09:43	72-136	10.8		10.0	108
Chlorobenzene	11/15/2019	09:43	82-118	10.2		10.0	102
Chloroethane	11/15/2019	09:43	60-138	9.99		10.0	100
Chloroform	11/15/2019	09:43	79-124	9.70		10.0	97
Chloromethane	11/15/2019	09:43	50-139	10.3		10.0	103
cis-1,2-Dichloroethene	11/15/2019	09:43	78-123	10.2		10.0	102
cis-1,3-Dichloropropene	11/15/2019	09:43	75-124	10.4		10.0	104
Dibromochloromethane	11/15/2019	09:43	74-126	9.94		10.0	99
Dibromomethane	11/15/2019	09:43	79-123	10.2		10.0	102
Dichlorodifluoromethane	11/15/2019	09:43	32-152	11.1		10.0	111
Ethylbenzene	11/15/2019	09:43	79-121	11.0		10.0	110
Freon 113	11/15/2019	09:43	70-136	23.7		20.0	118
Hexachlorobutadiene	11/15/2019	09:43	66-134	11.4		10.0	114
Isopropylbenzene	11/15/2019	09:43	72-131	11.4		10.0	114
m & p-Xylene	11/15/2019	09:43	80-121	21.9		20.0	110
Methylene chloride	11/15/2019	09:43	74-124	9.42		10.0	94
Naphthalene	11/15/2019	09:43	61-128	10.5		10.0	105
n-Butylbenzene	11/15/2019	09:43	75-128	12.2		10.0	122
n-Propylbenzene	11/15/2019	09:43	76-126	11.8		10.0	118
o-Xylene	11/15/2019	09:43	78-122	10.2		10.0	102
p-Isopropyltoluene	11/15/2019	09:43	77-127	12.0		10.0	120
sec-Butylbenzene	11/15/2019	09:43	77-126	12.4		10.0	124

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

LCS

WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Sample No.: 358448
SDG No.: 149511
Analytical Method: EPA 8260C
Concentration Units: ug/L

Sample No.: 358448
Parent Sample No.: 0
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
Analytical Run #: 166501
ICAL Calibration #: W111219.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Styrene	11/15/2019	09:43	78-123	10.8		10.0	108
tert-Butylbenzene	11/15/2019	09:43	78-124	11.3		10.0	113
Tetrachloroethene	11/15/2019	09:43	74-129	10.5		10.0	105
Toluene	11/15/2019	09:43	80-121	10.4		10.0	104
trans-1,2-Dichloroethene	11/15/2019	09:43	75-124	10.2		10.0	102
trans-1,3-Dichloropropene	11/15/2019	09:43	73-127	10.2		10.0	102
Trichloroethene	11/15/2019	09:43	79-123	9.89		10.0	99
Trichlorofluoromethane	11/15/2019	09:43	65-141	11.3		10.0	113
Vinyl acetate	11/15/2019	09:43	54-146	113		100	113
Vinyl chloride	11/15/2019	09:43	58-137	10.9		10.0	109

Spike Recovery: 0 out of 66 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

Sample Description

LCS

WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Sample No.: 364668
SDG No.: 149511
Analytical Method: EPA 8260C
Concentration Units: mg/L

Sample No.: 364668
Parent Sample No.: 0
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
Analytical Run #: 167058
ICAL Calibration #: W112419.

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1-Dichloroethene	12/01/2019	14:04	71-131	1.01		1.00	101
1,2-Dichloroethane	12/01/2019	14:04	73-128	0.901		1.00	90
2-Butanone	12/01/2019	14:04	56-143	8.40		10.0	84
Benzene	12/01/2019	14:04	79-120	0.977		1.00	98
Carbon tetrachloride	12/01/2019	14:04	72-136	1.03		1.00	103
Chlorobenzene	12/01/2019	14:04	82-118	0.996		1.00	100
Chloroform	12/01/2019	14:04	79-124	0.959		1.00	96
Tetrachloroethene	12/01/2019	14:04	74-129	1.00		1.00	100
Trichloroethene	12/01/2019	14:04	79-123	0.925		1.00	92
Vinyl chloride	12/01/2019	14:04	58-137	1.03		1.00	103

Spike Recovery: 0 out of 10 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3A

WATER VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Sample No.: 367011
SDG No.: 149511
Analytical Method: EPA 8260C
Concentration Units: mg/L

Analytical Run #: 167058 Sample No.: 367011 Parent Sample No.: 364668
Analytical Prep Batch #: 0 Analytical Preparation Date/Time:
ICAL Calibration #: W112419.

Analyte	Analysis Date/Time	Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit (%R)	Control Limit (%RPD)
1,1-Dichloroethene	12/01/2019 19:02	1.01	1.01	1.00	101	0	71-131	20
1,2-Dichloroethane	12/01/2019 19:02	0.928	0.901	1.00	93	3	73-128	20
2-Butanone	12/01/2019 19:02	8.31	8.40	10.0	83	1	56-143	20
Benzene	12/01/2019 19:02	0.986	0.977	1.00	99	1	79-120	20
Carbon tetrachloride	12/01/2019 19:02	1.03	1.03	1.00	103	0	72-136	20
Chlorobenzene	12/01/2019 19:02	1.00	0.996	1.00	100	0	82-118	20
Chloroform	12/01/2019 19:02	0.926	0.959	1.00	93	4	79-124	20
Tetrachloroethene	12/01/2019 19:02	1.00	1.00	1.00	100	0	74-129	20
Trichloroethene	12/01/2019 19:02	0.927	0.925	1.00	93	0	79-123	20
Vinyl chloride	12/01/2019 19:02	1.01	1.03	1.00	101	2	58-137	20

RPD or Spike Recovery: 0 out of 10 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description: **DPT-009 (31-32)**

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Matrix: SOIL | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 166497 | Sample No.: 356995 | Parent Sample No.: 356181

Analytical Prep Batch #: 74482 | Analytical Preparation Date/Time: 11/12/2019 10:15

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,1,1,2-Tetrachloroethane	11/13/2019	03:28	78-125	8.58	BDL	9.98	86	
1,1,1-Trichloroethane	11/13/2019	03:28	73-130	11.1	BDL	9.98	111	
1,1,2,2-Tetrachloroethane	11/13/2019	03:28	70-124	8.28	BDL	9.98	83	
1,1,2-Trichloroethane	11/13/2019	03:28	78-121	8.48	BDL	9.98	85	
1,1-Dichloroethane	11/13/2019	03:28	76-125	10.7	BDL	9.98	107	
1,1-Dichloroethene	11/13/2019	03:28	70-131	11.7	BDL	9.98	117	
1,1-Dichloropropene	11/13/2019	03:28	76-125	11.3	BDL	9.98	113	
1,2,3-Trichlorobenzene	11/13/2019	03:28	66-130	2.39	BDL	9.98	24	*FAIL*
1,2,3-Trichloropropane	11/13/2019	03:28	73-125	10.4	1.18	9.98	92	
1,2,4-Trichlorobenzene	11/13/2019	03:28	67-129	3.29	BDL	9.98	33	*FAIL*
1,2,4-Trimethylbenzene	11/13/2019	03:28	75-123	7.98	BDL	9.98	80	
1,2-Dibromo-3-chloropropane	11/13/2019	03:28	61-132	5.09	BDL	9.98	51	*FAIL*
1,2-Dibromoethane	11/13/2019	03:28	78-122	7.98	BDL	9.98	80	
1,2-Dichlorobenzene	11/13/2019	03:28	78-121	6.09	BDL	9.98	61	*FAIL*
1,2-Dichloroethane	11/13/2019	03:28	73-128	9.18	BDL	9.98	92	
1,2-Dichloropropane	11/13/2019	03:28	76-123	9.78	BDL	9.98	98	
1,3,5-Trimethylbenzene	11/13/2019	03:28	73-124	8.38	BDL	9.98	84	
1,3-Dichlorobenzene	11/13/2019	03:28	77-121	6.58	BDL	9.98	66	*FAIL*
1,3-Dichloropropane	11/13/2019	03:28	77-121	8.18	BDL	9.98	82	
1,4-Dichlorobenzene	11/13/2019	03:28	75-120	6.68	BDL	9.98	67	*FAIL*
2,2-Dichloropropane	11/13/2019	03:28	67-133	11.6	0.422	9.98	112	
2-Butanone	11/13/2019	03:28	51-148	60.6	BDL	99.8	61	
2-Chlorotoluene	11/13/2019	03:28	75-122	8.48	BDL	9.98	85	
2-Hexanone	11/13/2019	03:28	53-145	68.7	BDL	99.8	69	
4-Chlorotoluene	11/13/2019	03:28	72-124	8.18	BDL	9.98	82	
4-Methyl-2-pentanone	11/13/2019	03:28	65-135	77.7	BDL	99.8	78	
Acetone	11/13/2019	03:28	36-164	56.0	BDL	99.8	56	
Benzene	11/13/2019	03:28	77-121	10.3	BDL	9.98	103	
Bromobenzene	11/13/2019	03:28	78-121	8.28	BDL	9.98	83	
Bromochloromethane	11/13/2019	03:28	78-125	9.78	BDL	9.98	98	
Bromodichloromethane	11/13/2019	03:28	75-127	9.18	BDL	9.98	92	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description

DPT-009 (31-32)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: SOIL SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 166497 Sample No.: 356995 Parent Sample No.: 356181

Analytical Prep Batch #: 74482 Analytical Preparation Date/Time: 11/12/2019 10:15

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Bromoform	11/13/2019	03:28	67-132	6.98	BDL	9.98	70	
Bromomethane	11/13/2019	03:28	53-143	14.4	BDL	9.98	144	*FAIL*
Carbon disulfide	11/13/2019	03:28	63-132	23.7	BDL	20.0	118	
Carbon tetrachloride	11/13/2019	03:28	70-135	11.5	BDL	9.98	115	
Chlorobenzene	11/13/2019	03:28	79-120	8.68	BDL	9.98	87	
Chloroethane	11/13/2019	03:28	59-139	11.3	BDL	9.98	113	
Chloroform	11/13/2019	03:28	78-123	10.4	BDL	9.98	104	
Chloromethane	11/13/2019	03:28	50-136	11.7	BDL	9.98	117	
cis-1,2-Dichloroethene	11/13/2019	03:28	77-123	10.2	BDL	9.98	102	
cis-1,3-Dichloropropene	11/13/2019	03:28	74-126	8.88	BDL	9.98	89	
Dibromochloromethane	11/13/2019	03:28	74-126	8.28	BDL	9.98	83	
Dibromomethane	11/13/2019	03:28	78-125	9.08	BDL	9.98	91	
Dichlorodifluoromethane	11/13/2019	03:28	29-149	14.0	BDL	9.98	140	
Ethylbenzene	11/13/2019	03:28	76-122	9.28	BDL	9.98	93	
Freon 113	11/13/2019	03:28	66-136	24.8	BDL	20.0	124	
Hexachlorobutadiene	11/13/2019	03:28	61-135	4.89	BDL	9.98	49	*FAIL*
Isopropylbenzene	11/13/2019	03:28	68-134	8.58	BDL	9.98	86	
m & p-Xylene	11/13/2019	03:28	77-124	17.7	BDL	20.0	88	
Methylene chloride	11/13/2019	03:28	70-128	11.3	BDL	9.98	113	
Naphthalene	11/13/2019	03:28	62-129	2.00	BDL	9.98	20	*FAIL*
n-Butylbenzene	11/13/2019	03:28	70-128	6.98	BDL	9.98	70	
n-Propylbenzene	11/13/2019	03:28	73-125	9.08	BDL	9.98	91	
o-Xylene	11/13/2019	03:28	77-123	8.38	BDL	9.98	84	
p-Isopropyltoluene	11/13/2019	03:28	73-127	8.08	BDL	9.98	81	
sec-Butylbenzene	11/13/2019	03:28	73-126	8.18	BDL	9.98	82	
Styrene	11/13/2019	03:28	76-124	7.28	BDL	9.98	73	*FAIL*
tert-Butylbenzene	11/13/2019	03:28	73-125	9.18	BDL	9.98	92	
Tetrachloroethene	11/13/2019	03:28	73-128	9.58	BDL	9.98	96	
Toluene	11/13/2019	03:28	77-121	9.98	BDL	9.98	100	
trans-1,2-Dichloroethene	11/13/2019	03:28	74-125	10.8	BDL	9.98	108	
trans-1,3-Dichloropropene	11/13/2019	03:28	71-130	8.08	BDL	9.98	81	

CT LABORATORIES
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3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description

DPT-009 (31-32)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: SOIL SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 166497 Sample No.: 356995 Parent Sample No.: 356181

Analytical Prep Batch #: 74482 Analytical Preparation Date/Time: 11/12/2019 10:15

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Trichloroethene	11/13/2019	03:28	77-123	11.0	BDL	9.98	110
Trichlorofluoromethane	11/13/2019	03:28	62-140	12.7	BDL	9.98	127
Vinyl acetate	11/13/2019	03:28	50-151	95.0	BDL	99.8	95
Vinyl chloride	11/13/2019	03:28	56-135	12.6	BDL	9.98	126

Spike Recovery: 10 out of 66 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description

DPT-006(30-31)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: SOIL SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 166498 Sample No.: 357000 Parent Sample No.: 356185

Analytical Prep Batch #: 74483 Analytical Preparation Date/Time: 11/12/2019 10:40

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,1,1,2-Tetrachloroethane	11/13/2019	18:21	78-125	7.45	BDL	8.38	89	
1,1,1-Trichloroethane	11/13/2019	18:21	73-130	8.54	BDL	8.38	102	
1,1,2,2-Tetrachloroethane	11/13/2019	18:21	70-124	7.62	BDL	8.38	91	
1,1,2-Trichloroethane	11/13/2019	18:21	78-121	7.96	BDL	8.38	95	
1,1-Dichloroethane	11/13/2019	18:21	76-125	8.29	BDL	8.38	99	
1,1-Dichloroethene	11/13/2019	18:21	70-131	8.71	BDL	8.38	104	
1,1-Dichloropropene	11/13/2019	18:21	76-125	8.21	BDL	8.38	98	
1,2,3-Trichlorobenzene	11/13/2019	18:21	66-130	3.85	BDL	8.38	46	*FAIL*
1,2,3-Trichloropropane	11/13/2019	18:21	73-125	9.63	BDL	8.38	115	
1,2,4-Trichlorobenzene	11/13/2019	18:21	67-129	4.02	BDL	8.38	48	*FAIL*
1,2,4-Trimethylbenzene	11/13/2019	18:21	75-123	6.70	BDL	8.38	80	
1,2-Dibromo-3-chloropropane	11/13/2019	18:21	61-132	6.28	BDL	8.38	75	
1,2-Dibromoethane	11/13/2019	18:21	78-122	7.45	BDL	8.38	89	
1,2-Dichlorobenzene	11/13/2019	18:21	78-121	6.28	BDL	8.38	75	*FAIL*
1,2-Dichloroethane	11/13/2019	18:21	73-128	7.96	BDL	8.38	95	
1,2-Dichloropropane	11/13/2019	18:21	76-123	8.12	BDL	8.38	97	
1,3,5-Trimethylbenzene	11/13/2019	18:21	73-124	6.95	BDL	8.38	83	
1,3-Dichlorobenzene	11/13/2019	18:21	77-121	6.28	BDL	8.38	75	*FAIL*
1,3-Dichloropropane	11/13/2019	18:21	77-121	7.79	BDL	8.38	93	
1,4-Dichlorobenzene	11/13/2019	18:21	75-120	6.28	BDL	8.38	75	
2,2-Dichloropropane	11/13/2019	18:21	67-133	8.79	BDL	8.38	105	
2-Butanone	11/13/2019	18:21	51-148	78.8	BDL	83.8	94	
2-Chlorotoluene	11/13/2019	18:21	75-122	7.04	BDL	8.38	84	
2-Hexanone	11/13/2019	18:21	53-145	82.7	BDL	83.8	99	
4-Chlorotoluene	11/13/2019	18:21	72-124	6.78	BDL	8.38	81	
4-Methyl-2-pentanone	11/13/2019	18:21	65-135	86.3	BDL	83.8	103	
Acetone	11/13/2019	18:21	36-164	72.3	29.4	83.8	51	
Benzene	11/13/2019	18:21	77-121	8.21	BDL	8.38	98	
Bromobenzene	11/13/2019	18:21	78-121	7.04	BDL	8.38	84	
Bromochloromethane	11/13/2019	18:21	78-125	8.46	BDL	8.38	101	
Bromodichloromethane	11/13/2019	18:21	75-127	7.87	BDL	8.38	94	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description: **DPT-006(30-31)**

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Matrix: SOIL | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 166498 | Sample No.: 357000 | Parent Sample No.: 356185

Analytical Prep Batch #: 74483 | Analytical Preparation Date/Time: 11/12/2019 10:40

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Bromoform	11/13/2019	18:21	67-132	7.20	BDL	8.38	86	
Bromomethane	11/13/2019	18:21	53-143	7.04	BDL	8.38	84	
Carbon disulfide	11/13/2019	18:21	63-132	17.7	BDL	16.8	105	
Carbon tetrachloride	11/13/2019	18:21	70-135	8.71	BDL	8.38	104	
Chlorobenzene	11/13/2019	18:21	79-120	7.20	BDL	8.38	86	
Chloroethane	11/13/2019	18:21	59-139	8.46	BDL	8.38	101	
Chloroform	11/13/2019	18:21	78-123	8.46	BDL	8.38	101	
Chloromethane	11/13/2019	18:21	50-136	9.30	BDL	8.38	111	
cis-1,2-Dichloroethene	11/13/2019	18:21	77-123	8.12	BDL	8.38	97	
cis-1,3-Dichloropropene	11/13/2019	18:21	74-126	7.71	BDL	8.38	92	
Dibromochloromethane	11/13/2019	18:21	74-126	7.37	BDL	8.38	88	
Dibromomethane	11/13/2019	18:21	78-125	8.38	BDL	8.38	100	
Dichlorodifluoromethane	11/13/2019	18:21	29-149	9.88	BDL	8.38	118	
Ethylbenzene	11/13/2019	18:21	76-122	7.45	BDL	8.38	89	
Freon 113	11/13/2019	18:21	66-136	19.3	BDL	16.8	115	
Hexachlorobutadiene	11/13/2019	18:21	61-135	5.70	BDL	8.38	68	
Isopropylbenzene	11/13/2019	18:21	68-134	7.45	BDL	8.38	89	
m & p-Xylene	11/13/2019	18:21	77-124	14.7	BDL	16.8	88	
Methylene chloride	11/13/2019	18:21	70-128	9.97	BDL	8.38	119	
Naphthalene	11/13/2019	18:21	62-129	3.60	BDL	8.38	43	*FAIL*
n-Butylbenzene	11/13/2019	18:21	70-128	6.45	BDL	8.38	77	
n-Propylbenzene	11/13/2019	18:21	73-125	6.87	BDL	8.38	82	
o-Xylene	11/13/2019	18:21	77-123	7.04	BDL	8.38	84	
p-Isopropyltoluene	11/13/2019	18:21	73-127	6.95	BDL	8.38	83	
sec-Butylbenzene	11/13/2019	18:21	73-126	7.04	BDL	8.38	84	
Styrene	11/13/2019	18:21	76-124	6.70	BDL	8.38	80	
tert-Butylbenzene	11/13/2019	18:21	73-125	7.29	BDL	8.38	87	
Tetrachloroethene	11/13/2019	18:21	73-128	8.29	BDL	8.38	99	
Toluene	11/13/2019	18:21	77-121	7.96	BDL	8.38	95	
trans-1,2-Dichloroethene	11/13/2019	18:21	74-125	8.04	BDL	8.38	96	
trans-1,3-Dichloropropene	11/13/2019	18:21	71-130	7.62	BDL	8.38	91	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE MATRIX SPIKE RECOVERY

DPT-006(30-31)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: SOIL SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 166498 Sample No.: 357000 Parent Sample No.: 356185

Analytical Prep Batch #: 74483 Analytical Preparation Date/Time: 11/12/2019 10:40

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Trichloroethene	11/13/2019	18:21	77-123	9.63	1.04	8.38	103
Trichlorofluoromethane	11/13/2019	18:21	62-140	9.38	BDL	8.38	112
Vinyl acetate	11/13/2019	18:21	50-151	72.0	BDL	83.8	86
Vinyl chloride	11/13/2019	18:21	56-135	9.38	BDL	8.38	112

Spike Recovery: 5 out of 66 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Sample Description

DPT-009 (31-32)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: SOIL SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 166497 Sample No.: 356996 Parent Sample No.: 356995

Analytical Prep Batch #: 74482 Analytical Preparation Date/Time: 11/12/2019 10:15

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
1,1,1,2-Tetrachloroethane	11/14/2019	15:35	11.8	13.0	91	6	78-125	20	
1,1,1-Trichloroethane	11/14/2019	15:35	13.2	13.0	102	8	73-130	20	
1,1,2,2-Tetrachloroethane	11/14/2019	15:35	15.0	13.0	115	33	70-124	20	*FAIL*
1,1,2-Trichloroethane	11/14/2019	15:35	13.1	13.0	101	17	78-121	20	
1,1-Dichloroethane	11/14/2019	15:35	12.7	13.0	98	9	76-125	20	
1,1-Dichloroethene	11/14/2019	15:35	13.1	13.0	101	15	70-131	20	
1,1-Dichloropropene	11/14/2019	15:35	13.2	13.0	102	10	76-125	20	
1,2,3-Trichlorobenzene	11/14/2019	15:35	8.16	13.0	63	90	66-130	20	*FAIL*
1,2,3-Trichloropropane	11/14/2019	15:35	17.4	13.0	125	25	73-125	20	*FAIL*
1,2,4-Trichlorobenzene	11/14/2019	15:35	9.59	13.0	74	77	67-129	20	*FAIL*
1,2,4-Trimethylbenzene	11/14/2019	15:35	13.6	13.0	105	27	75-123	20	*FAIL*
1,2-Dibromo-3-chloropropane	11/14/2019	15:35	13.5	13.0	104	68	61-132	20	*FAIL*
1,2-Dibromoethane	11/14/2019	15:35	12.8	13.0	98	21	78-122	20	*FAIL*
1,2-Dichlorobenzene	11/14/2019	15:35	12.4	13.0	95	45	78-121	20	*FAIL*
1,2-Dichloroethane	11/14/2019	15:35	12.8	13.0	98	7	73-128	20	
1,2-Dichloropropane	11/14/2019	15:35	13.3	13.0	102	5	76-123	20	
1,3,5-Trimethylbenzene	11/14/2019	15:35	14.2	13.0	109	27	73-124	20	*FAIL*
1,3-Dichlorobenzene	11/14/2019	15:35	12.7	13.0	98	39	77-121	20	*FAIL*
1,3-Dichloropropane	11/14/2019	15:35	13.0	13.0	100	20	77-121	20	
1,4-Dichlorobenzene	11/14/2019	15:35	13.1	13.0	101	40	75-120	20	*FAIL*
2,2-Dichloropropane	11/14/2019	15:35	13.7	13.0	102	9	67-133	20	
2-Butanone	11/14/2019	15:35	150	130	115	62	51-148	20	*FAIL*
2-Chlorotoluene	11/14/2019	15:35	13.7	13.0	105	22	75-122	20	*FAIL*
2-Hexanone	11/14/2019	15:35	162	130	125	58	53-145	20	*FAIL*
4-Chlorotoluene	11/14/2019	15:35	13.9	13.0	107	26	72-124	20	*FAIL*
4-Methyl-2-pentanone	11/14/2019	15:35	160	130	123	45	65-135	20	*FAIL*
Acetone	11/14/2019	15:35	141	130	108	64	36-164	20	*FAIL*
Benzene	11/14/2019	15:35	12.7	13.0	98	5	77-121	20	
Bromobenzene	11/14/2019	15:35	13.5	13.0	104	22	78-121	20	*FAIL*
Bromochloromethane	11/14/2019	15:35	13.5	13.0	104	6	78-125	20	
Bromodichloromethane	11/14/2019	15:35	13.0	13.0	100	8	75-127	20	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DPT-009 (31-32)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: SOIL SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 166497 Sample No.: 356996 Parent Sample No.: 356995

Analytical Prep Batch #: 74482 Analytical Preparation Date/Time: 11/12/2019 10:15

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Bromoform	11/14/2019	15:35	12.3	13.0	95	30	67-132	20	*FAIL*
Bromomethane	11/14/2019	15:35	9.72	13.0	75	63	53-143	20	*FAIL*
Carbon disulfide	11/14/2019	15:35	28.1	25.9	108	9	63-132	20	
Carbon tetrachloride	11/14/2019	15:35	13.5	13.0	104	10	70-135	20	
Chlorobenzene	11/14/2019	15:35	12.0	13.0	92	7	79-120	20	
Chloroethane	11/14/2019	15:35	13.2	13.0	102	10	59-139	20	
Chloroform	11/14/2019	15:35	12.8	13.0	98	5	78-123	20	
Chloromethane	11/14/2019	15:35	14.1	13.0	108	7	50-136	20	
cis-1,2-Dichloroethene	11/14/2019	15:35	12.4	13.0	95	6	77-123	20	
cis-1,3-Dichloropropene	11/14/2019	15:35	12.4	13.0	95	8	74-126	20	
Dibromochloromethane	11/14/2019	15:35	12.6	13.0	97	16	74-126	20	
Dibromomethane	11/14/2019	15:35	14.2	13.0	109	19	78-125	20	
Dichlorodifluoromethane	11/14/2019	15:35	14.9	13.0	115	20	29-149	20	
Ethylbenzene	11/14/2019	15:35	12.7	13.0	98	5	76-122	20	
Freon 113	11/14/2019	15:35	31.1	25.9	120	4	66-136	20	
Hexachlorobutadiene	11/14/2019	15:35	14.1	13.0	108	76	61-135	20	*FAIL*
Isopropylbenzene	11/14/2019	15:35	13.0	13.0	100	15	68-134	20	
m & p-Xylene	11/14/2019	15:35	25.5	25.9	98	11	77-124	20	
Methylene chloride	11/14/2019	15:35	15.0	13.0	115	3	70-128	20	
Naphthalene	11/14/2019	15:35	7.25	13.0	56	95	62-129	20	*FAIL*
n-Butylbenzene	11/14/2019	15:35	15.7	13.0	121	53	70-128	20	*FAIL*
n-Propylbenzene	11/14/2019	15:35	14.5	13.0	112	21	73-125	20	*FAIL*
o-Xylene	11/14/2019	15:35	12.4	13.0	95	13	77-123	20	
p-Isopropyltoluene	11/14/2019	15:35	15.3	13.0	118	37	73-127	20	*FAIL*
sec-Butylbenzene	11/14/2019	15:35	15.3	13.0	118	36	73-126	20	*FAIL*
Styrene	11/14/2019	15:35	11.9	13.0	92	23	76-124	20	*FAIL*
tert-Butylbenzene	11/14/2019	15:35	14.5	13.0	112	20	73-125	20	
Tetrachloroethene	11/14/2019	15:35	13.3	13.0	102	7	73-128	20	
Toluene	11/14/2019	15:35	12.4	13.0	95	4	77-121	20	
trans-1,2-Dichloroethene	11/14/2019	15:35	13.0	13.0	100	8	74-125	20	
trans-1,3-Dichloropropene	11/14/2019	15:35	12.7	13.0	98	19	71-130	20	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DPT-009 (31-32)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: SOIL SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 166497 Sample No.: 356996 Parent Sample No.: 356995

Analytical Prep Batch #: 74482 Analytical Preparation Date/Time: 11/12/2019 10:15

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Trichloroethene	11/14/2019	15:35	12.8	13.0	98	11	77-123	20
Trichlorofluoromethane	11/14/2019	15:35	14.4	13.0	111	13	62-140	20
Vinyl acetate	11/14/2019	15:35	137	130	105	10	50-151	20
Vinyl chloride	11/14/2019	15:35	14.1	13.0	108	14	56-135	20

RPD or Spike Recovery: 27 out of 66 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DPT-006(30-31)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: SOIL SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 166498 Sample No.: 357001 Parent Sample No.: 357000

Analytical Prep Batch #: 74483 Analytical Preparation Date/Time: 11/12/2019 10:40

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
1,1,1,2-Tetrachloroethane	11/13/2019	18:50	8.25	8.33	99	11	78-125	20	
1,1,1-Trichloroethane	11/13/2019	18:50	9.42	8.33	113	10	73-130	20	
1,1,2,2-Tetrachloroethane	11/13/2019	18:50	9.00	8.33	108	17	70-124	20	
1,1,2-Trichloroethane	11/13/2019	18:50	9.00	8.33	108	13	78-121	20	
1,1-Dichloroethane	11/13/2019	18:50	9.17	8.33	110	11	76-125	20	
1,1-Dichloroethene	11/13/2019	18:50	9.58	8.33	115	10	70-131	20	
1,1-Dichloropropene	11/13/2019	18:50	9.33	8.33	112	13	76-125	20	
1,2,3-Trichlorobenzene	11/13/2019	18:50	4.33	8.33	52	12	66-130	20	*FAIL*
1,2,3-Trichloropropane	11/13/2019	18:50	10.9	8.33	131	13	73-125	20	*FAIL*
1,2,4-Trichlorobenzene	11/13/2019	18:50	4.75	8.33	57	17	67-129	20	*FAIL*
1,2,4-Trimethylbenzene	11/13/2019	18:50	7.58	8.33	91	13	75-123	20	
1,2-Dibromo-3-chloropropane	11/13/2019	18:50	7.50	8.33	90	18	61-132	20	
1,2-Dibromoethane	11/13/2019	18:50	8.42	8.33	101	13	78-122	20	
1,2-Dichlorobenzene	11/13/2019	18:50	7.00	8.33	84	11	78-121	20	
1,2-Dichloroethane	11/13/2019	18:50	8.75	8.33	105	10	73-128	20	
1,2-Dichloropropane	11/13/2019	18:50	9.08	8.33	109	12	76-123	20	
1,3,5-Trimethylbenzene	11/13/2019	18:50	7.83	8.33	94	12	73-124	20	
1,3-Dichlorobenzene	11/13/2019	18:50	7.00	8.33	84	11	77-121	20	
1,3-Dichloropropane	11/13/2019	18:50	8.92	8.33	107	14	77-121	20	
1,4-Dichlorobenzene	11/13/2019	18:50	7.33	8.33	88	16	75-120	20	
2,2-Dichloropropane	11/13/2019	18:50	9.42	8.33	113	7	67-133	20	
2-Butanone	11/13/2019	18:50	85.8	83.3	103	9	51-148	20	
2-Chlorotoluene	11/13/2019	18:50	7.75	8.33	93	10	75-122	20	
2-Hexanone	11/13/2019	18:50	96.5	83.3	116	16	53-145	20	
4-Chlorotoluene	11/13/2019	18:50	7.92	8.33	95	16	72-124	20	
4-Methyl-2-pentanone	11/13/2019	18:50	99.0	83.3	119	14	65-135	20	
Acetone	11/13/2019	18:50	81.2	83.3	62	12	36-164	20	
Benzene	11/13/2019	18:50	8.83	8.33	106	8	77-121	20	
Bromobenzene	11/13/2019	18:50	8.17	8.33	98	15	78-121	20	
Bromochloromethane	11/13/2019	18:50	9.33	8.33	112	10	78-125	20	
Bromodichloromethane	11/13/2019	18:50	8.75	8.33	105	11	75-127	20	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DPT-006(30-31)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: SOIL SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 166498 Sample No.: 357001 Parent Sample No.: 357000

Analytical Prep Batch #: 74483 Analytical Preparation Date/Time: 11/12/2019 10:40

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Bromoform	11/13/2019	18:50	8.08	8.33	97	12	67-132	20	
Bromomethane	11/13/2019	18:50	7.50	8.33	90	7	53-143	20	
Carbon disulfide	11/13/2019	18:50	19.3	16.7	116	9	63-132	20	
Carbon tetrachloride	11/13/2019	18:50	9.50	8.33	114	9	70-135	20	
Chlorobenzene	11/13/2019	18:50	7.83	8.33	94	9	79-120	20	
Chloroethane	11/13/2019	18:50	9.08	8.33	109	8	59-139	20	
Chloroform	11/13/2019	18:50	9.08	8.33	109	8	78-123	20	
Chloromethane	11/13/2019	18:50	9.83	8.33	118	6	50-136	20	
cis-1,2-Dichloroethene	11/13/2019	18:50	8.83	8.33	106	9	77-123	20	
cis-1,3-Dichloropropene	11/13/2019	18:50	8.67	8.33	104	12	74-126	20	
Dibromochloromethane	11/13/2019	18:50	8.08	8.33	97	10	74-126	20	
Dibromomethane	11/13/2019	18:50	8.75	8.33	105	5	78-125	20	
Dichlorodifluoromethane	11/13/2019	18:50	10.7	8.33	128	8	29-149	20	
Ethylbenzene	11/13/2019	18:50	8.25	8.33	99	11	76-122	20	
Freon 113	11/13/2019	18:50	20.8	16.7	125	8	66-136	20	
Hexachlorobutadiene	11/13/2019	18:50	6.50	8.33	78	14	61-135	20	
Isopropylbenzene	11/13/2019	18:50	8.25	8.33	99	11	68-134	20	
m & p-Xylene	11/13/2019	18:50	16.6	16.7	99	12	77-124	20	
Methylene chloride	11/13/2019	18:50	11.4	8.33	137	14	70-128	20	*FAIL*
Naphthalene	11/13/2019	18:50	4.25	8.33	51	17	62-129	20	*FAIL*
n-Butylbenzene	11/13/2019	18:50	7.42	8.33	89	14	70-128	20	
n-Propylbenzene	11/13/2019	18:50	7.83	8.33	94	14	73-125	20	
o-Xylene	11/13/2019	18:50	8.00	8.33	96	13	77-123	20	
p-Isopropyltoluene	11/13/2019	18:50	7.92	8.33	95	13	73-127	20	
sec-Butylbenzene	11/13/2019	18:50	7.83	8.33	94	11	73-126	20	
Styrene	11/13/2019	18:50	7.67	8.33	92	14	76-124	20	
tert-Butylbenzene	11/13/2019	18:50	8.17	8.33	98	12	73-125	20	
Tetrachloroethene	11/13/2019	18:50	8.83	8.33	106	7	73-128	20	
Toluene	11/13/2019	18:50	8.67	8.33	104	9	77-121	20	
trans-1,2-Dichloroethene	11/13/2019	18:50	8.83	8.33	106	10	74-125	20	
trans-1,3-Dichloropropene	11/13/2019	18:50	8.42	8.33	101	10	71-130	20	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DPT-006(30-31)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: SOIL SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 166498 Sample No.: 357001 Parent Sample No.: 357000

Analytical Prep Batch #: 74483 Analytical Preparation Date/Time: 11/12/2019 10:40

ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
Trichloroethene	11/13/2019	18:50	9.33	8.33	100	3	77-123	20
Trichlorofluoromethane	11/13/2019	18:50	10.3	8.33	124	9	62-140	20
Vinyl acetate	11/13/2019	18:50	80.8	83.3	97	12	50-151	20
Vinyl chloride	11/13/2019	18:50	9.92	8.33	119	6	56-135	20

RPD or Spike Recovery: 5 out of 66 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Sample No.: 356998 | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Sample No.: 356998 | Parent Sample No.: 0

Analytical Prep Batch #: 74482 | Analytical Preparation Date/Time: 11/12/2019 10:15

Analytical Run #: 166497 | ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	11/12/2019	17:19	78-125	9.10		10.0	91
1,1,1-Trichloroethane	11/12/2019	17:19	73-130	9.10		10.0	91
1,1,2,2-Tetrachloroethane	11/12/2019	17:19	70-124	9.20		10.0	92
1,1,2-Trichloroethane	11/12/2019	17:19	78-121	9.10		10.0	91
1,1-Dichloroethane	11/12/2019	17:19	76-125	8.90		10.0	89
1,1-Dichloroethene	11/12/2019	17:19	70-131	9.00		10.0	90
1,1-Dichloropropene	11/12/2019	17:19	76-125	8.70		10.0	87
1,2,3-Trichlorobenzene	11/12/2019	17:19	66-130	9.80		10.0	98
1,2,3-Trichloropropane	11/12/2019	17:19	73-125	7.70		10.0	77
1,2,4-Trichlorobenzene	11/12/2019	17:19	67-129	9.70		10.0	97
1,2,4-Trimethylbenzene	11/12/2019	17:19	75-123	9.10		10.0	91
1,2-Dibromo-3-chloropropane	11/12/2019	17:19	61-132	9.20		10.0	92
1,2-Dibromoethane	11/12/2019	17:19	78-122	9.40		10.0	94
1,2-Dichlorobenzene	11/12/2019	17:19	78-121	9.30		10.0	93
1,2-Dichloroethane	11/12/2019	17:19	73-128	8.80		10.0	88
1,2-Dichloropropane	11/12/2019	17:19	76-123	9.00		10.0	90
1,3,5-Trimethylbenzene	11/12/2019	17:19	73-124	9.50		10.0	95
1,3-Dichlorobenzene	11/12/2019	17:19	77-121	9.30		10.0	93
1,3-Dichloropropane	11/12/2019	17:19	77-121	9.40		10.0	94
1,4-Dichlorobenzene	11/12/2019	17:19	75-120	9.50		10.0	95
2,2-Dichloropropane	11/12/2019	17:19	67-133	9.10		10.0	91
2-Butanone	11/12/2019	17:19	51-148	86.8		100	87
2-Chlorotoluene	11/12/2019	17:19	75-122	9.30		10.0	93
2-Hexanone	11/12/2019	17:19	53-145	95.0		100	95
4-Chlorotoluene	11/12/2019	17:19	72-124	9.30		10.0	93
4-Methyl-2-pentanone	11/12/2019	17:19	65-135	95.2		100	95
Acetone	11/12/2019	17:19	36-164	90.7		100	91
Benzene	11/12/2019	17:19	77-121	9.00		10.0	90

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Sample No.: 356998 | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Sample No.: 356998 | Parent Sample No.: 0

Analytical Prep Batch #: 74482 | Analytical Preparation Date/Time: 11/12/2019 10:15

Analytical Run #: 166497 | ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Bromobenzene	11/12/2019	17:19	78-121	9.30		10.0	93
Bromochloromethane	11/12/2019	17:19	78-125	9.50		10.0	95
Bromodichloromethane	11/12/2019	17:19	75-127	9.20		10.0	92
Bromoform	11/12/2019	17:19	67-132	9.20		10.0	92
Bromomethane	11/12/2019	17:19	53-143	9.30		10.0	93
Carbon disulfide	11/12/2019	17:19	63-132	17.7		20.0	88
Carbon tetrachloride	11/12/2019	17:19	70-135	9.40		10.0	94
Chlorobenzene	11/12/2019	17:19	79-120	8.90		10.0	89
Chloroethane	11/12/2019	17:19	59-139	8.60		10.0	86
Chloroform	11/12/2019	17:19	78-123	9.00		10.0	90
Chloromethane	11/12/2019	17:19	50-136	8.70		10.0	87
cis-1,2-Dichloroethene	11/12/2019	17:19	77-123	9.20		10.0	92
cis-1,3-Dichloropropene	11/12/2019	17:19	74-126	9.40		10.0	94
Dibromochloromethane	11/12/2019	17:19	74-126	9.10		10.0	91
Dibromomethane	11/12/2019	17:19	78-125	9.60		10.0	96
Dichlorodifluoromethane	11/12/2019	17:19	29-149	9.00		10.0	90
Ethylbenzene	11/12/2019	17:19	76-122	9.10		10.0	91
Freon 113	11/12/2019	17:19	66-136	18.6		20.0	93
Hexachlorobutadiene	11/12/2019	17:19	61-135	9.60		10.0	96
Isopropylbenzene	11/12/2019	17:19	68-134	9.10		10.0	91
m & p-Xylene	11/12/2019	17:19	77-124	18.4		20.0	92
Methylene chloride	11/12/2019	17:19	70-128	9.10		10.0	91
Naphthalene	11/12/2019	17:19	62-129	9.90		10.0	99
n-Butylbenzene	11/12/2019	17:19	70-128	9.70		10.0	97
n-Propylbenzene	11/12/2019	17:19	73-125	9.30		10.0	93
o-Xylene	11/12/2019	17:19	77-123	9.10		10.0	91
p-Isopropyltoluene	11/12/2019	17:19	73-127	9.60		10.0	96
sec-Butylbenzene	11/12/2019	17:19	73-126	9.50		10.0	95

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

LCS

SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Sample No.: 356998 SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Sample No.: 356998 Parent Sample No.: 0

Analytical Prep Batch #: 74482 Analytical Preparation Date/Time: 11/12/2019 10:15

Analytical Run #: 166497 ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Styrene	11/12/2019	17:19	76-124	9.30		10.0	93
tert-Butylbenzene	11/12/2019	17:19	73-125	9.30		10.0	93
Tetrachloroethene	11/12/2019	17:19	73-128	8.70		10.0	87
Toluene	11/12/2019	17:19	77-121	8.90		10.0	89
trans-1,2-Dichloroethene	11/12/2019	17:19	74-125	8.80		10.0	88
trans-1,3-Dichloropropene	11/12/2019	17:19	71-130	9.20		10.0	92
Trichloroethene	11/12/2019	17:19	77-123	8.90		10.0	89
Trichlorofluoromethane	11/12/2019	17:19	62-140	9.30		10.0	93
Vinyl acetate	11/12/2019	17:19	50-151	92.0		100	92
Vinyl chloride	11/12/2019	17:19	78-124	8.70		10.0	87

Spike Recovery: 0 out of 66 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCS**

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Sample No.: 357003 | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Sample No.: 357003 | Parent Sample No.: 0

Analytical Prep Batch #: 74483 | Analytical Preparation Date/Time: 11/12/2019 10:40

Analytical Run #: 166498 | ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	11/13/2019	08:12	78-125	8.70		10.0	87
1,1,1-Trichloroethane	11/13/2019	08:12	73-130	8.60		10.0	86
1,1,2,2-Tetrachloroethane	11/13/2019	08:12	70-124	8.70		10.0	87
1,1,2-Trichloroethane	11/13/2019	08:12	78-121	9.10		10.0	91
1,1-Dichloroethane	11/13/2019	08:12	76-125	9.00		10.0	90
1,1-Dichloroethene	11/13/2019	08:12	70-131	8.70		10.0	87
1,1-Dichloropropene	11/13/2019	08:12	76-125	8.50		10.0	85
1,2,3-Trichlorobenzene	11/13/2019	08:12	66-130	9.10		10.0	91
1,2,3-Trichloropropane	11/13/2019	08:12	73-125	9.70		10.0	97
1,2,4-Trichlorobenzene	11/13/2019	08:12	67-129	8.90		10.0	89
1,2,4-Trimethylbenzene	11/13/2019	08:12	75-123	8.60		10.0	86
1,2-Dibromo-3-chloropropane	11/13/2019	08:12	61-132	8.00		10.0	80
1,2-Dibromoethane	11/13/2019	08:12	78-122	9.20		10.0	92
1,2-Dichlorobenzene	11/13/2019	08:12	78-121	8.80		10.0	88
1,2-Dichloroethane	11/13/2019	08:12	73-128	9.30		10.0	93
1,2-Dichloropropane	11/13/2019	08:12	76-123	9.40		10.0	94
1,3,5-Trimethylbenzene	11/13/2019	08:12	73-124	8.90		10.0	89
1,3-Dichlorobenzene	11/13/2019	08:12	77-121	8.70		10.0	87
1,3-Dichloropropane	11/13/2019	08:12	77-121	9.50		10.0	95
1,4-Dichlorobenzene	11/13/2019	08:12	75-120	8.70		10.0	87
2,2-Dichloropropane	11/13/2019	08:12	67-133	9.00		10.0	90
2-Butanone	11/13/2019	08:12	51-148	86.1		100	86
2-Chlorotoluene	11/13/2019	08:12	75-122	8.60		10.0	86
2-Hexanone	11/13/2019	08:12	53-145	91.8		100	92
4-Chlorotoluene	11/13/2019	08:12	72-124	8.80		10.0	88
4-Methyl-2-pentanone	11/13/2019	08:12	65-135	92.9		100	93
Acetone	11/13/2019	08:12	36-164	87.8		100	88
Benzene	11/13/2019	08:12	77-121	8.90		10.0	89

CT LABORATORIES
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3B

Sample Description

SOIL VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Sample No.: 357003 | SDG No.: 149511

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Sample No.: 357003 | Parent Sample No.: 0

Analytical Prep Batch #: 74483 | Analytical Preparation Date/Time: 11/12/2019 10:40

Analytical Run #: 166498 | ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Bromobenzene	11/13/2019	08:12	78-121	8.80		10.0	88
Bromochloromethane	11/13/2019	08:12	78-125	9.70		10.0	97
Bromodichloromethane	11/13/2019	08:12	75-127	9.20		10.0	92
Bromoform	11/13/2019	08:12	67-132	8.70		10.0	87
Bromomethane	11/13/2019	08:12	53-143	6.20		10.0	62
Carbon disulfide	11/13/2019	08:12	63-132	17.5		20.0	88
Carbon tetrachloride	11/13/2019	08:12	70-135	8.90		10.0	89
Chlorobenzene	11/13/2019	08:12	79-120	8.60		10.0	86
Chloroethane	11/13/2019	08:12	59-139	8.50		10.0	85
Chloroform	11/13/2019	08:12	78-123	9.30		10.0	93
Chloromethane	11/13/2019	08:12	50-136	9.20		10.0	92
cis-1,2-Dichloroethene	11/13/2019	08:12	77-123	9.00		10.0	90
cis-1,3-Dichloropropene	11/13/2019	08:12	74-126	9.30		10.0	93
Dibromochloromethane	11/13/2019	08:12	74-126	9.00		10.0	90
Dibromomethane	11/13/2019	08:12	78-125	9.40		10.0	94
Dichlorodifluoromethane	11/13/2019	08:12	29-149	8.60		10.0	86
Ethylbenzene	11/13/2019	08:12	76-122	8.90		10.0	89
Freon 113	11/13/2019	08:12	66-136	18.2		20.0	91
Hexachlorobutadiene	11/13/2019	08:12	61-135	9.20		10.0	92
Isopropylbenzene	11/13/2019	08:12	68-134	8.90		10.0	89
m & p-Xylene	11/13/2019	08:12	77-124	17.2		20.0	86
Methylene chloride	11/13/2019	08:12	70-128	8.90		10.0	89
Naphthalene	11/13/2019	08:12	62-129	9.00		10.0	90
n-Butylbenzene	11/13/2019	08:12	70-128	8.60		10.0	86
n-Propylbenzene	11/13/2019	08:12	73-125	8.50		10.0	85
o-Xylene	11/13/2019	08:12	77-123	8.80		10.0	88
p-Isopropyltoluene	11/13/2019	08:12	73-127	8.90		10.0	89
sec-Butylbenzene	11/13/2019	08:12	73-126	8.90		10.0	89

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

LCS

SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Sample No.: 357003 SDG No.: 149511

Analytical Method: EPA 8260C Concentration Units: ug/kg

Sample No.: 357003 Parent Sample No.: 0

Analytical Prep Batch #: 74483 Analytical Preparation Date/Time: 11/12/2019 10:40

Analytical Run #: 166498 ICAL Calibration #: LS111219

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Styrene	11/13/2019	08:12	76-124	9.00		10.0	90
tert-Butylbenzene	11/13/2019	08:12	73-125	8.80		10.0	88
Tetrachloroethene	11/13/2019	08:12	73-128	8.50		10.0	85
Toluene	11/13/2019	08:12	77-121	8.70		10.0	87
trans-1,2-Dichloroethene	11/13/2019	08:12	74-125	8.60		10.0	86
trans-1,3-Dichloropropene	11/13/2019	08:12	71-130	9.30		10.0	93
Trichloroethene	11/13/2019	08:12	77-123	8.80		10.0	88
Trichlorofluoromethane	11/13/2019	08:12	62-140	9.10		10.0	91
Vinyl acetate	11/13/2019	08:12	50-151	90.7		100	91
Vinyl chloride	11/13/2019	08:12	78-124	8.80		10.0	88

Spike Recovery: 0 out of 66 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories Contract:

Sample No.: SDG No.:

Analytical Method: Concentration Units:

RPD or
Spike Recovery: 0 out of 0 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	356997	SDG No.:	149511
Matrix:	SOLID	Date Extracted:	11/12/2019
Date Analyzed:	11/12/2019	Time Analyzed:	18:17
Analytical Method:	EPA 8260C	Extraction Method:	SW5035
Analytical Run #:	166497	Extraction Batch #:	74482
		ICAL Calibration #:	LS111219

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	357210	11/12/2019 16:36	
2	CCV	357211	11/12/2019 16:50	LS111219
3	LCSS	356998	11/12/2019 17:19	LS111219
4	MBS	356997	11/12/2019 18:17	LS111219
5	DPT-002 (26-27)	356170	11/12/2019 18:46	LS111219
6	DPT-002 (32-33)	356171	11/12/2019 19:15	LS111219
7	DPT-002 (40-41)	356172	11/12/2019 19:44	LS111219
8	DPT-003 (29-30)	356173	11/12/2019 20:13	LS111219
9	DPT-001 (27-28)	356176	11/12/2019 21:40	LS111219
10	DPT-009 (24-25)	356179	11/12/2019 23:07	LS111219
11	DUP-001	356182	11/13/2019 00:34	LS111219
12	DPT-006 (20-21)	356183	11/13/2019 01:03	LS111219
13	DPT-006 (27-28)	356184	11/13/2019 01:32	LS111219
14	DUP-002	356186	11/13/2019 02:01	LS111219
15	DPT-005 (24-25)	356187	11/13/2019 02:30	LS111219
16	DPT-005 (27-28)	356188	11/13/2019 02:59	LS111219
17	DPT-009 (31-32)MSS	356995	11/13/2019 03:28	LS111219
18	CCVF	357225	11/13/2019 04:26	LS111219
19	BFB	365261	11/14/2019 08:06	
20	CCV	357976	11/14/2019 08:19	LS111219
21	CCB	365259	11/14/2019 09:46	LS111219
22	DPT-003 (35-36)	356174	11/14/2019 11:14	LS111219
23	DPT-003 (39-40)	356175	11/14/2019 11:43	LS111219
24	DPT-001 (31-32)	356177	11/14/2019 12:12	LS111219
25	DPT-001 (38-39)	356178	11/14/2019 12:41	LS111219
26	DPT-009 (28-29)	356180	11/14/2019 13:10	LS111219
27	DPT-009 (31-32)	356181	11/14/2019 13:39	LS111219
28	DPT-009 (31-32)MSDS	356996	11/14/2019 15:35	LS111219
29	CCVF	358371	11/14/2019 17:02	LS111219
30	BFB	366358	11/18/2019 15:38	

CT LABORATORIES
delivering more than data from your environmental analyses

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	356997	SDG No.:	149511
Matrix:	SOLID	Date Extracted:	11/12/2019
Date Analyzed:	11/12/2019	Time Analyzed:	18:17
Analytical Method:	EPA 8260C	Extraction Method:	SW5035
Analytical Run #:	166497	Extraction Batch #:	74482
		ICAL Calibration #:	LS111219

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
31	CCV	366359	11/18/2019 16:23	PS102519
32	CCB	366398	11/18/2019 17:49	PS102519
33	DPT-003 (29-30)	356173	11/18/2019 18:18	LS111219
34	DPT-006 (27-28)	356184	11/18/2019 19:43	LS111219
35	DPT-005 (24-25)	356187	11/18/2019 20:12	LS111219
36	DPT-005 (27-28)	356188	11/18/2019 20:41	LS111219
37	CCVF	366360	11/19/2019 03:21	PS102519
38	BFB	366407	11/19/2019 07:01	
39	CCV	366408	11/19/2019 08:07	PS102519
40	CCB	366409	11/19/2019 09:32	PS102519
41	DPT-001 (27-28)	356176	11/19/2019 11:55	LS111219
42	DPT-009 (24-25)	356179	11/19/2019 12:23	LS111219
43	CCVF	366406	11/19/2019 15:43	PS102519

CT LABORATORIES
delivering more than data from your environmental analyses

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	357002	SDG No.:	149511
Matrix:	SOLID	Date Extracted:	11/12/2019
Date Analyzed:	11/13/2019	Time Analyzed:	09:09
Analytical Method:	EPA 8260C	Extraction Method:	SW5035
Analytical Run #:	166498	Extraction Batch #:	74483
		ICAL Calibration #:	LS111219

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	365268	11/13/2019 07:26	
2	CCV	357260	11/13/2019 07:43	LS111219
3	LCSS	357003	11/13/2019 08:12	LS111219
4	MBS	357002	11/13/2019 09:09	LS111219
5	DPT-005 (31-32)	356189	11/13/2019 10:07	LS111219
6	DPT-007 (27-28)	356191	11/13/2019 10:36	LS111219
7	DPT-007 (29-30)	356192	11/13/2019 11:05	LS111219
8	DPT-007 (31-32)	356193	11/13/2019 11:35	LS111219
9	DPT-004 (28-29)	356194	11/13/2019 12:04	LS111219
10	DPT-004 (30-31)	356195	11/13/2019 12:33	LS111219
11	DPT-004 (32-33)	356196	11/13/2019 13:02	LS111219
12	DPT-008 (26-27)	356197	11/13/2019 13:31	LS111219
13	DPT-008 (27-28)	356198	11/13/2019 14:00	LS111219
14	DPT-008 (29-30)	356199	11/13/2019 14:29	LS111219
15	DPT-010 (23-24)	356200	11/13/2019 14:58	LS111219
16	DPT-010 (28-29)	356201	11/13/2019 15:27	LS111219
17	DPT-010 (32-33)	356202	11/13/2019 15:56	LS111219
18	DUP-003	356203	11/13/2019 16:25	LS111219
19	DPT-011 (22-23)	356204	11/13/2019 16:54	LS111219
20	DPT-011 (27-28)	356205	11/13/2019 17:23	LS111219
21	DPT-011 (31-32)	356206	11/13/2019 17:52	LS111219
22	DPT-006(30-31)MSS	357000	11/13/2019 18:21	LS111219
23	DPT-006(30-31)MSDS	357001	11/13/2019 18:50	LS111219
24	CCVF	357925	11/13/2019 19:19	LS111219
25	BFB	365299	11/14/2019 08:06	
26	CCV	357977	11/14/2019 08:19	LS111219
27	CCB	366535	11/14/2019 09:46	LS111219
28	DPT-006(30-31)	356185	11/14/2019 14:08	LS111219
29	CCVF	358370	11/14/2019 17:02	LS111219
30	BFB	366463	11/18/2019 15:38	

CT LABORATORIES
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4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	357002	SDG No.:	149511
Matrix:	SOLID	Date Extracted:	11/12/2019
Date Analyzed:	11/13/2019	Time Analyzed:	09:09
Analytical Method:	EPA 8260C	Extraction Method:	SW5035
Analytical Run #:	166498	Extraction Batch #:	74483
		ICAL Calibration #:	LS111219

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
31	CCV	366465	11/18/2019 16:23	PS102519
32	CCB	366470	11/18/2019 17:49	PS102519
33	DPT-005 (31-32)	356189	11/18/2019 21:10	LS111219
34	DPT-007 (27-28)	356191	11/18/2019 21:38	LS111219
35	DPT-007 (29-30)	356192	11/18/2019 22:07	LS111219
36	DPT-004 (28-29)	356194	11/18/2019 23:04	LS111219
37	DPT-008 (26-27)	356197	11/18/2019 23:33	LS111219
38	DPT-008 (29-30)	356199	11/19/2019 00:30	LS111219
39	DPT-010 (23-24)	356200	11/19/2019 00:59	LS111219
40	DPT-010 (28-29)	356201	11/19/2019 01:27	LS111219
41	DPT-010 (32-33)	356202	11/19/2019 01:56	LS111219
42	DUP-003	356203	11/19/2019 02:24	LS111219
43	CCVF	366467	11/19/2019 03:21	PS102519
44	BFB	366464	11/19/2019 07:01	
45	CCV	366466	11/19/2019 08:07	PS102519
46	CCB	366471	11/19/2019 09:32	PS102519
47	DPT-011 (22-23)	356204	11/19/2019 10:00	LS111219
48	DPT-011 (27-28)	356205	11/19/2019 10:29	LS111219
49	DPT-011 (31-32)	356206	11/19/2019 10:57	LS111219
50	DPT-007 (31-32)	356193	11/19/2019 12:52	LS111219
51	DPT-011 (27-28)	356205	11/19/2019 13:21	LS111219
52	DPT-007 (27-28)	356191	11/19/2019 13:49	LS111219
53	CCVF	366468	11/19/2019 15:43	PS102519

CT LABORATORIES
delivering more than data from your environmental analyses

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VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	358374	SDG No.:	149511
Matrix:	LIQUID	Date Extracted:	
Date Analyzed:	11/14/2019	Time Analyzed:	14:14
Analytical Method:	EPA 8260C	Extraction Method:	NONE
Analytical Run #:	166500	Extraction Batch #:	0
		ICAL Calibration #:	W111219.

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	360425	11/14/2019 13:00	
2	LCSW	358372	11/14/2019 13:15	W111219.
3	CCV	358373	11/14/2019 13:15	W111219.
4	MBW	358374	11/14/2019 14:14	W111219.
5	TB-001	356164	11/14/2019 14:44	W111219.
6	EB-001	356190	11/14/2019 15:14	W111219.
7	EB-002	356220	11/14/2019 15:44	W111219.
8	EB-003	356223	11/14/2019 16:14	W111219.
9	DPT-002	356207	11/14/2019 16:44	W111219.
10	DUP-004	356208	11/14/2019 17:14	W111219.
11	DPT-009	356211	11/14/2019 17:44	W111219.
12	DPT-003	356209	11/14/2019 18:13	W111219.
13	DPT-004	356210	11/14/2019 18:43	W111219.
14	DPT-006	356212	11/14/2019 19:12	W111219.
15	DPT-007	356213	11/14/2019 19:42	W111219.
16	DPT-001	356214	11/14/2019 20:13	W111219.
17	DPT-005	356215	11/14/2019 20:43	W111219.
18	DPT-008	356216	11/14/2019 21:12	W111219.
19	DPT-010	356217	11/14/2019 21:43	W111219.
20	DPT-011	356221	11/14/2019 22:13	W111219.
21	47WW37	356224	11/14/2019 22:43	W111219.
22	DPT-002MSW	358375	11/14/2019 23:13	W111219.
23	DPT-002MSDW	358376	11/14/2019 23:42	W111219.
24	CCVF	358377	11/15/2019 00:13	W111219.
25	BFB	361427	11/15/2019 07:52	
26	CCV	361428	11/15/2019 09:43	W111219.
27	CCB	361430	11/15/2019 10:42	W111219.
28	DPT-009	356211	11/15/2019 13:41	W111219.
29	CCVF	361429	11/15/2019 15:10	W111219.

CT LABORATORIES
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4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	358544	SDG No.:	149511
Matrix:	LIQUID	Date Extracted:	
Date Analyzed:	11/15/2019	Time Analyzed:	10:42
Analytical Method:	EPA 8260C	Extraction Method:	NONE
Analytical Run #:	166501	Extraction Batch #:	0
		ICAL Calibration #:	W111219.

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	360423	11/15/2019 07:52	
2	LCSW	358448	11/15/2019 09:43	W111219.
3	CCV	358449	11/15/2019 09:43	W111219.
4	MBW	358544	11/15/2019 10:42	W111219.
5	TB-002	356229	11/15/2019 11:12	W111219.
6	TB-003	356230	11/15/2019 11:42	W111219.
7	DUP-005	356225	11/15/2019 12:12	W111219.
8	47WW25R-35	356227	11/15/2019 12:42	W111219.
9	47WW25R-38	356228	11/15/2019 13:11	W111219.
10	47WW25R-35MSW	358637	11/15/2019 14:11	W111219.
11	47WW25R-35MSDW	358666	11/15/2019 14:40	W111219.
12	CCVF	358796	11/15/2019 15:10	W111219.

CT LABORATORIES
delivering more than data from your environmental analyses

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	364671	SDG No.:	149511
Matrix:	LIQUID	Date Extracted:	
Date Analyzed:	12/01/2019	Time Analyzed:	14:34
Analytical Method:	EPA 8260C	Extraction Method:	NONE
Analytical Run #:	167058	Extraction Batch #:	0
		ICAL Calibration #:	W112419.

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	364666	12/01/2019 08:21	
2	CCV	364663	12/01/2019 08:37	W112419.
3	LCSW	364668	12/01/2019 14:04	W112419.
4	MBW	364671	12/01/2019 14:34	W112419.
5	46ADPT-TCLP	356218	12/01/2019 15:04	W112419.
6	CCVF	366957	12/01/2019 19:02	W112419.
7	LCSDW	367011	12/01/2019 19:02	W112419.

Data File : C:\Instarch\Data\NOV1219\BFB1.D Vial: 1
Acq On : 12 Nov 2019 9:15 Operator: RLD-DGS
Sample : BFB DIRECT INJ. Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS111219.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.630 to 4.656 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	6581	PASS
75	95	30	60	41.3	15704	PASS
95	95	100	100	100.0	38032	PASS
96	95	5	9	7.7	2939	PASS
173	174	0.00	2	0.6	194	PASS
174	95	50	100	92.2	35075	PASS
175	174	5	9	6.4	2260	PASS
176	174	95	101	96.4	33813	PASS
177	176	5	9	7.4	2509	PASS

LS111219.M Tue Nov 19 08:10:51 2019

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Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS111219.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 09:15 Total files within period : 12
Sample Directory : C:\INSTARCH\DATA\NOV1219\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
LLCALS1	1.00	1.00	1.00	CALIB. PT. 1 0.001/0.010 mg/kg, 1	12 Nov 2019	10:11
LLCALS2	1.00	1.00	1.00	CALIB. PT. 2 0.002/0.020 mg/kg, 1	12 Nov 2019	10:40
LLCALS3	1.00	1.00	1.00	CALIB. PT. 3 0.005/0.050 mg/kg, 1	12 Nov 2019	12:11
LLCALS4	1.00	1.00	1.00	CALIB. PT. 4 0.010/0.100 mg/kg, 1	12 Nov 2019	12:40
LLCALS5	1.00	1.00	1.00	CALIB. PT. 5 0.020/0.200 mg/kg, 1	12 Nov 2019	13:09
LLCALS6	1.00	1.00	1.00	CALIB. PT. 6 0.030/0.300 mg/kg, 1	12 Nov 2019	13:38
LLCALS7	1.00	1.00	1.00	CALIB. PT. 7 0.040/0.400 mg/kg, 1	12 Nov 2019	14:07
LLCALS8	1.00	1.00	1.00	CALIB. PT. 8 0.080/0.800 mg/kg, 1	12 Nov 2019	14:36
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.010/0.10 mg/kg, 15	12 Nov 2019	15:34
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.030/0.30 mg/kg, 15	12 Nov 2019	16:03

Data File : C:\Instarch\Data\NOV1219B\BFB1.D Vial: 1
Acq On : 12 Nov 2019 16:36 Operator: RLD-DGS
Sample : 166497,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS111219.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.633 to 4.640 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	17914	PASS
75	95	30	60	45.5	45521	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.8	7786	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.0	88029	PASS
175	174	5	9	8.1	7139	PASS
176	174	95	101	98.0	86270	PASS
177	176	5	9	6.3	5445	PASS

LS111219.M Mon Dec 02 12:38:27 2019

Data File : C:\Instarch\Data\NOV1219B\BFB2.D Vial: 27
Acq On : 13 Nov 2019 7:26 Operator: RLD-DGS
Sample : 166498,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS111219.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.633 to 4.636 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.7	23686	PASS
75	95	30	60	47.4	47365	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.2	6157	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.4	91422	PASS
175	174	5	9	6.7	6157	PASS
176	174	95	101	96.5	88213	PASS
177	176	5	9	6.1	5350	PASS

LS111219.M Mon Dec 02 12:39:10 2019

Data File : C:\Instarch\Data\NOV1219B\BFB3.D Vial: 53
Acq On : 14 Nov 2019 8:06 Operator: RLD-DGS
Sample : 166558,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS111219.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.656 to 4.675 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	19132	PASS
75	95	30	60	44.7	44741	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.2	7230	PASS
173	174	0.00	2	0.5	437	PASS
174	95	50	100	96.4	96431	PASS
175	174	5	9	7.9	7632	PASS
176	174	95	101	100.3	96686	PASS
177	176	5	9	6.3	6089	PASS

LS111219.M Mon Dec 02 12:39:34 2019

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219B\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 16:36 Total files within period : 71
Sample Directory : C:\INSTARCH\DATA\NOV1219B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
CCV1	1.00	1.00	1.00	166497,CCV, 0.010/0.10 mg/kg, 15.0 ml	12 Nov 2019	16:50
LCS1	1.00	1.00	1.00	166497,LCSS, 5.00g, 0.010/0.10 mg/kg,	12 Nov 2019	17:19
MB-ICB1	1.00	1.00	1.00	166497,MBS, 5.00g, 15.0 ml Purged + I	12 Nov 2019	18:17
356170	1.00	1.00	1.00	166497,356170, 4.78g, 15.0 ml Purged + I	12 Nov 2019	18:46
356171	1.00	1.00	1.00	166497,356171, 5.69g, 15.0 ml Purged + I	12 Nov 2019	19:15
356172	1.00	1.00	1.00	166497,356172, 4.86g, 15.0 ml Purged + I	12 Nov 2019	19:44
356173	1.00	1.00	1.00	166497,356173, 5.45g, 15.0 ml Purged + I	12 Nov 2019	20:13
356174	1.00	1.00	1.00	166497,356174, 6.30g, 15.0 ml Purged + I	12 Nov 2019	20:42
356175	1.00	1.00	1.00	166497,356175, 5.74g, 15.0 ml Purged + I	12 Nov 2019	21:11
356176	1.00	1.00	1.00	166497,356176, 5.71g, 15.0 ml Purged + I	12 Nov 2019	21:40
356177	1.00	1.00	1.00	166497,356177, 5.91g, 15.0 ml Purged + I	12 Nov 2019	22:09
356178	1.00	1.00	1.00	166497,356178, 5.85g, 15.0 ml Purged + I	12 Nov 2019	22:38
356179	1.00	1.00	1.00	166497,356179, 5.00g, 15.0 ml Purged + I	12 Nov 2019	23:07
356180	1.00	1.00	1.00	166497,356180, 5.63g, 15.0 ml Purged + I	12 Nov 2019	23:36
356181	1.00	1.00	1.00	166497,356181, 7.20g, 15.0 ml Purged + I	13 Nov 2019	00:05
356182	1.00	1.00	1.00	166497,356182, 5.95g, 15.0 ml Purged + I	13 Nov 2019	00:34
356183	1.00	1.00	1.00	166497,356183, 4.69g, 15.0 ml Purged + I	13 Nov 2019	01:03
356184	1.00	1.00	1.00	166497,356184, 5.46g, 15.0 ml Purged + I	13 Nov 2019	01:32
356186	1.00	1.00	1.00	166497,356186, 4.87g, 15.0 ml Purged + I	13 Nov 2019	02:01
356187	1.00	1.00	1.00	166497,356187, 6.94g, 15.0 ml Purged + I	13 Nov 2019	02:30
356188	1.00	1.00	1.00	166497,356188, 5.84g, 15.0 ml Purged + I	13 Nov 2019	02:59

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219B\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 16:36 Total files within period : 71
Sample Directory : C:\INSTARCH\DATA\NOV1219B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
356181MS	1.00	1.00	1.00	166497,MSS356181, 6.09g, 15.0 ml Purged + I	13 Nov 2019	03:28
356181SD	1.00	1.00	1.00	166497,MSS356181, 6.45g, 15.0 ml Purged + I	13 Nov 2019	03:57
CCVF1	1.00	1.00	1.00	166497,CCVF, 0.010/0.10 mg/kg, 15.0 ml	13 Nov 2019	04:26
BFB2	1.00	1.00	1.00	166498,BFB, 50 ng Injection	13 Nov 2019	07:26
CCV2	1.00	1.00	1.00	166498,CCV, 0.010/0.10 mg/kg, 15.0 ml	13 Nov 2019	07:43
LCS2	1.00	1.00	1.00	166498,LCSS, 5.00g, 0.010/0.10 mg/kg,	13 Nov 2019	08:12
MB2	1.00	1.00	1.00	166498,MBS, 5.00g, 15.0 ml Purged + I	13 Nov 2019	09:09
356185	1.00	1.00	1.00	166498,356185, 3.37g, 15.0 ml Purged + I	13 Nov 2019	09:38
356189	1.00	1.00	1.00	166498,356189, 5.86g, 15.0 ml Purged + I	13 Nov 2019	10:07
356191	1.00	1.00	1.00	166498,356191, 5.70g, 15.0 ml Purged + I	13 Nov 2019	10:36
356192	1.00	1.00	1.00	166498,356192, 5.64g, 15.0 ml Purged + I	13 Nov 2019	11:05
356193	1.00	1.00	1.00	166498,356193, 5.39g, 15.0 ml Purged + I	13 Nov 2019	11:35
356194	1.00	1.00	1.00	166498,356194, 5.64g, 15.0 ml Purged + I	13 Nov 2019	12:04
356195	1.00	1.00	1.00	166498,356195, 4.71g, 15.0 ml Purged + I	13 Nov 2019	12:33
356196	1.00	1.00	1.00	166498,356196, 7.34g, 15.0 ml Purged + I	13 Nov 2019	13:02
356197	1.00	1.00	1.00	166498,356197, 5.95g, 15.0 ml Purged + I	13 Nov 2019	13:31
356198	1.00	1.00	1.00	166498,356198, 6.84g, 15.0 ml Purged + I	13 Nov 2019	14:00
356199	1.00	1.00	1.00	166498,356199, 5.98g, 15.0 ml Purged + I	13 Nov 2019	14:29
356200	1.00	1.00	1.00	166498,356200, 6.45g, 15.0 ml Purged + I	13 Nov 2019	14:58
356201	1.00	1.00	1.00	166498,356201, 6.11g, 15.0 ml Purged + I	13 Nov 2019	15:27
356202	1.00	1.00	1.00	166498,356202, 6.28g, 15.0 ml Purged + I	13 Nov 2019	15:56

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219B\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 16:36 Total files within period : 71
Sample Directory : C:\INSTARCH\DATA\NOV1219B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
356203	1.00	1.00	1.00	166498,356203, 7.36g, 15.0 ml Purged + I	13 Nov 2019	16:25
356204	1.00	1.00	1.00	166498,356204, 7.60g, 15.0 ml Purged + I	13 Nov 2019	16:54
356205	1.00	1.00	1.00	166498,356205, 6.48g, 15.0 ml Purged + I	13 Nov 2019	17:23
356206	1.00	1.00	1.00	166498,356206, 7.22g, 15.0 ml Purged + I	13 Nov 2019	17:52
356185MS	1.00	1.00	1.00	166498,MSS356185, 5.97g, 15.0 ml Purged + I	13 Nov 2019	18:21
356185SD	1.00	1.00	1.00	166498,MSS356185, 6.00g, 15.0 ml Purged + I	13 Nov 2019	18:50
CCVF2	1.00	1.00	1.00	166498,CCVF, 0.010/0.10 mg/kg, 15.0 ml	13 Nov 2019	19:19
BFB3	1.00	1.00	1.00	166558,BFB, 50 ng Injection	14 Nov 2019	08:06
CCV3	1.00	1.00	1.00	166558,CCV, 0.010/0.10 mg/kg, 15.0 ml	14 Nov 2019	08:19
LCS3	1.00	1.00	1.00	166558,LCSS, 5.00g, 0.010/0.10 mg/kg,	14 Nov 2019	08:48
MB3-CCB1	1.00	1.00	1.00	166558,MBS, 5.00g, 15.0 ml Purged + I	14 Nov 2019	09:46
356174R	1.00	1.00	1.00	166497,356174, 5.79g, 15.0 ml Purged + I	14 Nov 2019	11:14
356175R	1.00	1.00	1.00	166497,356175, 6.00g, 15.0 ml Purged + I	14 Nov 2019	11:43
356177R	1.00	1.00	1.00	166497,356177, 7.10g, 15.0 ml Purged + I	14 Nov 2019	12:12
356178R	1.00	1.00	1.00	166497,356178, 5.50g, 15.0 ml Purged + I	14 Nov 2019	12:41
356180R	1.00	1.00	1.00	166497,356180, 5.30g, 15.0 ml Purged + I	14 Nov 2019	13:10
356181R	1.00	1.00	1.00	166497,356181, 5.56g, 15.0 ml Purged + I	14 Nov 2019	13:39
356185R	1.00	1.00	1.00	166498,356185, 6.64g, 15.0 ml Purged + I	14 Nov 2019	14:08
356195R	1.00	1.00	1.00	166498,356195, 6.38g, 15.0 ml Purged + I	14 Nov 2019	14:37

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219B\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 16:36 Total files within period : 71
Sample Directory : C:\INSTARCH\DATA\NOV1219B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
356196R	1.00	1.00	1.00	166498,356196, 5.83g, 15.0 ml Purged + I	14 Nov 2019	15:06
356181~1	1.00	1.00	1.00	166497,MSDS356181, 4.69g, 15.0 ml Purged + I	14 Nov 2019	15:35
356181~2	1.00	1.00	1.00	166497,MSS356181, 5.14g, 15.0 ml Purged + I	14 Nov 2019	16:04
LCSD1	1.00	1.00	1.00	166558,LCSDS, 5.00g, 0.010/0.10 mg/kg,	14 Nov 2019	16:33
CCVF3	1.00	1.00	1.00	166558,CCVF, 0.010/0.10 mg/kg, 15.0 ml	14 Nov 2019	17:02

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): LLCALS4.D Date Analyzed : 12 Nov 2019
Instrument ID : VMS4 Time Analyzed : 12:40
GC Column : DB-624 UI ID : VMS4(mm) Heated Purge (Y:N) : Y

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	890701	7.66	689390	11.59	372004	14.89
UPPER LIMIT	1781402	8.16	1378780	12.09	744008	15.39
LOWER LIMIT	445351	7.16	344695	11.09	186002	14.39
File ID Sample						
356170 166497,35	1049140	7.66	839304	11.59	473029	14.89
356171 166497,35	870444	7.66	680210	11.59	345281	14.89
356172 166497,35	1076520	7.66	825960	11.59	413498	14.89
356173 166497,35	661094	7.66	519875	11.59	288915	14.89
356174 166497,35	908656	7.67	665029	11.59	278751	14.89
356174R 166497,35	888334	7.66	693550	11.59	331031	14.89
356175 166497,35	953173	7.66	692452	11.59	261506	14.89
356175R 166497,35	809501	7.66	614154	11.59	270422	14.89
356176 166497,35	1055222	7.67	813966	11.59	438787	14.89
356177 166497,35	920973	7.66	702643	11.59	336530	14.89
356177R 166497,35	706421	7.66	528654	11.59	204392	14.89
356178 166497,35	1032430	7.66	705684	11.59	245330	14.89
356178R 166497,35	925971	7.67	712965	11.59	320348	14.89
356179 166497,35	989654	7.67	767165	11.58	415313	14.89
356180 166497,35	1004721	7.66	797145	11.59	420606	14.89
356180R 166497,35	890204	7.66	700433	11.59	360045	14.89
356181 166497,35	560971	7.66	446200	11.59	231954	14.89
356181~1 166497,MS	935356	7.66	730908	11.59	350488	14.89
356181~2 166497,MS	281982 *	7.66	231727 *	11.59	121179 *	14.89
356181MS 166497,MS	967927	7.66	738582	11.59	336439	14.89
356181R 166497,35	826700	7.66	657789	11.59	333017	14.89
356181SD 166497,MS	216323 *	7.66	181454 *	11.59	108356 *	14.89
356182 166497,35	753897	7.66	603888	11.59	305637	14.89
356183 166497,35	984014	7.66	786449	11.58	434310	14.89
356184 166497,35	797718	7.66	626671	11.59	333203	14.89

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): LLCALS4.D Date Analyzed : 12 Nov 2019
Instrument ID : VMS4 Time Analyzed : 12:40
GC Column : DB-624 UI ID : VMS4(mm) Heated Purge (Y:N) : Y

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	890701	7.66	689390	11.59	372004	14.89
UPPER LIMIT	1781402	8.16	1378780	12.09	744008	15.39
LOWER LIMIT	445351	7.16	344695	11.09	186002	14.39
File ID Sample						
356185 166498,35	420368 *	7.67	350852	11.59	197637	14.89
356185MS 166498,MS	903390	7.66	728937	11.59	389953	14.89
356185R 166498,35	913573	7.66	742673	11.59	393951	14.89
356185SD 166498,MS	922945	7.66	733888	11.58	386732	14.89
356186 166497,35	984880	7.66	784992	11.59	430696	14.89
356187 166497,35	954741	7.67	748253	11.59	413423	14.89
356188 166497,35	915552	7.66	691330	11.59	347511	14.89
356189 166498,35	779228	7.66	613373	11.59	329608	14.89
356191 166498,35	898066	7.66	700019	11.59	396860	14.89
356192 166498,35	988915	7.67	760327	11.59	411744	14.89
356193 166498,35	886348	7.66	686711	11.59	372930	14.89
356194 166498,35	915542	7.66	627760	11.58	239086	14.90
356195 166498,35	913703	7.66	697837	11.58	310315	14.89
356195R 166498,35	929278	7.66	712622	11.59	288222	14.89
356196 166498,35	901792	7.66	669701	11.59	238271	14.89
356196R 166498,35	915719	7.66	701310	11.59	283610	14.89
356197 166498,35	887430	7.67	689943	11.59	389274	14.89
356198 166498,35	931902	7.66	741311	11.59	399352	14.89
356199 166498,35	761640	7.66	607916	11.59	345419	14.89
356200 166498,35	838962	7.67	668116	11.59	374267	14.89
356201 166498,35	855098	7.66	678298	11.59	378733	14.90
356202 166498,35	779129	7.67	613299	11.59	342050	14.89
356203 166498,35	919580	7.66	720626	11.59	389312	14.89
356204 166498,35	820727	7.66	664189	11.59	372262	14.89
356205 166498,35	895852	7.67	714679	11.59	398150	14.89

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): LLCALS4.D Date Analyzed : 12 Nov 2019
Instrument ID : VMS4 Time Analyzed : 12:40
GC Column : DB-624 UI ID : VMS4(mm) Heated Purge (Y:N) : Y

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	890701	7.66	689390	11.59	372004	14.89
UPPER LIMIT	1781402	8.16	1378780	12.09	744008	15.39
LOWER LIMIT	445351	7.16	344695	11.09	186002	14.39
File ID Sample						
356206 166498,35	902878	7.66	704196	11.59	382343	14.89
CCV1 166497,CC	1029410	7.66	807503	11.58	449087	14.89
CCV2 166498,CC	989252	7.66	771680	11.58	430213	14.89
CCV3 166558,CC	932393	7.66	737222	11.59	406728	14.89
CCVF1 166497,CC	937290	7.66	749152	11.59	415878	14.89
CCVF2 166498,CC	883309	7.67	703147	11.59	399456	14.89
CCVF3 166558,CC	917211	7.66	733663	11.59	400517	14.89
LCS1 166497,LC	1045912	7.66	823112	11.59	450595	14.89
LCS2 166498,LC	1003552	7.67	790084	11.59	437807	14.89
LCS3 166558,LC	904049	7.66	717266	11.59	397807	14.89
LCSD1 166558,LC	901179	7.67	712687	11.59	391412	14.89
MB-ICB1 166497,MB	1044903	7.66	820214	11.59	458939	14.89
MB2 166498,MB	966880	7.66	757764	11.59	417883	14.89
MB3-CCB1 166558,MB	910247	7.66	727737	11.59	403128	14.89

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

Data File : C:\Instarch\Data\OCT2519C\BFB1.D Vial: 1
Acq On : 25 Oct 2019 23:34 Operator: RLD-DGS
Sample : BFB DIRECT INJ. Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS102519.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.621 to 4.643 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	9133	PASS
75	95	30	60	48.4	18796	PASS
95	95	100	100	100.0	38820	PASS
96	95	5	9	6.7	2589	PASS
173	174	0.00	2	0.9	288	PASS
174	95	50	100	81.1	31468	PASS
175	174	5	9	8.9	2807	PASS
176	174	95	101	101.0	31773	PASS
177	176	5	9	6.3	1991	PASS

PS102519.M Tue Nov 19 08:30:50 2019

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS102519.M
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\OCT2519C\BFB1.D
Injection Date : 25 Oct 2019 Log Time Period (hrs) : ALL
Injection Time : 23:34 Total files within period : 17
Sample Directory : C:\INSTARCH\DATA\OCT2519C\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
CALS1	1.00	1.00	1.00	CALIB. PT. 1 0.025/0.25 mg/kg, 5.	26 Oct 2019	01:20
CALS2	1.00	1.00	1.00	CALIB. PT. 2 0.050/0.50 mg/kg, 5.	26 Oct 2019	01:48
CALS3	1.00	1.00	1.00	CALIB. PT. 3 0.10/1.00 mg/kg, 5.0	26 Oct 2019	02:16
CALS4	1.00	1.00	1.00	CALIB. PT. 4 0.25/2.50 mg/kg, 5.0	26 Oct 2019	02:44
CALS5	1.00	1.00	1.00	CALIB. PT. 5 0.50/5.00 mg/kg, 5.0	26 Oct 2019	03:12
CALS6	1.00	1.00	1.00	CALIB. PT. 6 1.00/10.0 mg/kg, 5.0	26 Oct 2019	03:40
CALS7	1.00	1.00	1.00	CALIB. PT. 7 1.50/15.0 mg/kg, 5.0	26 Oct 2019	04:09
CALS8	1.00	1.00	1.00	CALIB. PT. 8 2.00/20.0 mg/kg, 5.0	26 Oct 2019	04:37
CALS9	1.00	1.00	1.00	CALIB. PT.9 4.00/40.0 mg/kg, 5.0	26 Oct 2019	05:05
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.50/5.00 mg/kg, 5.0	26 Oct 2019	06:01
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 1.50/15.00mg/kg, 5.0	26 Oct 2019	06:29
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 1.0ml Ext/50ml, 5.0	26 Oct 2019	07:25

Data File : C:\Instarch\Data\NOV1819\BFB1R.D Vial: 1
Acq On : 18 Nov 2019 15:38 Operator: RLD-DGS
Sample : 166497,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS102519.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.630 to 4.649 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.1	6746	PASS
75	95	30	60	51.1	16368	PASS
95	95	100	100	100.0	32017	PASS
96	95	5	9	7.4	2363	PASS
173	174	0.00	2	0.3	106	PASS
174	95	50	100	95.5	30588	PASS
175	174	5	9	8.3	2537	PASS
176	174	95	101	95.6	29227	PASS
177	176	5	9	6.4	1862	PASS

PS102519.M Tue Dec 03 08:05:52 2019

Data File : C:\Instarch\Data\NOV1819\BFB2R.D Vial: 27
Acq On : 19 Nov 2019 7:01 Operator: RLD-DGS
Sample : 165498,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS102519.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.636 to 4.636 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	18832	PASS
75	95	30	60	48.5	48510	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.2	6219	PASS
173	174	0.00	2	0.6	442	PASS
174	95	50	100	78.3	78340	PASS
175	174	5	9	6.0	4689	PASS
176	174	95	101	99.8	78190	PASS
177	176	5	9	7.7	5986	PASS

PS102519.M Tue Dec 03 08:05:30 2019

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1819\BFB1R.D
Injection Date : 18 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 15:38 Total files within period : 45
Sample Directory : C:\INSTARCH\DATA\NOV1819\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
CCV1R	1.00	1.00	1.00	166497,CCV, 0.50/5.00 mg/kg, 5.0 ml P	18 Nov 2019	16:23
LCS1R	1.00	1.00	1.00	166497,LCSS, 1.0ml Ext/50ml, 0.50/5.00	18 Nov 2019	16:52
MB1R	1.00	1.00	1.00	166497,MBS, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	17:49
356173R	1.00	1.00	1.00	166497,356173,5 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	18:18
356176R	1.00	1.00	1.00	166497,356176,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	18:46
356179R	1.00	1.00	1.00	166497,356179,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	19:15
356184R	1.00	1.00	1.00	166497,356184, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	19:43
356187R	1.00	1.00	1.00	166497,356187, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	20:12
356188R	1.00	1.00	1.00	166497,356188, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	20:41
356189R	1.00	1.00	1.00	166498,356189, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	21:10
356191R	1.00	1.00	1.00	166498,356191,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	21:38
356192R	1.00	1.00	1.00	166498,356192, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	22:07
356193R	1.00	1.00	1.00	166498,356193,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	22:35
356194R	1.00	1.00	1.00	166498,356194,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	23:04
356197R	1.00	1.00	1.00	166498,356197,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	23:33
356198R	1.00	1.00	1.00	166498,356198, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	00:01
356199R	1.00	1.00	1.00	166498,356199, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	00:30
356200R	1.00	1.00	1.00	166498,356200, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	00:59
356201R	1.00	1.00	1.00	166498,356201, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	01:27
356202R	1.00	1.00	1.00	166498,356202,2 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	01:56

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1819\BFB1R.D
Injection Date : 18 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 15:38 Total files within period : 45
Sample Directory : C:\INSTARCH\DATA\NOV1819\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
356203R	1.00	1.00	1.00	166498,356203,2 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	02:24
LCSD1R	1.00	1.00	1.00	166497,LCSDS, 1.0ml Ext/50ml, 0.50/5.00	19 Nov 2019	02:53
CCVF1R	1.00	1.00	1.00	166497,CCVF, 0.50/5.00 mg/kg, 5.0 ml P	19 Nov 2019	03:21
BFB2R	1.00	1.00	1.00	165498,BFB, 50 ng Injection	19 Nov 2019	07:01
CCV2R	1.00	1.00	1.00	165498,CCV, 0.50/5.00 mg/kg, 5.0 ml P	19 Nov 2019	08:07
LCS2R	1.00	1.00	1.00	165498,LCSS, 1.0ml Ext/50ml, 0.50/5.00	19 Nov 2019	08:35
MB2-CC~1	1.00	1.00	1.00	165498,MBS, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	09:32
356204R	1.00	1.00	1.00	166498,356204, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	10:00
356205R	1.00	1.00	1.00	166498,356205,2 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	10:29
356206R	1.00	1.00	1.00	166498,356206,2 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	10:57
356176R2	1.00	1.00	1.00	166497,356176,5 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	11:55
356179R2	1.00	1.00	1.00	166497,356179, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	12:23
356193R2	1.00	1.00	1.00	166498,356193,10 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	12:52
356205R2	1.00	1.00	1.00	166498,356205, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	13:21
356191R2	1.00	1.00	1.00	166498,356191, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	13:49
LCSD2R	1.00	1.00	1.00	166498,LCSDS, 1.0ml Ext/50ml, 0.50/5.00	19 Nov 2019	15:15
CCVF2R	1.00	1.00	1.00	166498,CCVF, 0.50/5.00 mg/kg, 5.0 ml P	19 Nov 2019	15:43

Over-range
Report

8260 ISTD/SSTD 20ug/ml VOC0645
8260 BFB STD. 50ug/ml VOC0644
8260 ICV STD. 100ug/ml VOC0646
8260 CCV/CALIB. 100ug/ml VOC0647

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): CALS5.D Date Analyzed : 26 Oct 2019
Instrument ID : VMS4 Time Analyzed : 3:12
GC Column : DB-624 UI ID : VMS4(mm) Heated Purge (Y:N) : N

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1362576	7.66	1097697	11.58	578997	14.89
UPPER LIMIT	2725152	8.16	2195394	12.08	1157994	15.39
LOWER LIMIT	681288	7.16	548849	11.08	289499	14.39
File ID Sample						
356173R 166497,35	803466	7.66	648538	11.59	323307	14.89
356176R 166497,35	811954	7.66	641086	11.59	333650	14.89
356176R2 166497,35	875610	7.66	710023	11.59	358909	14.89
356179R 166497,35	834675	7.66	657264	11.59	334904	14.89
356179R2 166497,35	862648	7.66	704621	11.59	362358	14.90
356184R 166497,35	801313	7.66	647250	11.59	338092	14.90
356187R 166497,35	810691	7.66	667224	11.59	335588	14.89
356188R 166497,35	791492	7.66	645616	11.59	329847	14.89
356189R 166498,35	791423	7.66	635218	11.59	327130	14.89
356191R 166498,35	788791	7.66	632233	11.59	330606	14.90
356191R2 166498,35	867308	7.66	710582	11.59	365532	14.89
356192R 166498,35	802475	7.66	654534	11.58	337693	14.89
356193R 166498,35	816357	7.66	652919	11.59	340602	14.89
356193R2 166498,35	862974	7.66	699673	11.59	366647	14.89
356194R 166498,35	818153	7.66	662365	11.59	347118	14.89
356197R 166498,35	794948	7.66	651002	11.59	334409	14.90
356198R 166498,35	807544	7.66	646854	11.59	334293	14.89
356199R 166498,35	797382	7.66	652477	11.59	343223	14.89
356200R 166498,35	847972	7.66	678967	11.59	343727	14.89
356201R 166498,35	818945	7.66	670129	11.59	339534	14.89
356202R 166498,35	834254	7.66	677487	11.59	340751	14.89
356203R 166498,35	837215	7.66	678948	11.59	345518	14.89
356204R 166498,35	857439	7.66	693704	11.59	362715	14.90
356205R 166498,35	878946	7.66	700548	11.59	350965	14.89
356205R2 166498,35	883531	7.66	716470	11.59	366284	14.89

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): CALS5.D Date Analyzed : 26 Oct 2019
Instrument ID : VMS4 Time Analyzed : 3:12
GC Column : DB-624 UI ID : VMS4(mm) Heated Purge (Y:N) : N

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1362576	7.66	1097697	11.58	578997	14.89
UPPER LIMIT	2725152	8.16	2195394	12.08	1157994	15.39
LOWER LIMIT	681288	7.16	548849	11.08	289499	14.39
File ID Sample						
356206R 166498,35	867612	7.66	695578	11.59	367220	14.89
CCV1R 166497,CC	799283	7.66	667103	11.59	343427	14.89
CCV2R 165498,CC	881459	7.66	714759	11.59	371048	14.89
CCVF1R 166497,CC	877920	7.66	722469	11.59	376542	14.89
CCVF2R 166498,CC	926652	7.66	761752	11.59	405691	14.89
LCS1R 166497,LC	833813	7.66	668269	11.59	354344	14.89
LCS2R 165498,LC	911206	7.66	752269	11.59	385503	14.89
LCSD1R 166497,LC	882032	7.66	729877	11.59	388423	14.89
LCSD2R 166498,LC	931142	7.66	768388	11.59	414651	14.89
MB1R 166497,MB	789071	7.66	640800	11.59	318104	14.89
MB2-CC~1 165498,MB	866654	7.66	693364	11.59	354350	14.90

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

BFB

Data File : C:\Instarch\Data\NOV1219\BFB1.D Vial: 1
Acq On : 12 Nov 2019 9:18 Operator: RLD-DGS
Sample : 165549,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W111219.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.622 to 4.634 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	4720	PASS
75	95	30	60	57.7	15334	PASS
95	95	100	100	100.0	26594	PASS
96	95	5	9	8.1	2166	PASS
173	174	0.00	2	0.8	201	PASS
174	95	50	100	91.2	24242	PASS
175	174	5	9	6.2	1509	PASS
176	174	95	101	100.0	24248	PASS
177	176	5	9	6.9	1666	PASS

W111219.M Tue Dec 10 11:06:36 2019

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Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W111219.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 09:18 Total files within period : 32
Sample Directory : C:\INSTARCH\DATA\NOV1219\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
WCAL1	1.00	1.00	1.00	INITIAL CALIB. PT1 0.50/5.00 ug/L, 5.0	12 Nov 2019	10:36
WCAL2	1.00	1.00	1.00	INITIAL CALIB. PT2 1.00/10.00 ug/L, 5.0	12 Nov 2019	11:06
WCAL3	1.00	1.00	1.00	INITIAL CALIB. PT3 2.00/20.0 ug/L, 5.0	12 Nov 2019	11:36
WCAL4	1.00	1.00	1.00	INITIAL CALIB. PT4 5.00/50.0 ug/L, 5.0	12 Nov 2019	12:06
WCAL5	1.00	1.00	1.00	INITIAL CALIB. PT5 10.0/100.0 ug/L, 5.0	12 Nov 2019	12:35
WCAL6	1.00	1.00	1.00	INITIAL CALIB. PT6 20.0/200.0 ug/L, 5.0	12 Nov 2019	13:05
WCAL7	1.00	1.00	1.00	INITIAL CALIB. PT7 30.0/300.0 ug/L, 5.0	12 Nov 2019	13:34
WCAL8	1.00	1.00	1.00	INITIAL CALIB. PT8 40.0/400.0 ug/L, 5.0	12 Nov 2019	14:03
WCAL9	1.00	1.00	1.00	INITIAL CALIB. PT9 80.0/800.0 ug/L, 5.0	12 Nov 2019	14:33
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 10.0/100 ug/L, 5.0 m	12 Nov 2019	15:32
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 30.0/300 ug/L, 5.0 m	12 Nov 2019	16:01
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK pH<2, 5.0 mL DI H20	12 Nov 2019	17:01

BFB

Data File : C:\Instarch\Data\NOV1419\BFB1.D Vial: 1
Acq On : 14 Nov 2019 13:00 Operator: RLD-DGS
Sample : 166500,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W111219.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.597 to 4.610 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	9050	PASS
75	95	30	60	55.8	27448	PASS
95	95	100	100	100.0	49179	PASS
96	95	5	9	7.9	3892	PASS
173	174	0.00	2	0.5	208	PASS
174	95	50	100	84.7	41650	PASS
175	174	5	9	6.2	2599	PASS
176	174	95	101	96.7	40264	PASS
177	176	5	9	6.4	2566	PASS

W111219.M Thu Nov 21 10:37:45 2019

BFB

Data File : C:\Instarch\Data\NOV1419\BFB2.D Vial: 25
Acq On : 15 Nov 2019 7:52 Operator: RLD-DGS
Sample : 166501,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W111219.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.573 to 4.591 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	20750	PASS
75	95	30	60	54.1	54082	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	8.3	8295	PASS
173	174	0.00	2	1.9	1331	PASS
174	95	50	100	71.1	71075	PASS
175	174	5	9	7.4	5230	PASS
176	174	95	101	98.7	70161	PASS
177	176	5	9	8.0	5639	PASS

W111219.M Thu Nov 21 10:38:15 2019

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1419\BFB1.D
Injection Date : 14 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 13:00 Total files within period : 37
Sample Directory : C:\INSTARCH\DATA\NOV1419\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCV-LCS1	1.00	1.00	1.00	166500,LCSW, 10.0/100 ug/L, 5.0 mL Pur	14 Nov 2019	13:15
MB1	1.00	1.00	1.00	166500,MBW, pH<2, 5.0 mL DI H20 Purge	14 Nov 2019	14:14
356164	1.00	1.00	1.00	166500,356164, pH<2, 5.0 mL Purged + IS	14 Nov 2019	14:44
356190	1.00	1.00	1.00	166500,356190, pH<2, 5.0 mL Purged + IS	14 Nov 2019	15:14
356220	1.00	1.00	1.00	166500,356220, pH<2, 5.0 mL Purged + IS	14 Nov 2019	15:44
356223	1.00	1.00	1.00	166500,356223, pH<2, 5.0 mL Purged + IS	14 Nov 2019	16:14
356207	1.00	1.00	1.00	166500,356207, pH<2, 5.0 mL Purged + IS	14 Nov 2019	16:44
356208	1.00	1.00	1.00	166500,356208, pH<2, 5.0 mL Purged + IS	14 Nov 2019	17:14
356211	1.00	1.00	1.00	166500,356211, pH<2, 5.0 mL Purged + IS	14 Nov 2019	17:44
356209	1.00	1.00	1.00	166500,356209,50 pH<2, 5.0 mL Purged + IS	14 Nov 2019	18:13
356210	1.00	1.00	1.00	166500,356210,50 pH<2, 5.0 mL Purged + IS	14 Nov 2019	18:43
356212	1.00	1.00	1.00	166500,356212,10 pH<2, 5.0 mL Purged + IS	14 Nov 2019	19:12
356213	1.00	1.00	1.00	166500,356213,2000 pH<2, 5.0 mL Purged + IS	14 Nov 2019	19:42
356214	1.00	1.00	1.00	166500,356214,20 pH<2, 5.0 mL Purged + IS	14 Nov 2019	20:13
356215	1.00	1.00	1.00	166500,356215,200 pH<2, 5.0 mL Purged + IS	14 Nov 2019	20:43
356216	1.00	1.00	1.00	166500,356216,500 pH<2, 5.0 mL Purged + IS	14 Nov 2019	21:12
356217	1.00	1.00	1.00	166500,356217,500 pH<2, 5.0 mL Purged + IS	14 Nov 2019	21:43
356221	1.00	1.00	1.00	166500,356221,500 pH<2, 5.0 mL Purged + IS	14 Nov 2019	22:13
356224	1.00	1.00	1.00	166500,356224,10 pH<2, 5.0 mL Purged + IS	14 Nov 2019	22:43
356207MS	1.00	1.00	1.00	166500,MSW356207, pH<2, 5.0 mL Purged + IS	14 Nov 2019	23:13
356207SD	1.00	1.00	1.00	166500,MSDW356207, pH<2, 5.0 mL Purged + IS	14 Nov 2019	23:42

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1419\BFB1.D
Injection Date : 14 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 13:00 Total files within period : 37
Sample Directory : C:\INSTARCH\DATA\NOV1419\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCVF-L~1	1.00	1.00	1.00	166500,LCSDW, 10.0/100 ug/L, 5.0 mL Pur	15 Nov 2019	00:13
BFB2	1.00	1.00	1.00	166501,BFB, 50 ng Inj.	15 Nov 2019	07:52
CCV-LCS2	1.00	1.00	1.00	166501,LCSW, 10.0/100 ug/L, 5.0 mL Pur	15 Nov 2019	09:43
MB2-CCB1	1.00	1.00	1.00	166501,MBW, pH<2, 5.0 mL DI H20 Purge	15 Nov 2019	10:42
356229	1.00	1.00	1.00	166501,356229, pH<2, 5.0 mL Purged + IS	15 Nov 2019	11:12
356230	1.00	1.00	1.00	166501,356230, pH<2, 5.0 mL Purged + IS	15 Nov 2019	11:42
356225	1.00	1.00	1.00	166501,356225,5000 pH<2, 5.0 mL Purged + IS	15 Nov 2019	12:12
356227	1.00	1.00	1.00	166501,356227,2000 pH<2, 5.0 mL Purged + IS	15 Nov 2019	12:42
356228	1.00	1.00	1.00	166501,356228,2000 pH<2, 5.0 mL Purged + IS	15 Nov 2019	13:11
356211R	1.00	1.00	1.00	166500,356211,5 pH<2, 5.0 mL Purged + IS	15 Nov 2019	13:41
356227MS	1.00	1.00	1.00	166501,MSW356227,2000 pH<2, 5.0 mL Purged + IS	15 Nov 2019	14:11
356227SD	1.00	1.00	1.00	166501,MSDW356227,2000 pH<2, 5.0 mL Purged + IS	15 Nov 2019	14:40
CCVF2	1.00	1.00	1.00	166501,CCVF, 10.0/100 ug/L, 5.0 mL Pur	15 Nov 2019	15:10

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): WCAL5.D Date Analyzed : 12 Nov 2019
Instrument ID : VMS3 Time Analyzed : 12:35
GC Column : DB-624UI ID : VMS3(mm) Heated Purge (Y:N) : N

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1084091	7.64	832091	11.54	460945	14.83
UPPER LIMIT	2168182	8.14	1664182	12.04	921890	15.33
LOWER LIMIT	542046	7.14	416046	11.04	230473	14.33
File ID Sample						
356164 166500,35	1035761	7.63	788645	11.54	419195	14.83
356190 166500,35	1058496	7.63	812251	11.54	427977	14.84
356207 166500,35	1057548	7.63	798793	11.54	421972	14.83
356207MS 166500,MS	1112053	7.63	850402	11.54	470251	14.83
356207SD 166500,MS	1100206	7.63	849387	11.54	470307	14.84
356208 166500,35	1046414	7.64	804317	11.54	430615	14.83
356209 166500,35	1017426	7.63	776511	11.54	413911	14.83
356210 166500,35	1034471	7.63	792660	11.54	416198	14.84
356211 166500,35	1015711	7.63	799666	11.54	410226	14.83
356211R 166500,35	1028363	7.63	792529	11.54	402473	14.83
356212 166500,35	1004417	7.63	781048	11.54	408560	14.84
356213 166500,35	1016749	7.63	796322	11.54	411703	14.83
356214 166500,35	1043740	7.63	788406	11.54	406506	14.84
356215 166500,35	1020588	7.64	795443	11.54	412313	14.83
356216 166500,35	1027105	7.63	791784	11.54	411787	14.84
356217 166500,35	1038858	7.63	784247	11.54	414865	14.83
356220 166500,35	1035045	7.63	802035	11.54	415128	14.83
356221 166500,35	1026824	7.63	788143	11.54	407650	14.84
356223 166500,35	1056058	7.64	808820	11.54	421132	14.84
356224 166500,35	1017023	7.64	795792	11.54	404001	14.83
356225 166501,35	1023966	7.63	803224	11.54	418035	14.83
356227 166501,35	1014913	7.63	796229	11.54	406916	14.83
356227MS 166501,MS	1067285	7.63	828204	11.54	463390	14.83
356227SD 166501,MS	1110857	7.63	849289	11.54	466707	14.83
356228 166501,35	995555	7.63	788005	11.54	410868	14.84

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): WCAL5.D Date Analyzed : 12 Nov 2019
Instrument ID : VMS3 Time Analyzed : 12:35
GC Column : DB-624UI ID : VMS3(mm) Heated Purge (Y:N) : N

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1084091	7.64	832091	11.54	460945	14.83
UPPER LIMIT	2168182	8.14	1664182	12.04	921890	15.33
LOWER LIMIT	542046	7.14	416046	11.04	230473	14.33
File ID Sample						
356229 166501,35	1018077	7.63	787156	11.54	406661	14.84
356230 166501,35	1011055	7.64	806909	11.54	414585	14.83
CCVF2 166501,CC	1109212	7.63	846161	11.54	473030	14.83
CCVF-L~1 166500,LC	1128875	7.63	850600	11.54	478467	14.83
CCV-LCS1 166500,LC	1136498	7.64	875878	11.54	483248	14.83
CCV-LCS2 166501,LC	1092650	7.63	839950	11.54	460413	14.83
MB1 166500,MB	1036380	7.63	805961	11.54	422763	14.83
MB2-CCB1 166501,MB	1040496	7.63	799913	11.54	420322	14.84

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

BFB

Data File : C:\Instarch\Data\NOV2419B\BFB1.D Vial: 1
Acq On : 24 Nov 2019 22:03 Operator: RLD-DGS
Sample : 165549,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W112419.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.573 to 4.585 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	16440	PASS
75	95	30	60	55.9	55854	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	5.1	5106	PASS
173	174	0.00	2	1.0	819	PASS
174	95	50	100	82.3	82296	PASS
175	174	5	9	5.2	4256	PASS
176	174	95	101	98.5	81067	PASS
177	176	5	9	6.8	5484	PASS

W112419.M Wed Dec 11 15:23:36 2019

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Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W112419.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV2419B\BFB1.D
Injection Date : 24 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 22:03 Total files within period : 17
Sample Directory : C:\INSTARCH\DATA\NOV2419B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
WCAL1	1.00	1.00	1.00	INITIAL CALIB. PT1 0.50/5.00 ug/L, 5.0	24 Nov 2019	23:49
WCAL2	1.00	1.00	1.00	INITIAL CALIB. PT2 1.00/10.00 ug/L, 5.0	25 Nov 2019	00:19
WCAL3	1.00	1.00	1.00	INITIAL CALIB. PT3 2.00/20.0 ug/L, 5.0	25 Nov 2019	00:50
WCAL4	1.00	1.00	1.00	INITIAL CALIB. PT4 5.00/50.0 ug/L, 5.0	25 Nov 2019	01:21
WCAL5	1.00	1.00	1.00	INITIAL CALIB. PT5 10.0/100.0 ug/L, 5.0	25 Nov 2019	01:51
WCAL6	1.00	1.00	1.00	INITIAL CALIB. PT6 20.0/200.0 ug/L, 5.0	25 Nov 2019	02:20
WCAL7	1.00	1.00	1.00	INITIAL CALIB. PT7 30.0/300.0 ug/L, 5.0	25 Nov 2019	02:52
WCAL8	1.00	1.00	1.00	INITIAL CALIB. PT8 40.0/400.0 ug/L, 5.0	25 Nov 2019	03:22
WCAL9	1.00	1.00	1.00	INITIAL CALIB. PT9 80.0/800.0 ug/L, 5.0	25 Nov 2019	03:51
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 10.0/100 ug/L, 5.0 m	25 Nov 2019	04:53
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 30.0/300 ug/L, 5.0 m	25 Nov 2019	05:22
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK pH<2, 5.0 mL DI H20	25 Nov 2019	06:24

BFB

Data File : C:\Instarch\Data\NOV3019B\BFB2.D Vial: 26
Acq On : 1 Dec 2019 8:21 Operator: RLD-DGS
Sample : 167041,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W112419.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.579 to 4.609 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	16178	PASS
75	95	30	60	50.3	50262	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.8	6850	PASS
173	174	0.00	2	0.7	740	PASS
174	95	50	100	99.8	99751	PASS
175	174	5	9	8.7	8696	PASS
176	174	95	101	98.8	98517	PASS
177	176	5	9	6.9	6799	PASS

W112419.M Mon Dec 02 10:39:33 2019

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV3019B\BFB2.D
Injection Date : 01 Dec 2019 Log Time Period (hrs) : ALL
Injection Time : 08:21 Total files within period : 27
Sample Directory : C:\INSTARCH\DATA\NOV3019B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCV-LCS2	1.00	1.00	1.00	167041,LCSW, 10.0/100 ug/L, 5.0 mL Pur	1 Dec 2019	08:37
TLCS1	1.00	1.00	1.00	167058,LCSW,100 pH5, 10.0/100 ug/L, 5.0 m	1 Dec 2019	14:04
TMB1	1.00	1.00	1.00	167058,MBW,100 pH5, 5.0 mL Purged + IS/	1 Dec 2019	14:34
356218	1.00	1.00	1.00	167058,356218,100 pH5, 5.0 mL Purged + IS/	1 Dec 2019	15:04
TLCSD1	1.00	1.00	1.00	167057,LCDSW,100 pH5, 10.0/100 ug/L, 5.0 m	1 Dec 2019	19:02

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): WCAL5.D Date Analyzed : 25 Nov 2019
Instrument ID : VMS3 Time Analyzed : 1:51
GC Column : DB-624UI ID : VMS3(mm) Heated Purge (Y:N) : N

	IS1		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1006050	7.64	838976	11.54	497535	14.84
UPPER LIMIT	2012100	8.14	1677952	12.04	995070	15.34
LOWER LIMIT	503025	7.14	419488	11.04	248768	14.34
File ID Sample						
356218 167058,35	1104113	7.63	917110	11.54	513832	14.84
CCV-LCS2 167041,LC	1181947	7.64	962285	11.54	574338	14.84
TLCS1 167058,LC	1222334	7.63	1010947	11.54	597291	14.83
TLCSD1 167057,LC	1172471	7.64	977484	11.54	580872	14.84
TMB1 167058,MB	1139703	7.63	952047	11.54	521548	14.83

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

VOLATILE ORGANIC ANALYSIS
SAMPLE DATA
DOCUMENTS

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356170.D Vial: 6
Acq On : 12 Nov 2019 18:46 Operator: RLD-DGS
Sample : 166497,356170, Inst : VMS4
Misc : 4.78g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 19:06:52 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1049140	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	839304	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	473029	0.02 mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	262666	0.020 mg/kg	0.00	
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	58860	0.022 mg/kg	0.00	
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.67	98	1058387	0.020 mg/kg	0.00	
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	380339	0.020 mg/kg	0.00	
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			

Target Compounds					Qvalue
2) Dichlorodi	1.82	85	2122	N.D.	
3) Chloromethan	2.06	50	2551	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	3792	Below Cal	88
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	20731	N.D.	
16) Iodomethane	4.14	142	4455	0.0016 mg/kg#	44
17) Carbon Dislf	4.20	76	3243	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	21822	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.80	59	10271	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	2684	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	1418	N.D.	
31) 22dichloropr	6.18	77	3227	N.D.	
32) c12dichlorte	6.23	96	7453	0.0005 mg/kg#	85
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356170.D Vial: 6
Acq On : 12 Nov 2019 18:46 Operator: RLD-DGS
Sample : 166497,356170, Inst : VMS4
Misc : 4.78g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 19:06:52 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.	
40) 111trichlota	0.00	97	0	N.D.	
42) Cyclohexane	0.00	56	0	N.D.	
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	7.34	78	1111	N.D.	
47) 12dichlorota	0.00	62	0	N.D.	
48) TAME	0.00	73	0	N.D.	
49) trichloroete	8.12	95	204757	0.0147 mg/kg	97
50) methylcyclohexane	0.00	83	0	N.D.	
51) 12dicloropra	0.00	63	0	N.D.	
52) 23dicl1propene	0.00	75	0	N.D.	
53) Dibromometha	0.00	93	0	N.D.	
54) methylmethacrylate	0.00	69	0	N.D.	
55) 14dioxane	0.00	88	0	N.D.	
56) Bromodiclrma	0.00	83	0	N.D.	
57) 2Nitropropane	0.00	43	0	N.D.	
58) c13dicloproe	0.00	75	0	N.D.	
59) 4Meth2Pentan	9.52	43	9908	N.D.	
61) Toluene	9.76	92	3208	N.D.	
62) t13Dicloprop	0.00	75	0	N.D.	
63) ethylmethacrylate	0.00	69	0	N.D.	
64) 112Triclotha	0.00	83	0	N.D.	
65) Tetrachlorte	0.00	166	0	N.D.	
66) 13Diclorpropa	0.00	76	0	N.D.	
68) 2Hexanone	10.66	43	2468	N.D.	
69) Clorodibrmta	0.00	129	0	N.D.	
70) 12Dibrometha	0.00	107	0	N.D.	
71) Chlorobenzen	0.00	112	0	N.D.	
72) 1Clhexane	11.60	91	1959	N.D.	
73) 1112Tetclota	0.00	131	0	N.D.	
74) Ethylbenzene	11.78	91	1525	N.D.	
75) m p-Xylene	11.93	106	1070	N.D.	
76) o-Xylene	0.00	106	0	N.D.	
77) Styrene	12.56	104	1180	N.D.	
78) Bromoform	0.00	173	0	N.D.	
79) Isopropylben	0.00	105	0	N.D.	
81) cyclohexanone	13.23	55	1587	N.D.	
83) Bromobenzene	0.00	156	0	N.D.	
84) 1122Tetrclta	0.00	83	0	N.D.	
85) 123Triclproa	13.56	75	10144	0.0005 mg/kg#	34
86) 14dichloro2butene	0.00	53	0	N.D.	
87) n-Propylbenz	13.61	91	1728	N.D.	
88) 2chlorotolue	13.75	91	1250	N.D.	
89) 4chlorotolue	13.89	91	1451	N.D.	
90) 135Trimebenz	13.85	105	1323	N.D.	
91) tbutylbenzen	0.00	119	0	N.D.	
92) 124Trimetben	14.41	105	3493	N.D.	
93) sbutylbenzen	14.64	105	1027	N.D.	
94) 13Diclorbenz	14.81	146	1172	N.D.	
95) pIsopropylto	14.87	119	1508	N.D.	
96) 14dichlorobe	14.92	146	1404	N.D.	
97) 12dichlorobe	15.46	146	1555	N.D.	
98) nButylbenzen	15.46	91	3115	N.D.	
99) 12dibromo3cl	0.00	157	0	N.D.	
100) 135Trichlorobenzene	0.00	180	0	N.D.	
101) 124Trichlobe	17.72	180	1992	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356170.D Vial: 6
Acq On : 12 Nov 2019 18:46 Operator: RLD-DGS
Sample : 166497,356170, Inst : VMS4
Misc : 4.78g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 19:06:52 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.02	128	9286	N.D.	
104) 123Trichlben	18.34	180	2095	N.D.	

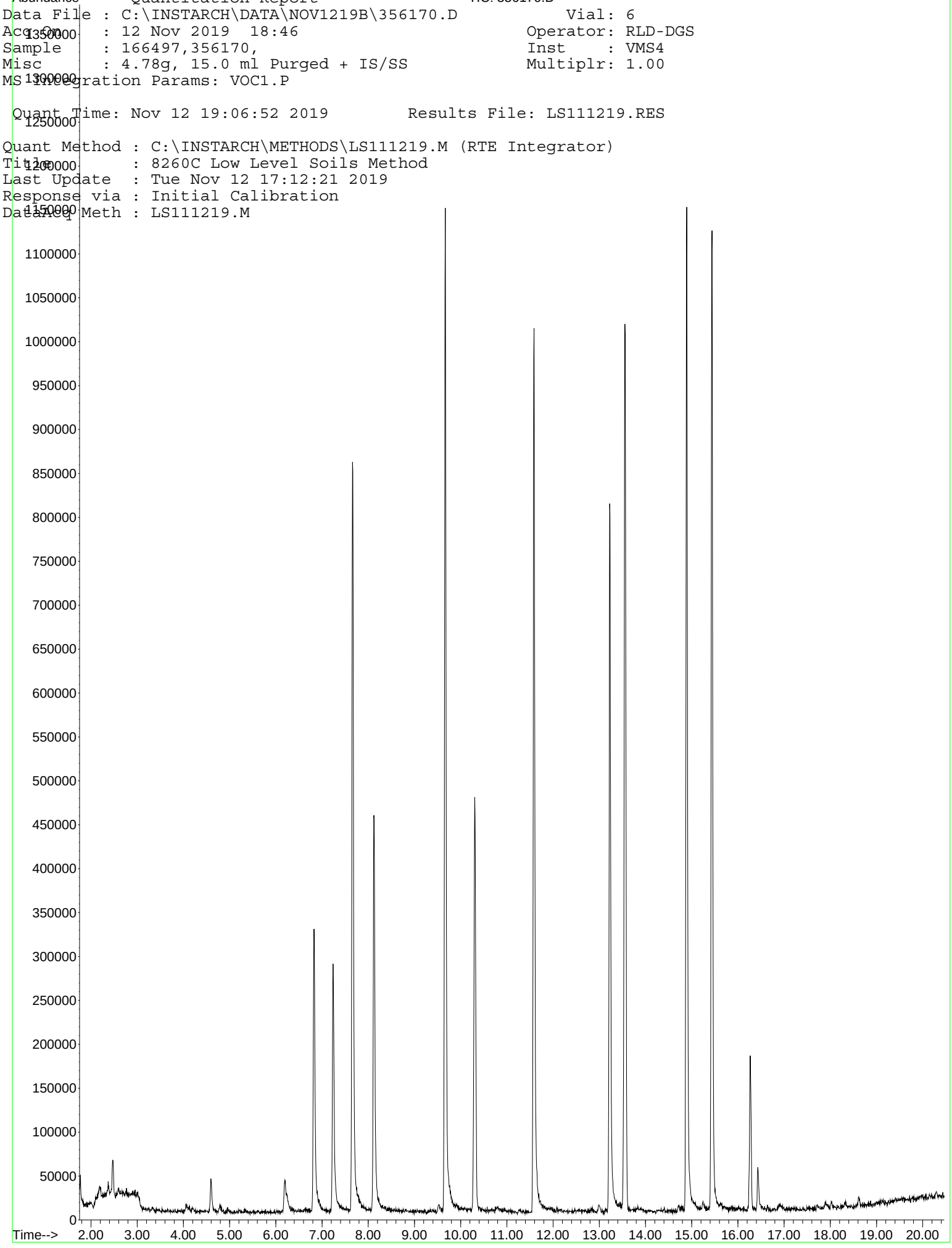
(#) = qualifier out of range (m) = manual integration

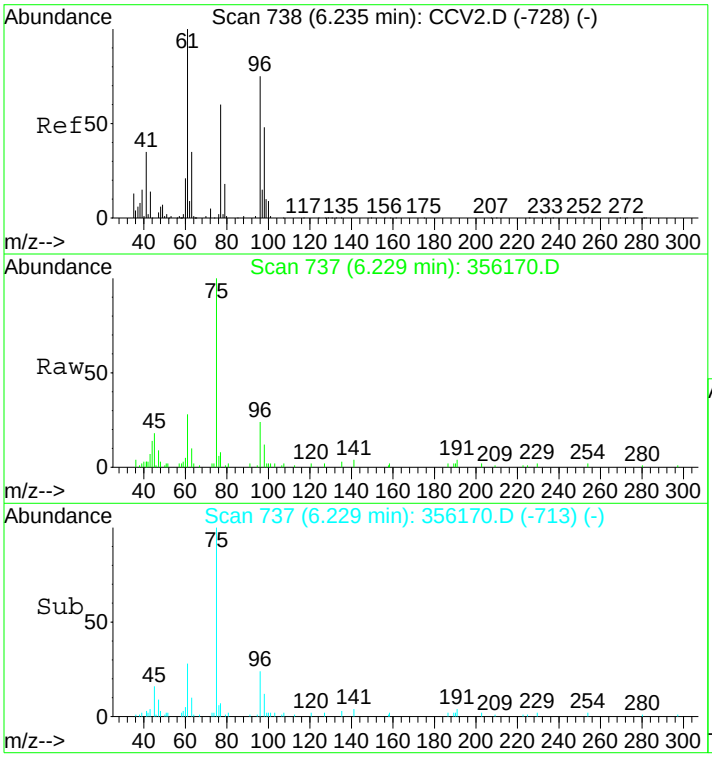
Abundance Quantitation Report TIC: 356170.D

Data File : C:\INSTARCH\DATA\NOV1219B\356170.D Vial: 6
Acq On : 12 Nov 2019 18:46 Operator: RLD-DGS
Sample : 166497,356170, Inst : VMS4
Misc : 4.78g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 19:06:52 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

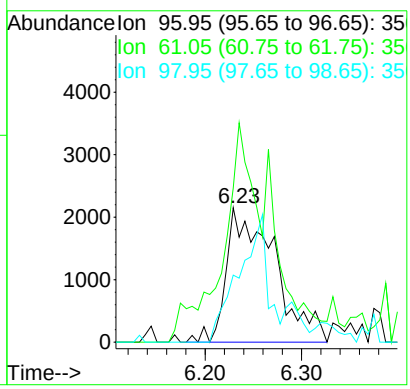


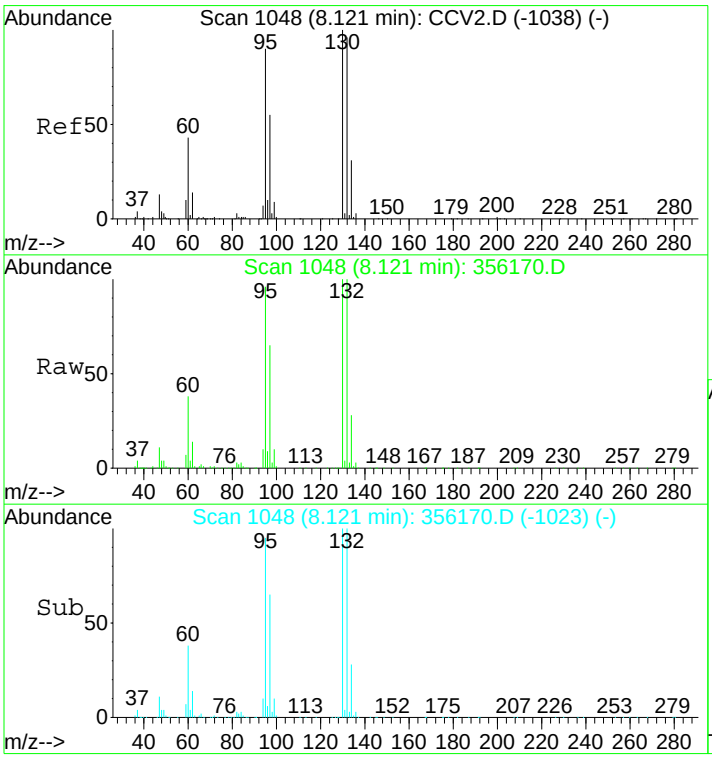


#32
c12dichlorte
Concen: 0.00 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356170.D
Acq: 12 Nov 2019 18:46

Tgt Ion: 96 Resp: 7453

Ion	Ratio	Lower	Upper
96	100		
61	169.4	128.4	168.4#
98	74.3	44.3	84.3

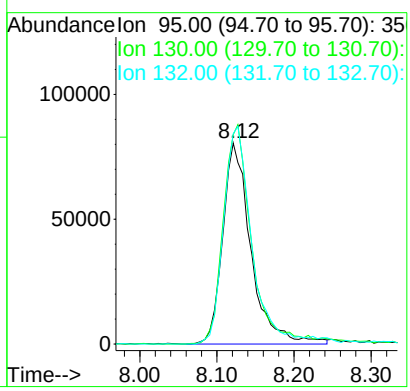


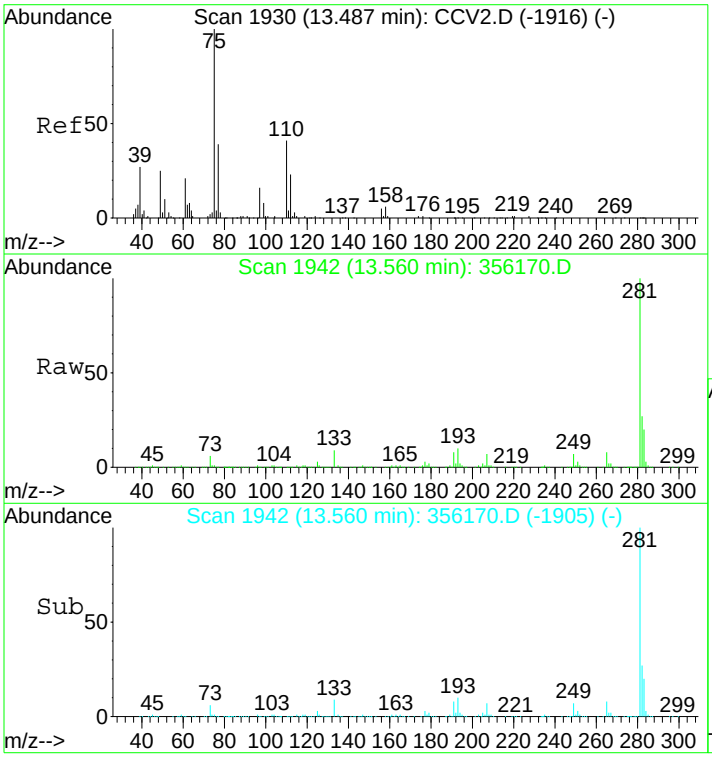


#49
trichloroete
Concen: 0.01 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356170.D
Acq: 12 Nov 2019 18:46

Tgt Ion: 95 Resp: 204757

Ion	Ratio	Lower	Upper
95	100		
130	110.6	94.7	134.7
132	109.5	91.8	131.8

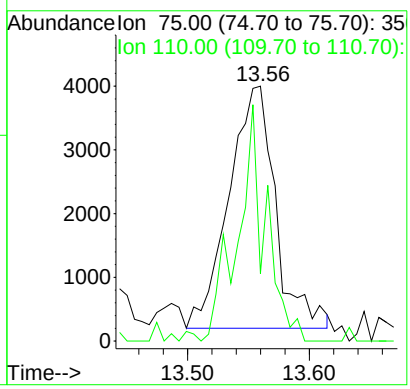




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.56 min Scan# 1942
Delta R.T. 0.07 min
Lab File: 356170.D
Acq: 12 Nov 2019 18:46

Tgt Ion: 75 Resp: 10144

Ion	Ratio	Lower	Upper
75	100		
110	59.0	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356171.D Vial: 7
Acq On : 12 Nov 2019 19:15 Operator: RLD-DGS
Sample : 166497,356171, Inst : VMS4
Misc : 5.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 19:35:49 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	870444	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	680210	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	345281	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	226652	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	50949	0.023 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %		
60) SURRd8Tolule	9.67	98	857240	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	295217	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2483	N.D.	
3) Chloromethan	2.06	50	2834	N.D.	
4) VinylChlorid	2.21	62	1175	N.D.	
5) Bromomethane	2.69	94	4564	Below Cal	95
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.07	43	23468	N.D.	
16) Iodomethane	4.14	142	3532	0.0015 mg/kg#	83
17) Carbon Dislf	4.20	76	2806	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	16937	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	14000	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	2078	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.18	59	2498	N.D.	
31) 22dichloropr	6.19	77	6510	0.0004 mg/kg#	45
32) c12dichlorte	6.25	96	20032	0.0016 mg/kg	98
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.64	42	1179	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356171.D Vial: 7
Acq On : 12 Nov 2019 19:15 Operator: RLD-DGS
Sample : 166497,356171, Inst : VMS4
Misc : 5.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 19:35:49 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.	
40) 111trichlota	0.00	97	0	N.D.	
42) Cyclohexane	0.00	56	0	N.D.	
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	7.31	78	2104	N.D.	
47) 12dichlorota	0.00	62	0	N.D.	
48) TAME	0.00	73	0	N.D.	
49) trichloroete	8.13	95	43875	0.0038 mg/kg	93
50) methylcyclohexane	0.00	83	0	N.D.	
51) 12dicloropra	0.00	63	0	N.D.	
52) 23dicl1propene	0.00	75	0	N.D.	
53) Dibromometha	0.00	93	0	N.D.	
54) methylmethacrylate	0.00	69	0	N.D.	
55) 14dioxane	0.00	88	0	N.D.	
56) Bromodiclrma	0.00	83	0	N.D.	
57) 2Nitropropane	0.00	43	0	N.D.	
58) c13dicloproe	0.00	75	0	N.D.	
59) 4Meth2Pentan	9.53	43	7136	N.D.	
61) Toluene	9.76	92	4437	N.D.	
62) t13Dicloprop	0.00	75	0	N.D.	
63) ethylmethacrylate	0.00	69	0	N.D.	
64) 112Triclotha	0.00	83	0	N.D.	
65) Tetrachlorte	0.00	166	0	N.D.	
66) 13Diclorpropa	0.00	76	0	N.D.	
68) 2Hexanone	10.66	43	1766	N.D.	
69) Clorodibrmta	0.00	129	0	N.D.	
70) 12Dibrometha	0.00	107	0	N.D.	
71) Chlorobenzen	0.00	112	0	N.D.	
72) 1Clhexane	11.58	91	1579	N.D.	
73) 1112Tetclota	0.00	131	0	N.D.	
74) Ethylbenzene	11.80	91	1456	N.D.	
75) m p-Xylene	0.00	106	0	N.D.	
76) o-Xylene	0.00	106	0	N.D.	
77) Styrene	0.00	104	0	N.D.	
78) Bromoform	0.00	173	0	N.D.	
79) Isopropylben	0.00	105	0	N.D.	
81) cyclohexanone	0.00	55	0	N.D.	
83) Bromobenzene	0.00	156	0	N.D.	
84) 1122Tetrclta	0.00	83	0	N.D.	
85) 123Triclproa	13.47	75	1045	N.D.	
86) 14dichloro2butene	0.00	53	0	N.D.	
87) n-Propylbenz	0.00	91	0	N.D.	
88) 2chlorotolue	0.00	91	0	N.D.	
89) 4chlorotolue	13.90	91	1050	N.D.	
90) 135Trimebenz	0.00	105	0	N.D.	
91) tbutylbenzen	0.00	119	0	N.D.	
92) 124Trimetben	14.41	105	1800	N.D.	
93) sbutylbenzen	0.00	105	0	N.D.	
94) 13Diclorbenz	0.00	146	0	N.D.	
95) pIsopropylto	14.86	119	1154	N.D.	
96) 14dichlorobe	0.00	146	0	N.D.	
97) 12dichlorobe	15.47	146	1337	N.D.	
98) nButylbenzen	15.43	91	2063	N.D.	
99) 12dibromo3cl	0.00	157	0	N.D.	
100) 135Trichlorobenzene	0.00	180	0	N.D.	
101) 124Trichlobe	17.72	180	1369	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356171.D Vial: 7
Acq On : 12 Nov 2019 19:15 Operator: RLD-DGS
Sample : 166497,356171, Inst : VMS4
Misc : 5.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 19:35:49 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.02	128	6753	N.D.	
104) 123Trichlben	18.34	180	1500	N.D.	

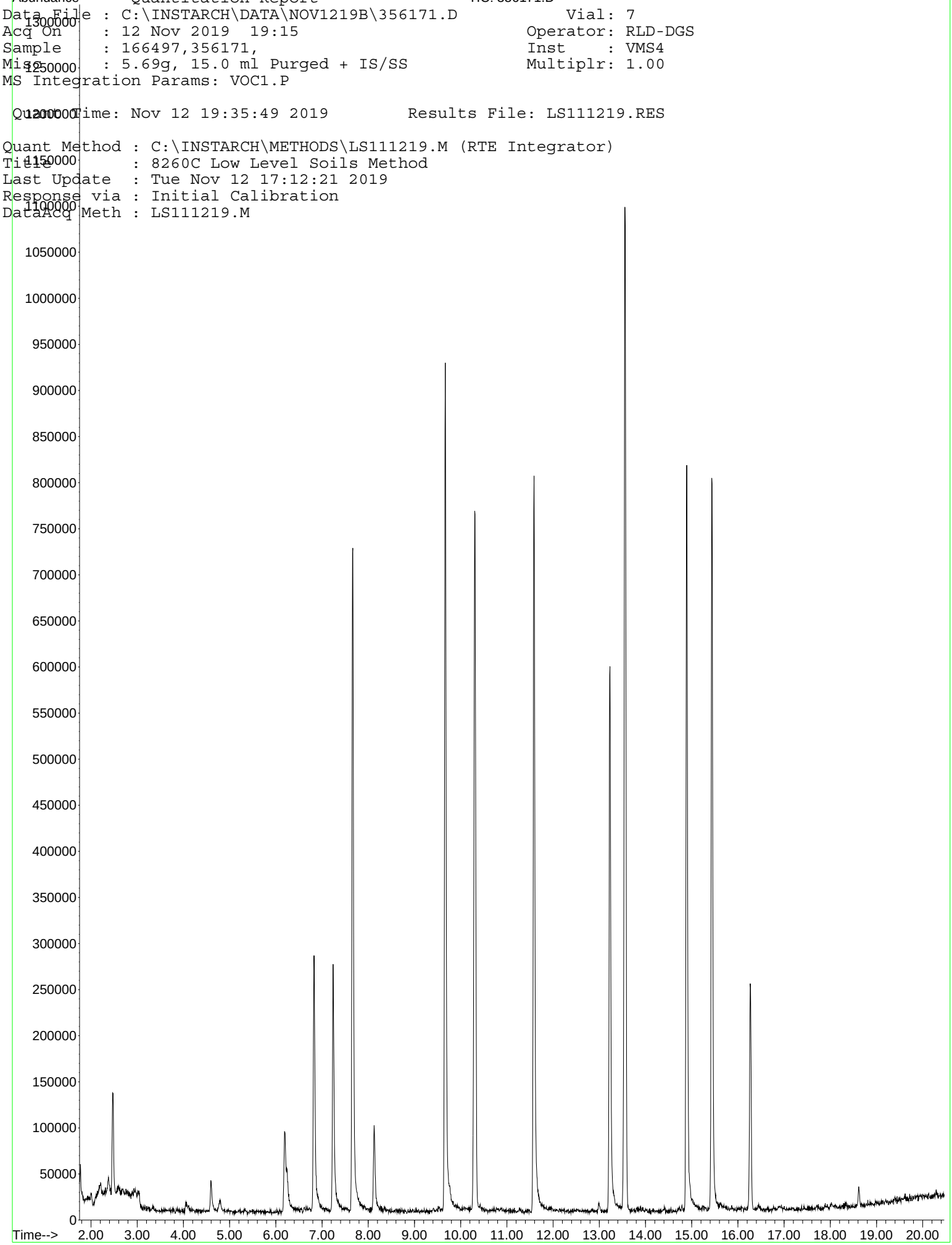
(#) = qualifier out of range (m) = manual integration

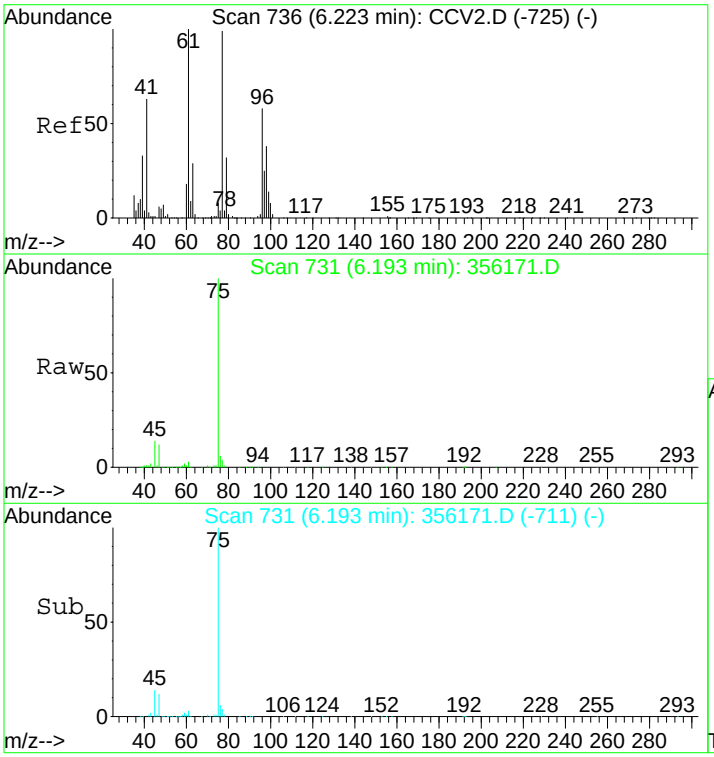
Abundance Quantitation Report TIC: 356171.D

Data File : C:\INSTARCH\DATA\NOV1219B\356171.D Vial: 7
Acq On : 12 Nov 2019 19:15 Operator: RLD-DGS
Sample : 166497,356171, Inst : VMS4
Misc : 5.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 19:35:49 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

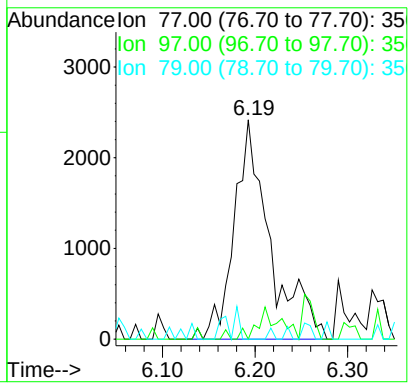




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.19 min Scan# 731
Delta R.T. -0.03 min
Lab File: 356171.D
Acq: 12 Nov 2019 19:15

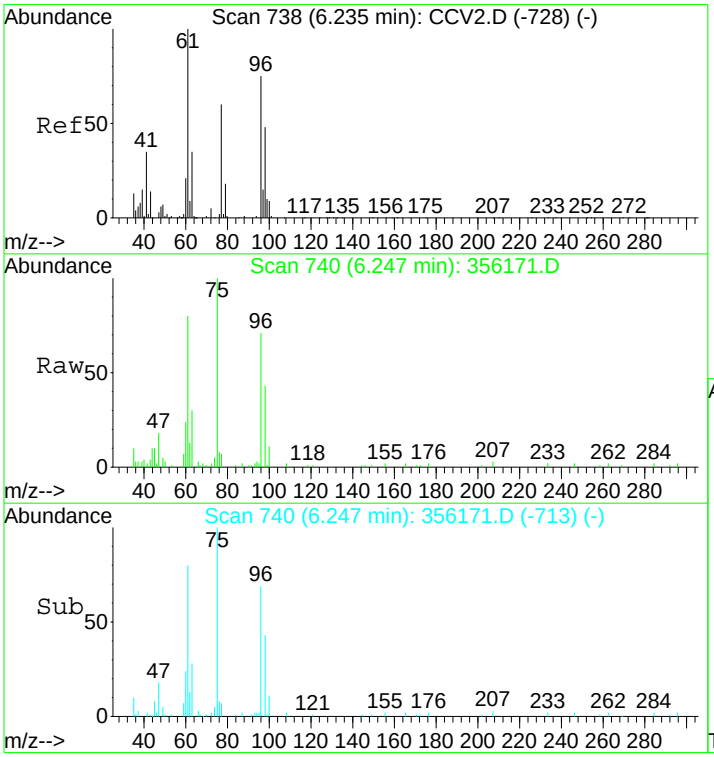
Tgt Ion: 77 Resp: 6510

Ion	Ratio	Lower	Upper
77	100		
97	0.0	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

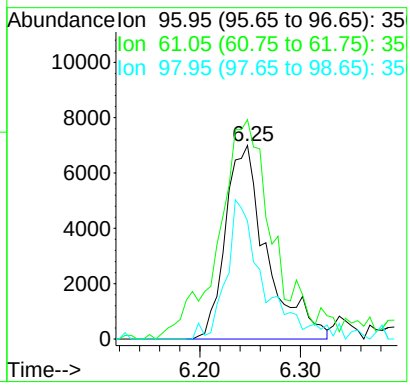
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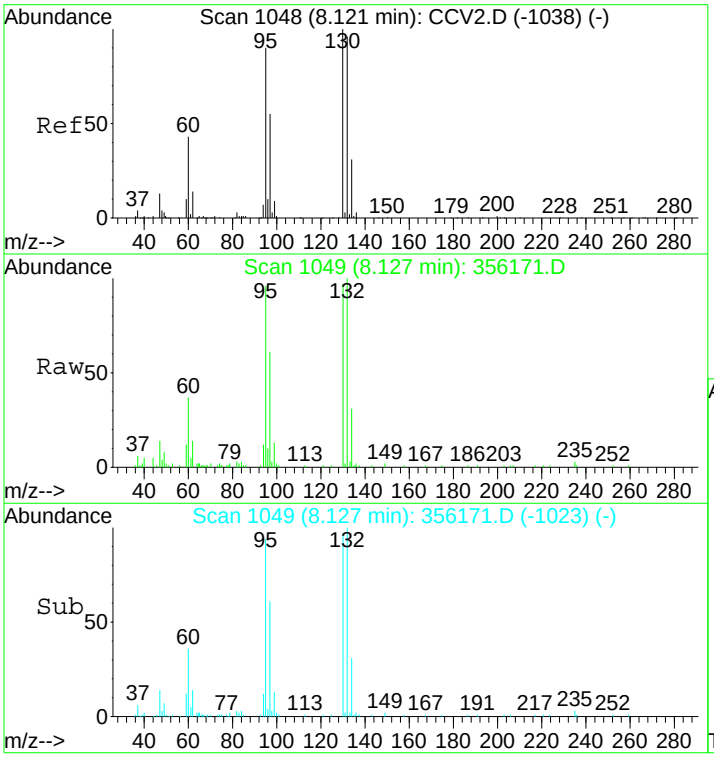


#32
c12dichlorte
Concen: 0.00 mg/kg
RT: 6.25 min Scan# 740
Delta R.T. 0.01 min
Lab File: 356171.D
Acq: 12 Nov 2019 19:15

Tgt Ion: 96 Resp: 20032

Ion	Ratio	Lower	Upper
96	100		
61	145.4	128.4	168.4
98	65.2	44.3	84.3

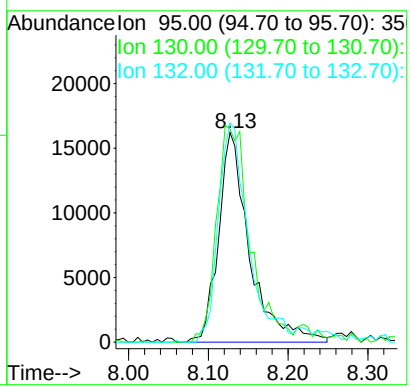




#49
trichloroete
Concen: 0.00 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356171.D
Acq: 12 Nov 2019 19:15

Tgt Ion: 95 Resp: 43875

Ion	Ratio	Lower	Upper
95	100		
130	110.3	94.7	134.7
132	101.0	91.8	131.8



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356172.D Vial: 8
Acq On : 12 Nov 2019 19:44 Operator: RLD-DGS
Sample : 166497,356172, Inst : VMS4
Misc : 4.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 20:04:45 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1076520	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	825960	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	413498	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	276725	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	59864	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	1064056	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	365395	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 110 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2322	N.D.	
3) Chloromethan	2.07	50	1660	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	3381	Below Cal	97
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	33715	N.D.	
16) Iodomethane	4.13	142	2045	0.0011 mg/kg#	44
17) Carbon Dislf	4.20	76	3506	N.D.	
18) allylchloride	4.48	41	1109	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	17845	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	17982	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.32	57	2141	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	3558	N.D.	
31) 22dichloropr	6.19	77	8834	0.0005 mg/kg#	45
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.62	42	2706	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356172.D Vial: 8
Acq On : 12 Nov 2019 19:44 Operator: RLD-DGS
Sample : 166497,356172, Inst : VMS4
Misc : 4.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 20:04:45 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.31	78	3285	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	4721	0.0003 mg/kg#	70
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	5237	N.D.	
61)	Toluene	9.76	92	6988	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	0.00	83	0	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.68	43	1949	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.59	91	2271	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.79	91	1173	N.D.	
75)	m p-Xylene	11.95	106	1538	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.45	75	1762	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.61	91	1445	N.D.	
88)	2chlorotolue	13.61	91	1342	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	13.86	105	1159	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	2538	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	14.83	146	1039	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	15.46	146	1046	N.D.	
98)	nButylbenzen	15.46	91	3121	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	16.88	180	1007	N.D.	
101)	124Trichlobe	17.71	180	1724	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356172.D Vial: 8
Acq On : 12 Nov 2019 19:44 Operator: RLD-DGS
Sample : 166497,356172, Inst : VMS4
Misc : 4.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 20:04:45 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	5937	N.D.	
104) 123Trichlben	18.32	180	1072	N.D.	

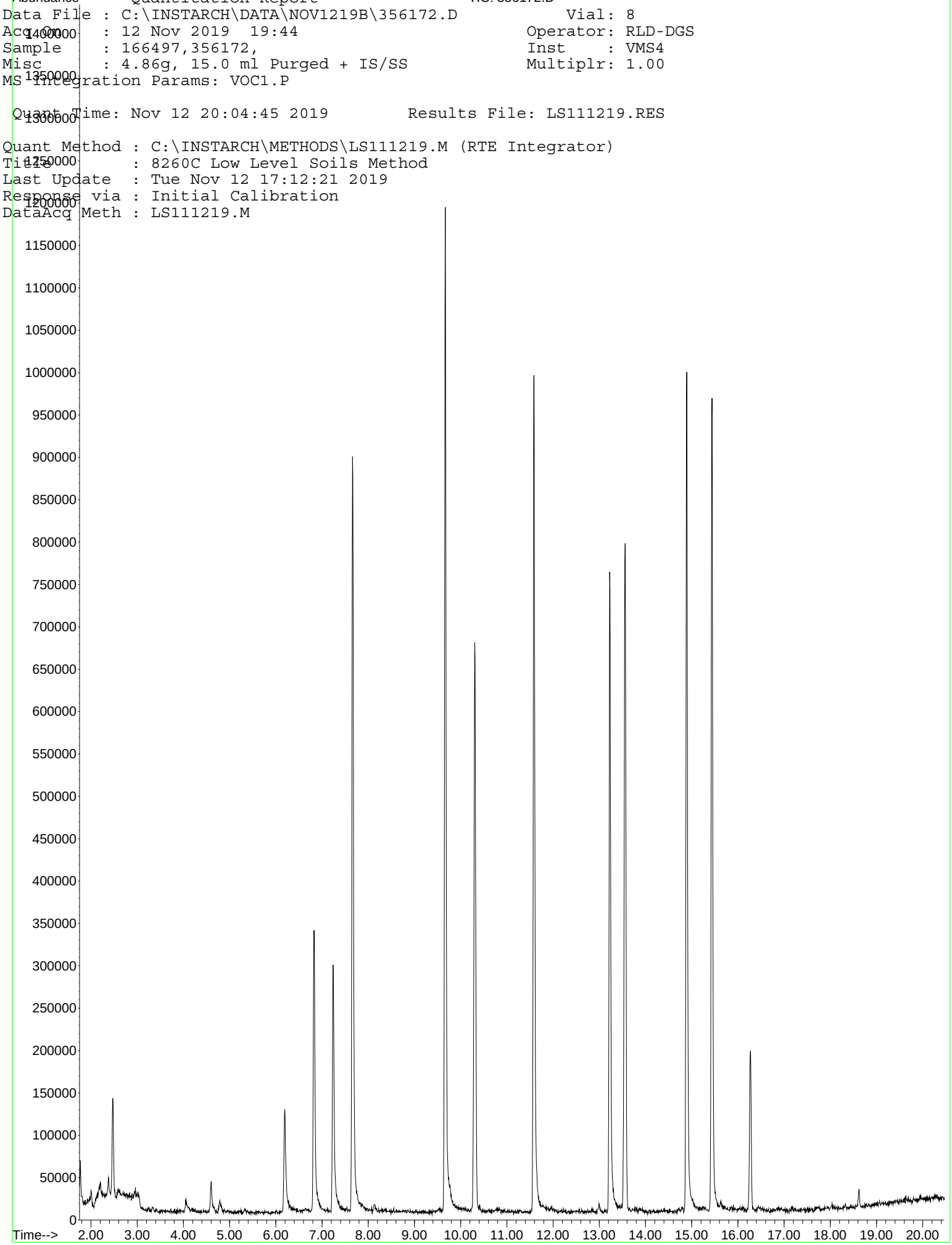
(#) = qualifier out of range (m) = manual integration

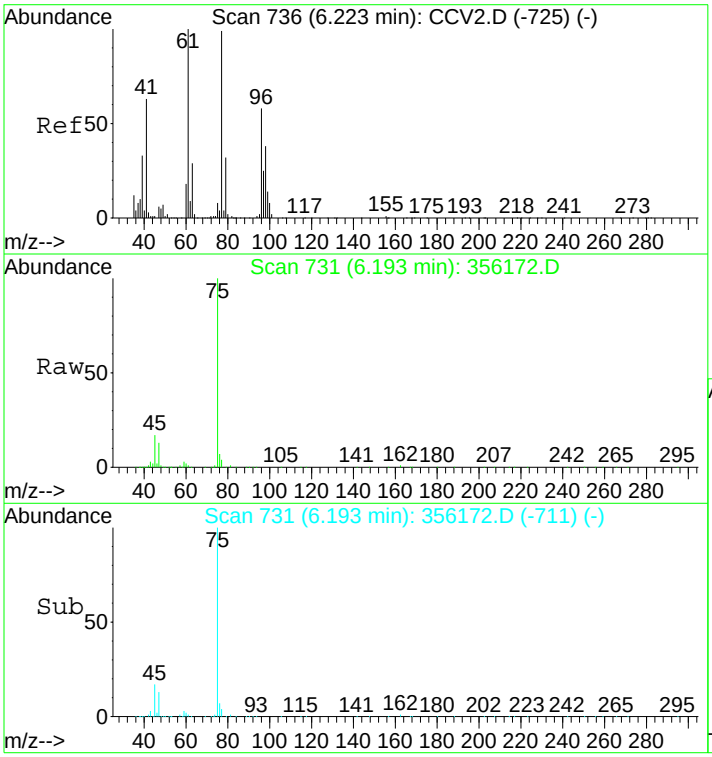
Abundance Quantitation Report TIC: 356172.D

Data File : C:\INSTARCH\DATA\NOV1219B\356172.D Vial: 8
Acq On : 12 Nov 2019 19:44 Operator: RLD-DGS
Sample : 166497,356172, Inst : VMS4
Misc : 4.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 20:04:45 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

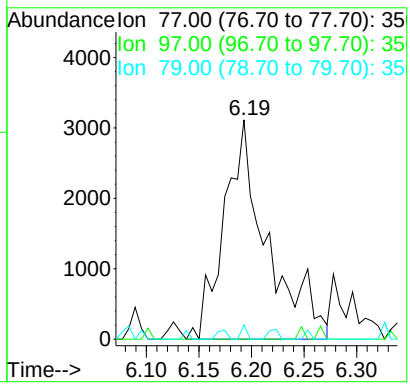




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.19 min Scan# 731
Delta R.T. -0.03 min
Lab File: 356172.D
Acq: 12 Nov 2019 19:44

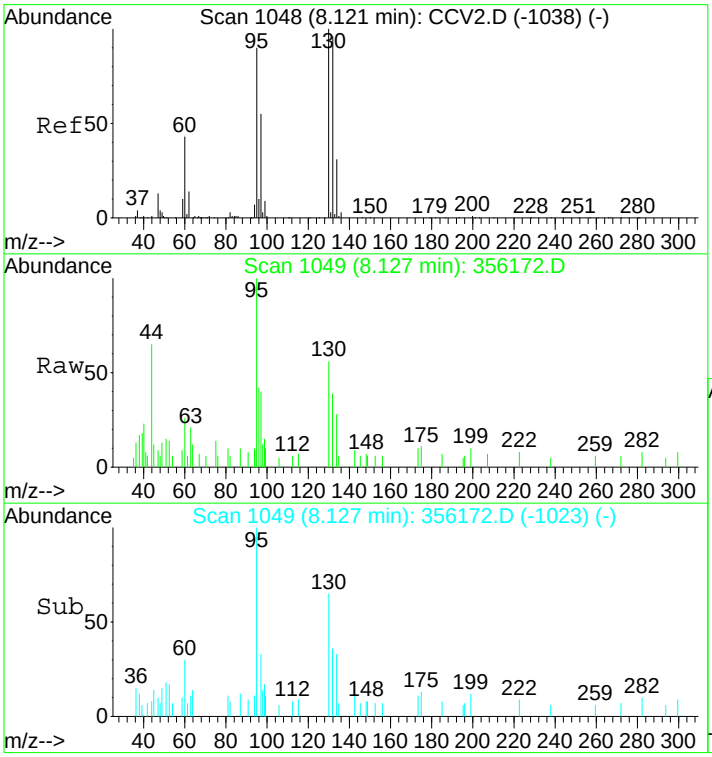
Tgt Ion: 77 Resp: 8834

Ion	Ratio	Lower	Upper
77	100		
97	0.0	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

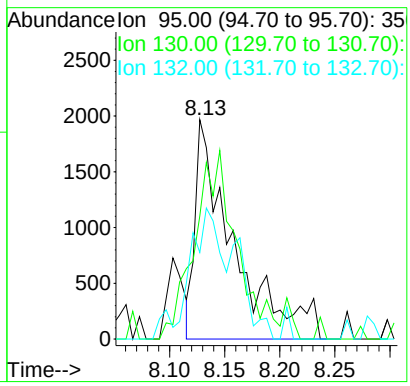
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#49
trichloroete
Concen: 0.00 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356172.D
Acq: 12 Nov 2019 19:44

Tgt Ion: 95 Resp: 4721

Ion	Ratio	Lower	Upper
95	100		
130	94.9	94.7	134.7
132	67.1	91.8	131.8#



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356173.D Vial: 9
Acq On : 12 Nov 2019 20:13 Operator: RLD-DGS
Sample : 166497,356173, Inst : VMS4
Misc : 5.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 20:33:47 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	661094	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	519875	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	288915	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	160807	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %		
45) SURR12DCAd4	7.25	102	38544	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	625783	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %		
82) SURR4BrFBenz	13.23	95	236461	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.06	50	2693	N.D.	
4) VinylChlorid	2.21	62	5307	0.0005 mg/kg	81
5) Bromomethane	2.69	94	3961	Below Cal #	67
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	58951	0.0077 mg/kg	97
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	24211	0.0110 mg/kg	99
16) Iodomethane	4.13	142	3351	0.0017 mg/kg#	44
17) Carbon Dislf	4.20	76	2629	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	15465	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.96	96	3192	N.D.	
23) tbutylalcohol	4.79	59	18116	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	2246	N.D.	
26) 11dichlorota	5.49	63	2531	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	3077	N.D.	
31) 22dichloropr	6.20	77	9591	0.0008 mg/kg#	8
32) c12dichlorte	6.24	96	261980	0.0271 mg/kg	90
33) 2Butanone	6.22	72	2331	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.66	42	1405	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356173.D Vial: 9
Acq On : 12 Nov 2019 20:13 Operator: RLD-DGS
Sample : 166497,356173, Inst : VMS4
Misc : 5.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 20:33:47 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	4268	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.31	78	1025	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	23262489	2.6450 mg/kg	90
50)	methylcyclohexane	8.24	83	6548	0.0004 mg/kg#	1
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	4112	N.D.	
61)	Toluene	9.76	92	3417	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.31	83	1260	N.D.	
65)	Tetrachlorte	10.48	166	9532	0.0009 mg/kg	94
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.68	43	1266	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.57	91	1537	N.D.	
73)	1112Tetclota	11.73	131	1080	N.D.	
74)	Ethylbenzene	11.79	91	2998	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	12.50	106	2425	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	9655	0.0008 mg/kg#	41
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.60	91	1713	N.D.	
88)	2chlorotolue	13.60	91	1713	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	2451	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.86	119	1469	N.D.	
96)	14dichlorobe	14.93	146	1341	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.46	91	2424	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356173.D Vial: 9
Acq On : 12 Nov 2019 20:13 Operator: RLD-DGS
Sample : 166497,356173, Inst : VMS4
Misc : 5.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 20:33:47 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	5212	N.D.	
104) 123Trichlben	18.32	180	1315	N.D.	

(#) = qualifier out of range (m) = manual integration

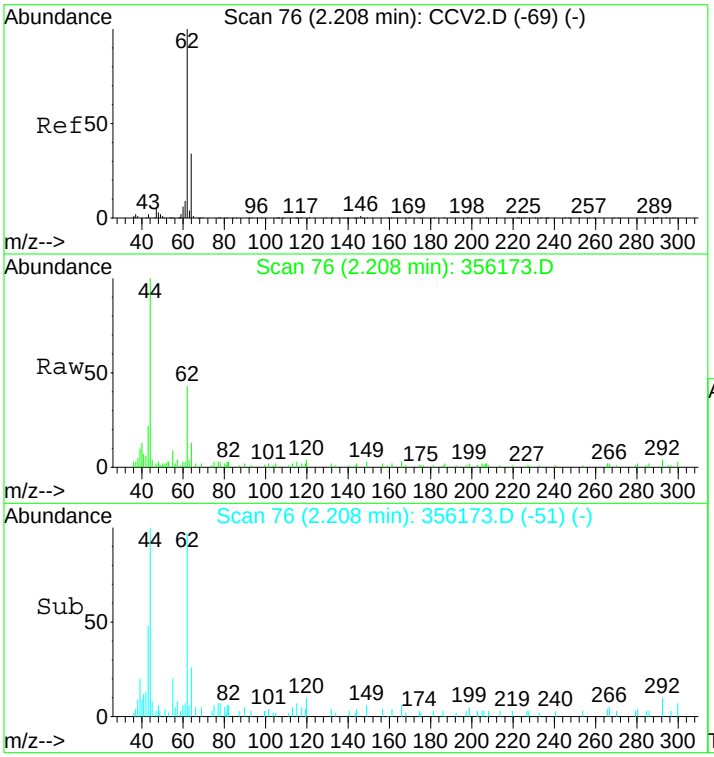
Abundance Quantitation Report TIC: 356173.D

Data File : C:\INSTARCH\DATA\NOV1219B\356173.D Vial: 9
Acq On : 12 Nov 2019 20:13 Operator: RLD-DGS
Sample : 166497,356173, Inst : VMS4
Misc : 5.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 20:33:47 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
Data Acq Meth : LS111219.M

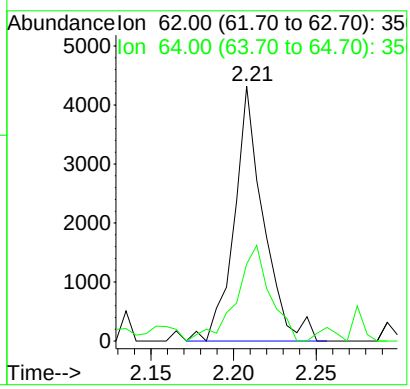


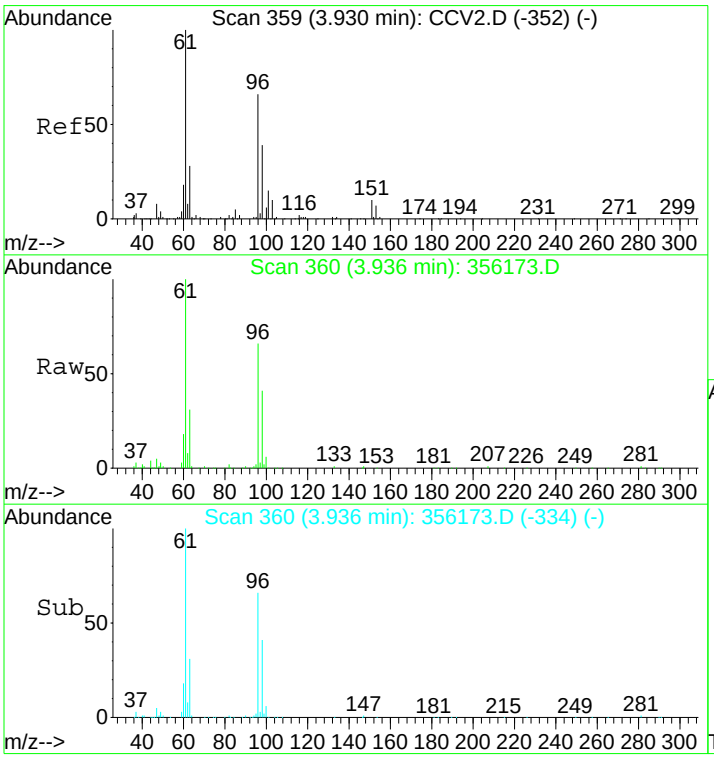


#4
VinylChlorid
Concen: 0.00 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. -0.00 min
Lab File: 356173.D
Acq: 12 Nov 2019 20:13

Tgt Ion: 62 Resp: 5307

Ion	Ratio	Lower	Upper
62	100		
64	43.4	12.9	52.9

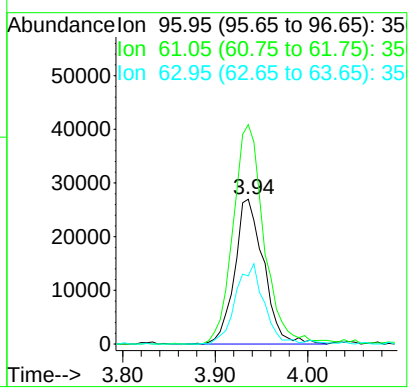


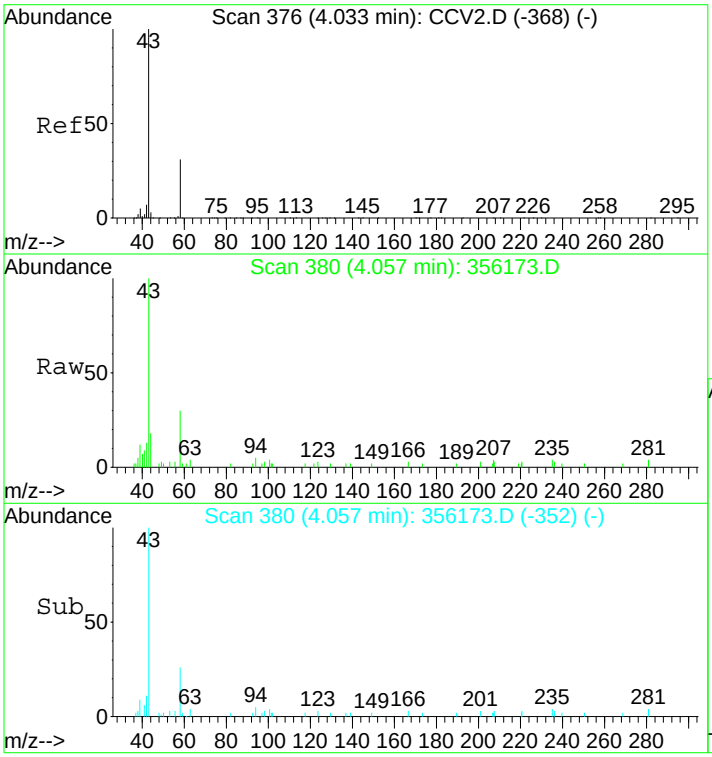


#13
11dichlorthe
Concen: 0.01 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356173.D
Acq: 12 Nov 2019 20:13

Tgt Ion: 96 Resp: 58951

Ion	Ratio	Lower	Upper
96	100		
61	161.2	139.7	179.7
63	55.4	29.4	69.4

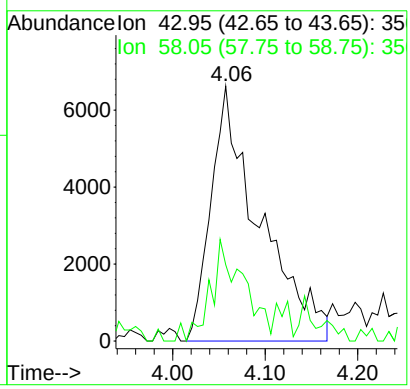


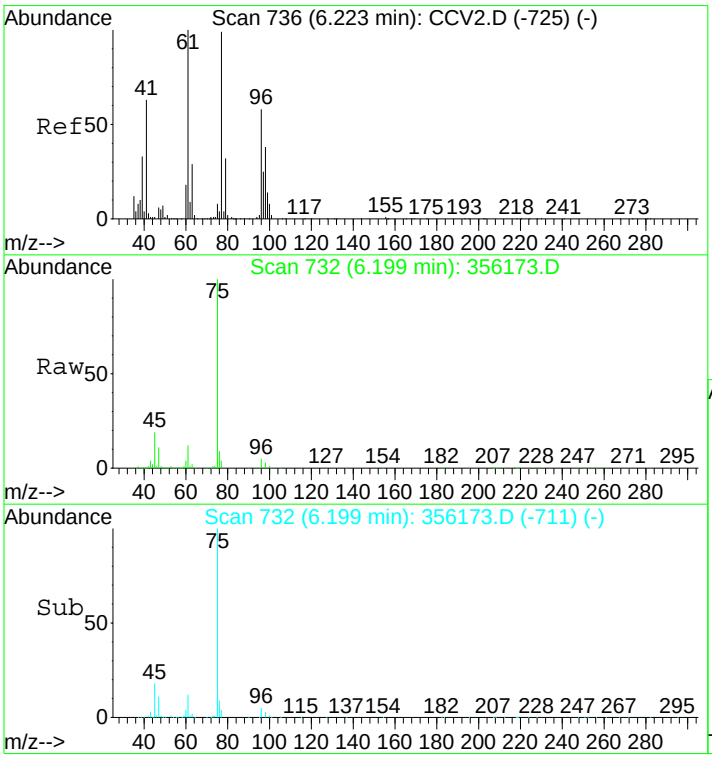


#15
Acetone
Concen: 0.01 mg/kg
RT: 4.06 min Scan# 380
Delta R.T. 0.02 min
Lab File: 356173.D
Acq: 12 Nov 2019 20:13

Tgt Ion: 43 Resp: 24211

Ion	Ratio	Lower	Upper
43	100		
58	27.3	7.7	47.7

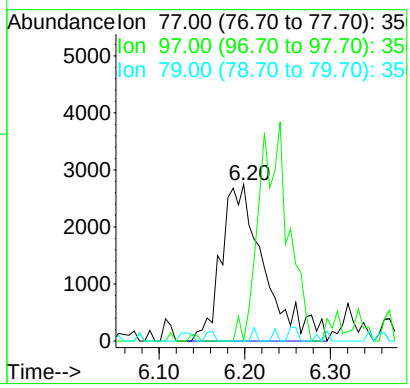




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.20 min Scan# 732
Delta R.T. -0.02 min
Lab File: 356173.D
Acq: 12 Nov 2019 20:13

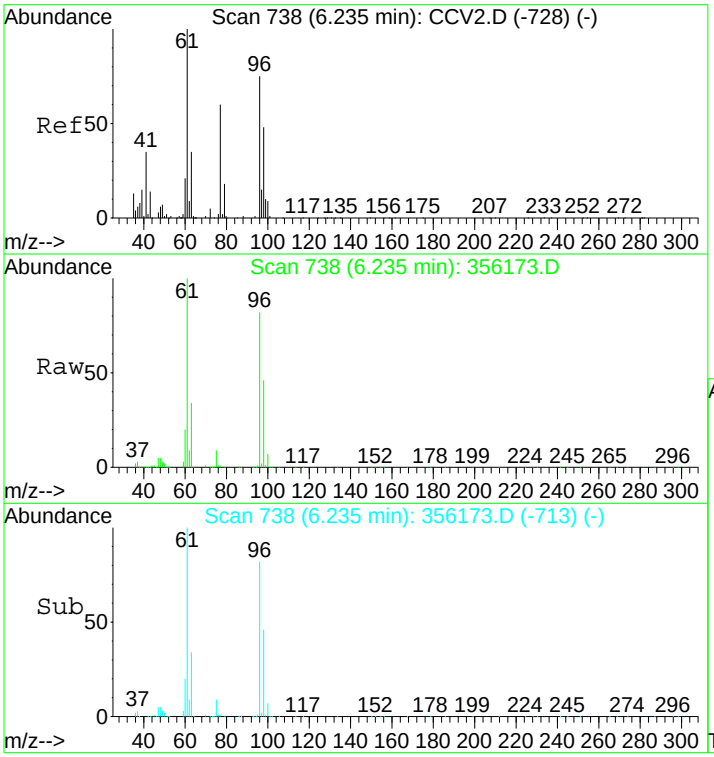
Tgt Ion: 77 Resp: 9591

Ion	Ratio	Lower	Upper
77	100		
97	94.1	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

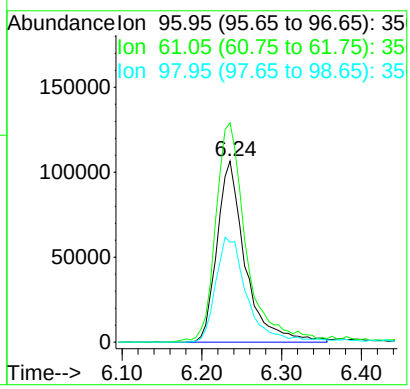
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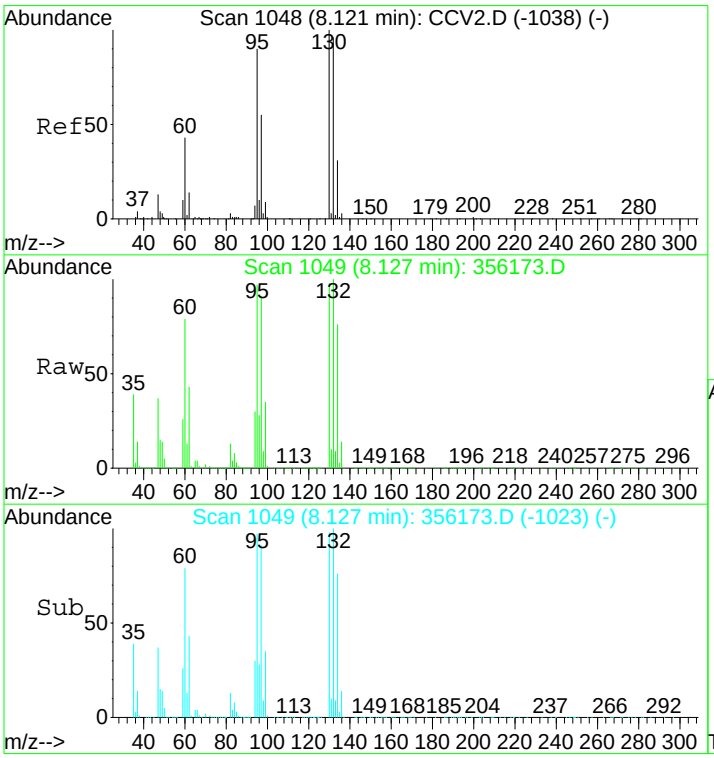


#32
c12dichlorte
Concen: 0.03 mg/kg
RT: 6.24 min Scan# 738
Delta R.T. -0.00 min
Lab File: 356173.D
Acq: 12 Nov 2019 20:13

Tgt Ion: 96 Resp: 261980

Ion	Ratio	Lower	Upper
96	100		
61	130.9	128.4	168.4
98	64.1	44.3	84.3

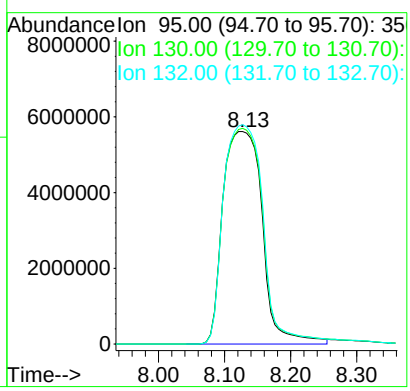


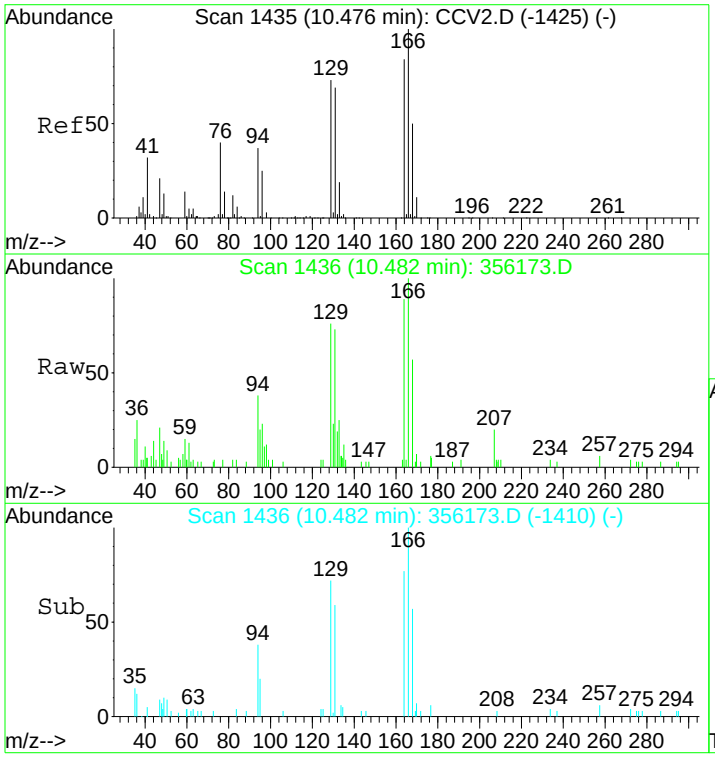


#49
trichloroete
Concen: 2.65 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356173.D
Acq: 12 Nov 2019 20:13

Tgt Ion: 95 Resp:23262489

Ion	Ratio	Lower	Upper
95	100		
130	102.0	94.7	134.7
132	103.7	91.8	131.8

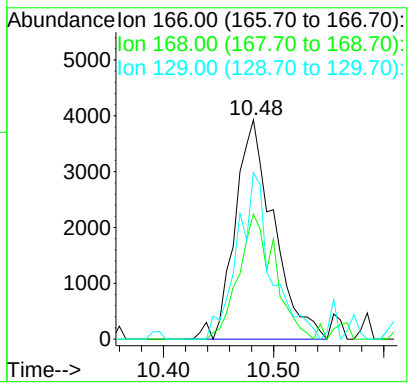


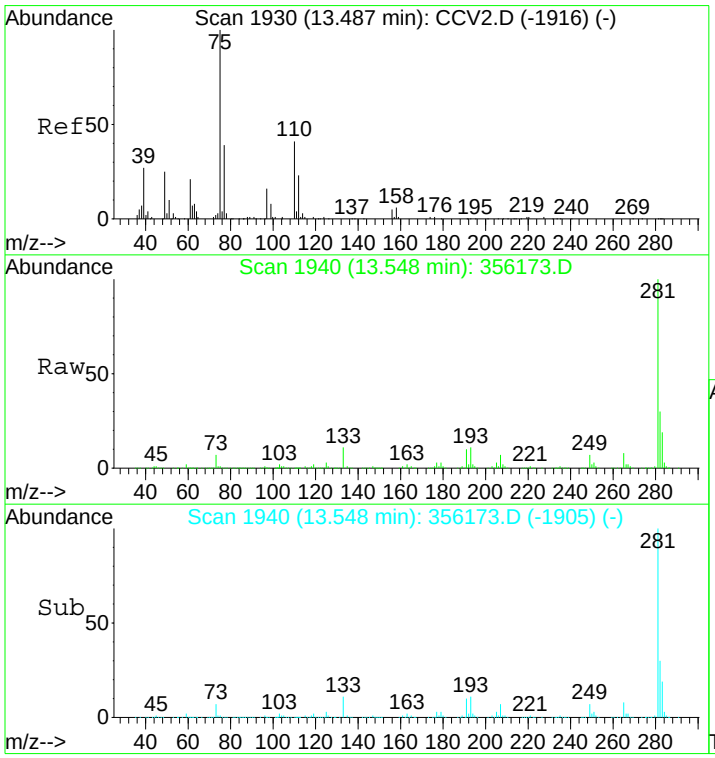


#65
Tetrachlorte
Concen: 0.00 mg/kg
RT: 10.48 min Scan# 1436
Delta R.T. 0.01 min
Lab File: 356173.D
Acq: 12 Nov 2019 20:13

Tgt Ion:166 Resp: 9532

Ion	Ratio	Lower	Upper
166	100		
168	53.3	28.1	68.1
129	67.2	51.5	91.5

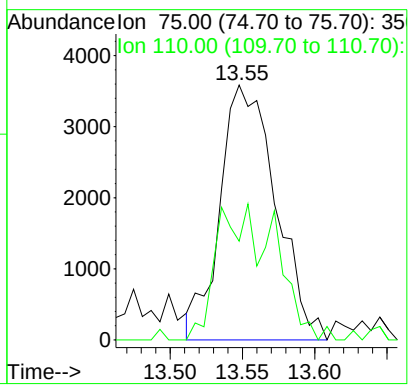




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1940
Delta R.T. 0.06 min
Lab File: 356173.D
Acq: 12 Nov 2019 20:13

Tgt Ion: 75 Resp: 9655

Ion	Ratio	Lower	Upper
75	100		
110	55.6	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356174.D Vial: 10
Acq On : 12 Nov 2019 20:42 Operator: RLD-DGS
Sample : 166497,356174, Inst : VMS4
Misc : 6.30g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:43:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	908656	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	665029	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	278751	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	229698	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	49780	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	871566	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %		
82) SURR4BrFBenz	13.23	95	269771	0.024 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 120 %#		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2138	N.D.	
3) Chloromethan	2.06	50	2119	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	3003	Below Cal	85
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	35850	0.0118 mg/kg	90
16) Iodomethane	4.12	142	1754	0.0011 mg/kg#	44
17) Carbon Dislf	4.20	76	13811	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	7982	Below Cal	96
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.80	59	3863	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.34	57	2016	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.19	77	1985	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356174.D Vial: 10
Acq On : 12 Nov 2019 20:42 Operator: RLD-DGS
Sample : 166497,356174, Inst : VMS4
Misc : 6.30g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:43:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	3773	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	49474	0.0041 mg/kg	96
50)	methylcyclohexane	8.36	83	1491	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	2678	N.D.	
61)	Toluene	9.76	92	4300	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	0.00	83	0	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.65	43	2077	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1098	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.80	91	1751	N.D.	
75)	m p-Xylene	11.95	106	2053	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.56	75	16736	0.0015 mg/kg	62
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.60	91	1065	N.D.	
88)	2chlorotolue	13.60	91	1065	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.40	105	3034	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.86	119	1471	N.D.	
96)	14dichlorobe	14.93	146	1113	N.D.	
97)	12dichlorobe	15.45	146	1170	N.D.	
98)	nButylbenzen	15.46	91	1391	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356174.D Vial: 10
Acq On : 12 Nov 2019 20:42 Operator: RLD-DGS
Sample : 166497,356174, Inst : VMS4
Misc : 6.30g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:43:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	5259	N.D.	
104) 123Trichlben	18.33	180	1176	N.D.	

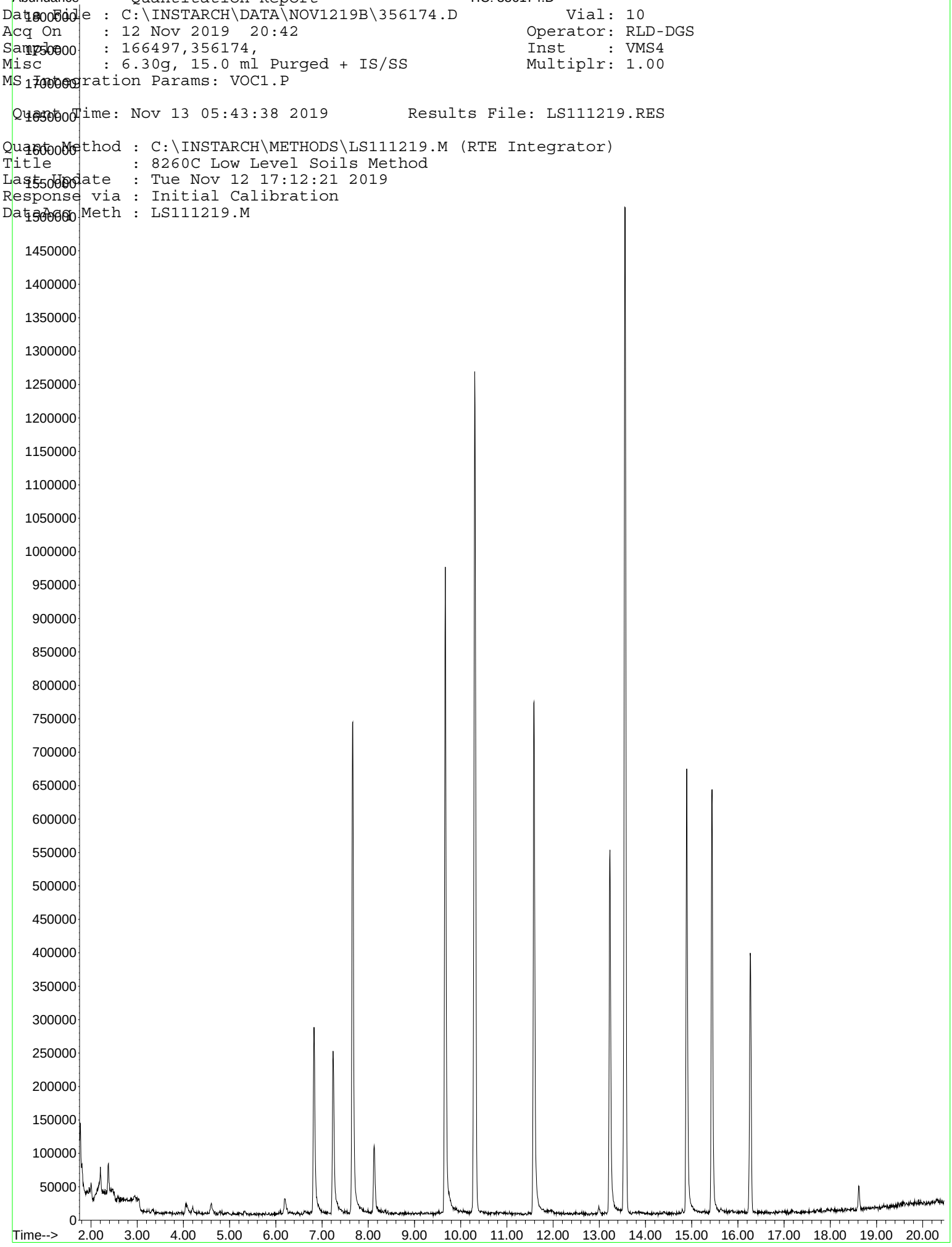
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356174.D

Data File : C:\INSTARCH\DATA\NOV1219B\356174.D Vial: 10
Acq On : 12 Nov 2019 20:42 Operator: RLD-DGS
Sample : 166497,356174, Inst : VMS4
Misc : 6.30g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:43:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356175.D Vial: 11
Acq On : 12 Nov 2019 21:11 Operator: RLD-DGS
Sample : 166497,356175, Inst : VMS4
Misc : 5.74g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 21:31:59 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	953173	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	692452	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	261506	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	253638	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 110 %		
45) SURR12DCAd4	7.25	102	55257	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	952761	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	267111	0.025 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 125 %#		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2111	N.D.	
3) Chloromethan	2.06	50	1810	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.68	94	1989	Below Cal	97
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	34547	0.0109 mg/kg	97
16) Iodomethane	4.12	142	1508	0.0010 mg/kg#	44
17) Carbon Dislf	4.20	76	16777	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	22013	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.80	59	19005	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.34	57	5441	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	4326	N.D.	
31) 22dichloropr	6.19	77	9728	0.0006 mg/kg#	45
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.63	42	1774	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356175.D Vial: 11
Acq On : 12 Nov 2019 21:11 Operator: RLD-DGS
Sample : 166497,356175, Inst : VMS4
Misc : 5.74g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 21:31:59 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	6.92	56	1064	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.31	78	3434	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	22451	0.0018 mg/kg	92
50)	methylcyclohexane	8.36	83	1249	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	8.36	75	1027	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.11	43	1530	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.51	43	1398	N.D.	
61)	Toluene	9.76	92	5279	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	0.00	83	0	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.68	43	1062	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1540	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.80	91	2026	N.D.	
75)	m p-Xylene	11.95	106	2271	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	14664	0.0014 mg/kg#	50
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.61	91	1165	N.D.	
88)	2chlorotolue	13.61	91	1165	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	13.73	105	2043	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	3390	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.87	119	1571	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	0.00	91	0	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356175.D Vial: 11
Acq On : 12 Nov 2019 21:11 Operator: RLD-DGS
Sample : 166497,356175, Inst : VMS4
Misc : 5.74g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 21:31:59 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	4848	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

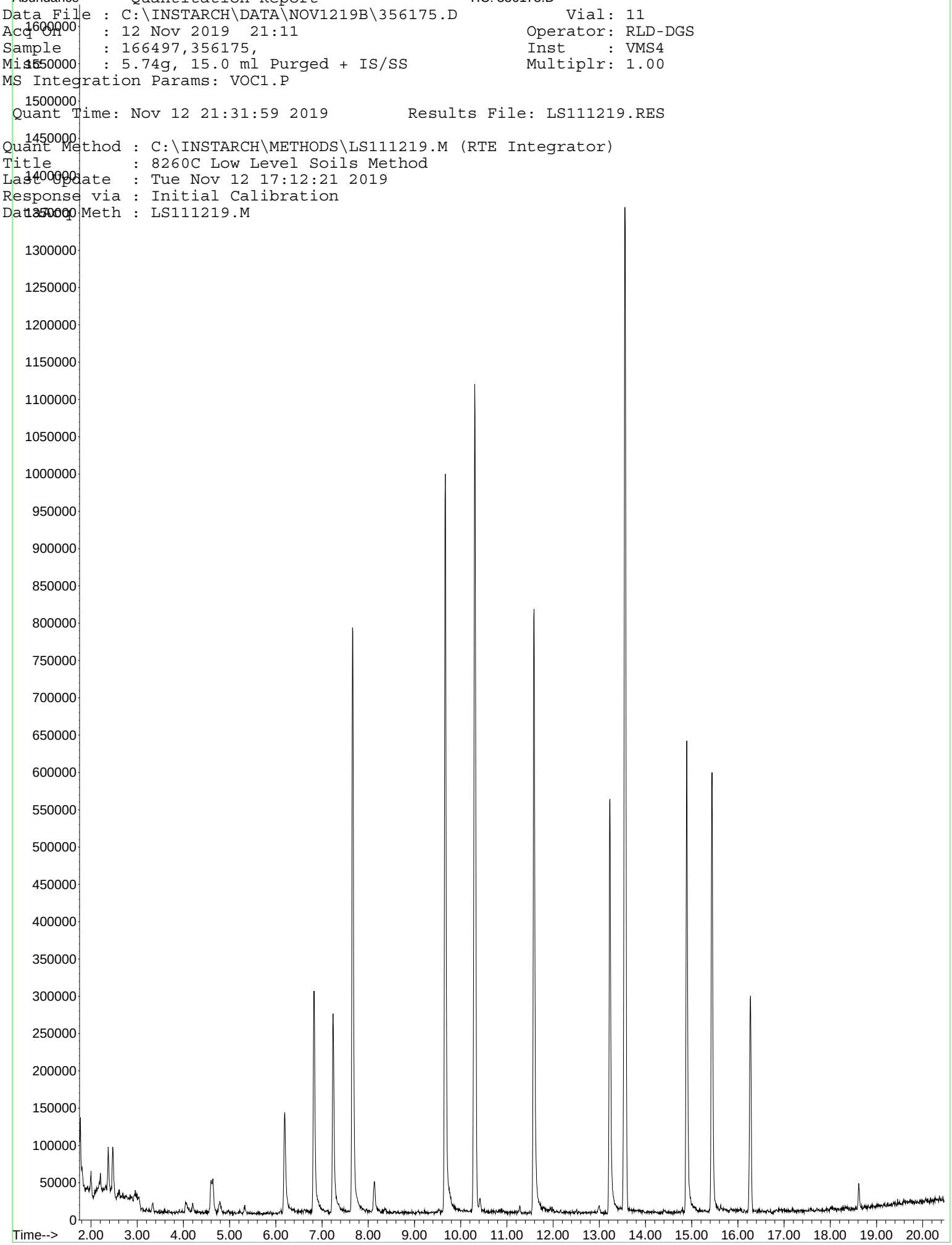
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356175.D

Data File : C:\INSTARCH\DATA\NOV1219B\356175.D Vial: 11
Acq On : 12 Nov 2019 21:11 Operator: RLD-DGS
Sample : 166497,356175, Inst : VMS4
Misc : 5.74g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 21:31:59 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356176.D Vial: 12
Acq On : 12 Nov 2019 21:40 Operator: RLD-DGS
Sample : 166497,356176, Inst : VMS4
Misc : 5.71g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:01:02 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	1055222	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	813966	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	438787	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	263137	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %		
45) SURR12DCAd4	7.24	102	55892	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %		
60) SURRd8Tolule	9.67	98	1014949	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %		
82) SURR4BrFBenz	13.23	95	352732	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2085	N.D.	
3) Chloromethan	2.07	50	3038	N.D.	
4) VinylChlorid	2.21	62	14703	0.0009 mg/kg	97
5) Bromomethane	2.69	94	2280	Below Cal	100
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	55314	0.0045 mg/kg	96
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	18171	N.D.	
16) Iodomethane	4.11	142	1067	0.0009 mg/kg#	44
17) Carbon Dislf	4.20	76	3739	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	29441	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.96	96	6187	0.0004 mg/kg	94
23) tbutylalcohol	4.80	59	23429	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.34	57	8403	N.D.	
26) 11dichlorota	5.49	63	6017	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.19	77	13775	0.0007 mg/kg#	1
32) c12dichlorte	6.23	96	1040088	0.0674 mg/kg	89
33) 2Butanone	6.23	72	9018	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.61	42	2252	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356176.D Vial: 12
Acq On : 12 Nov 2019 21:40 Operator: RLD-DGS
Sample : 166497,356176, Inst : VMS4
Misc : 5.71g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:01:02 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	3713	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	6.91	56	1217	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	3849	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	25283903	1.8011 mg/kg	90
50)	methylcyclohexane	8.25	83	8118	N.D.	
51)	12dicloropra	8.27	63	1336	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.07	43	1166	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	5554	N.D.	
61)	Toluene	9.77	92	5077	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.27	83	2459	N.D.	
65)	Tetrachlorte	10.49	166	6127	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.60	43	1130	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.59	91	1574	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.79	91	1596	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	13927	0.0008 mg/kg#	57
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	13.86	105	1027	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	2375	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	14.94	146	1002	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	0.00	91	0	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356176.D Vial: 12
Acq On : 12 Nov 2019 21:40 Operator: RLD-DGS
Sample : 166497,356176, Inst : VMS4
Misc : 5.71g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:01:02 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	4471	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

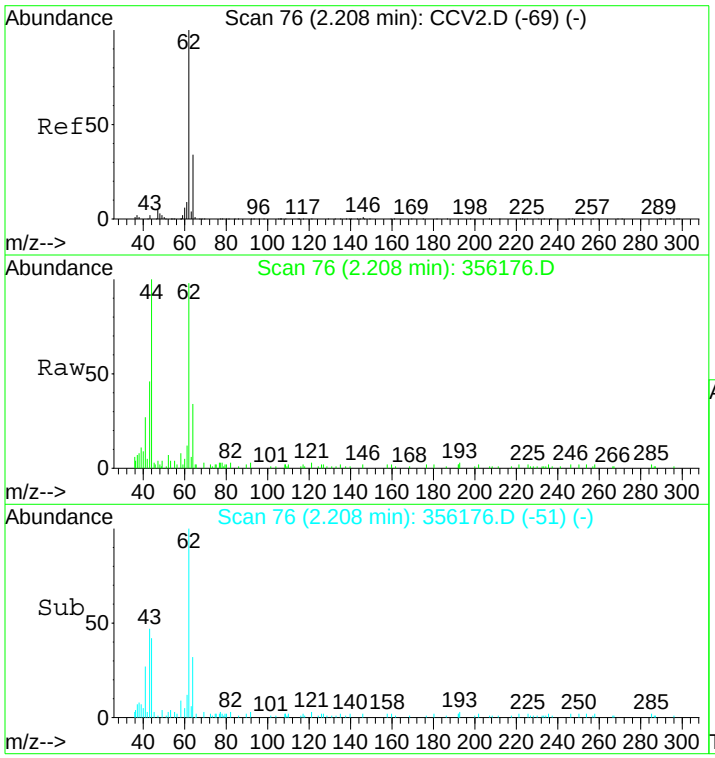
Abundance Quantitation Report TIC: 356176.D

Data File : C:\INSTARCH\DATA\NOV1219B\356176.D Vial: 12
Acq On : 12 Nov 2019 21:40 Operator: RLD-DGS
Sample : 166497,356176, Inst : VMS4
Misc : 5.71g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:01:02 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

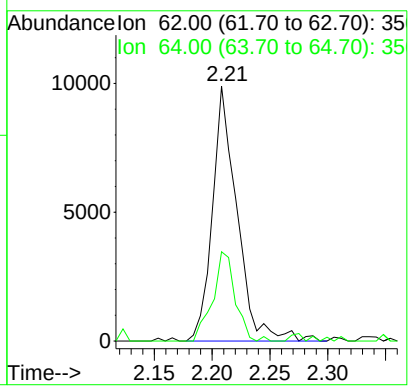


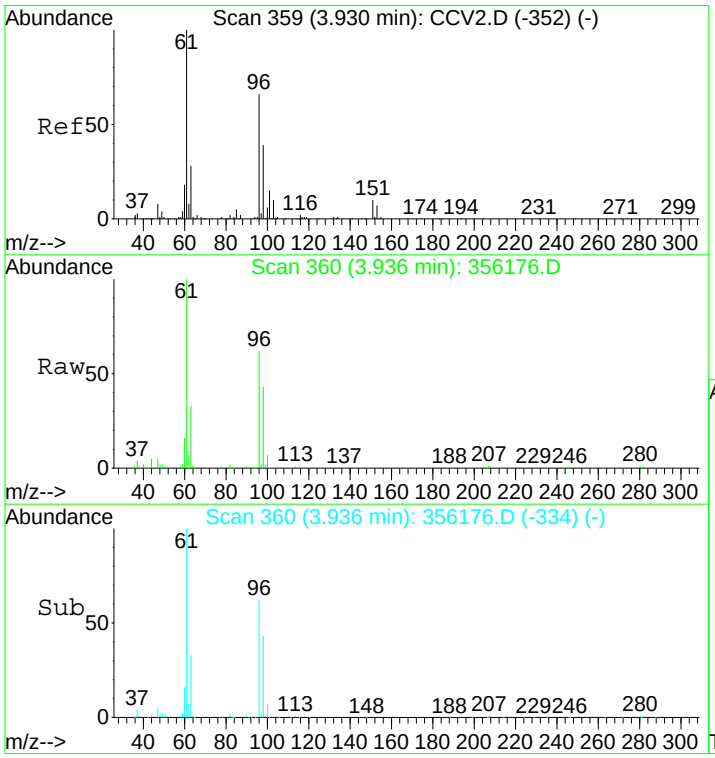


#4
VinylChlorid
Concen: 0.00 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. 0.00 min
Lab File: 356176.D
Acq: 12 Nov 2019 21:40

Tgt Ion: 62 Resp: 14703

Ion	Ratio	Lower	Upper
62	100		
64	31.5	12.9	52.9

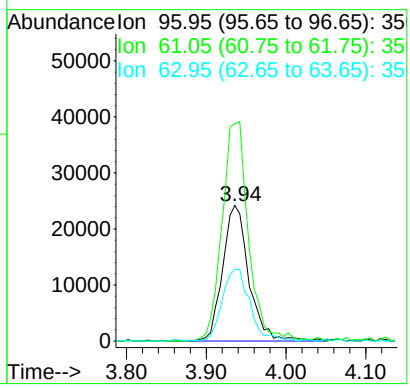


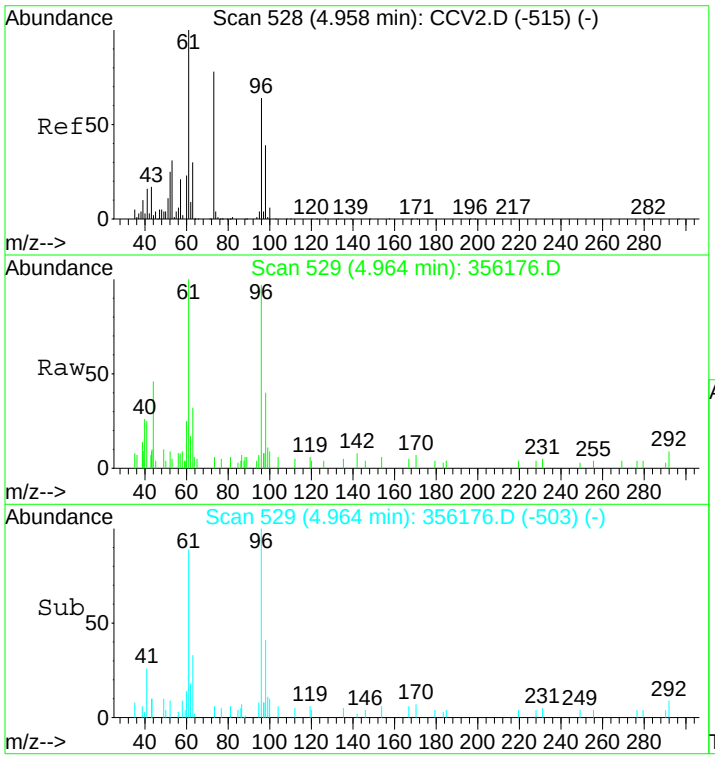


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356176.D
Acq: 12 Nov 2019 21:40

Tgt Ion: 96 Resp: 55314

Ion	Ratio	Lower	Upper
96	100		
61	163.5	139.7	179.7
63	55.7	29.4	69.4

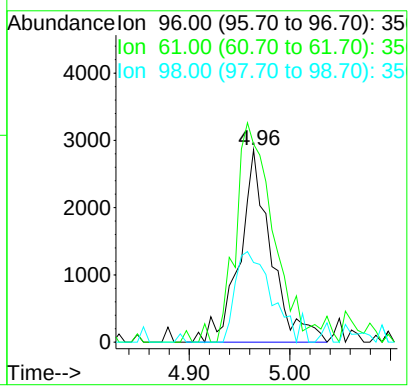


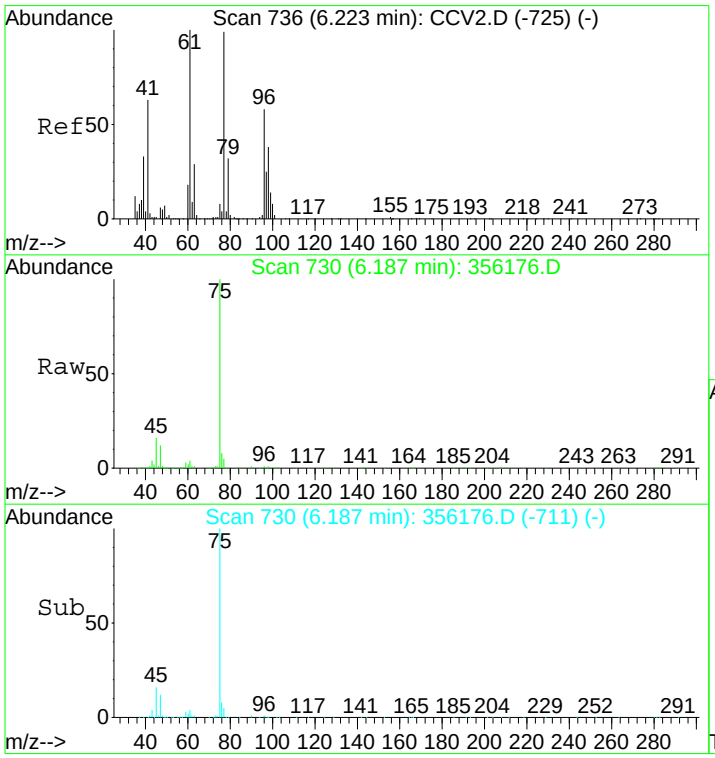


#22
t12dichlorte
Concen: 0.00 mg/kg
RT: 4.96 min Scan# 529
Delta R.T. 0.01 min
Lab File: 356176.D
Acq: 12 Nov 2019 21:40

Tgt Ion: 96 Resp: 6187

Ion	Ratio	Lower	Upper
96	100		
61	138.8	123.7	163.7
98	55.9	44.9	84.9

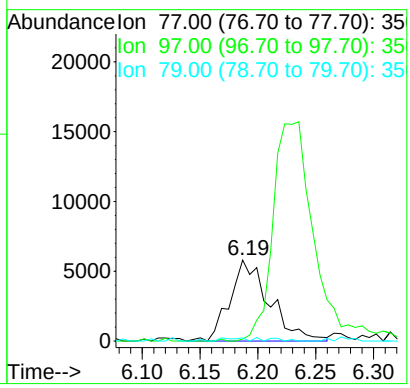




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.19 min Scan# 730
Delta R.T. -0.04 min
Lab File: 356176.D
Acq: 12 Nov 2019 21:40

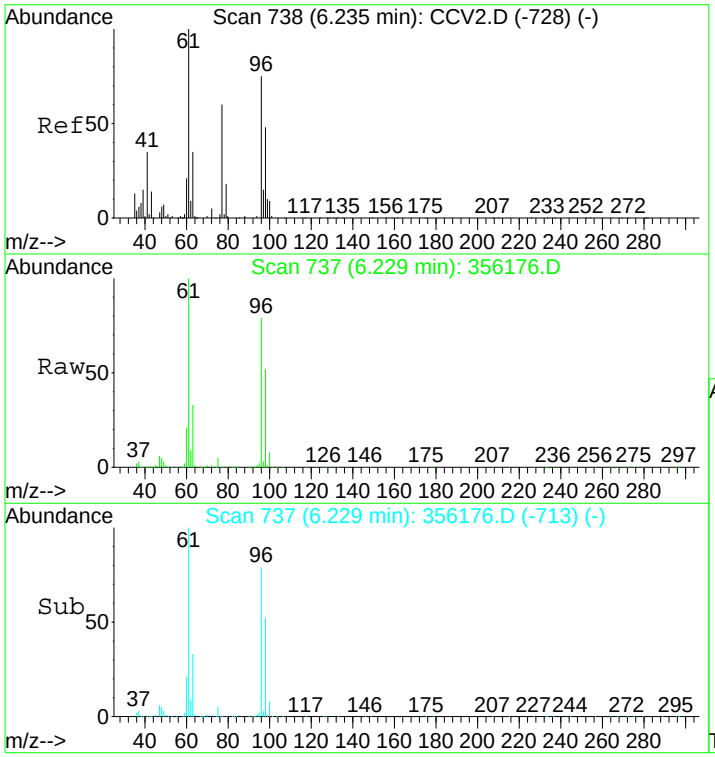
Tgt Ion: 77 Resp: 13775

Ion	Ratio	Lower	Upper
77	100		
97	283.7	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

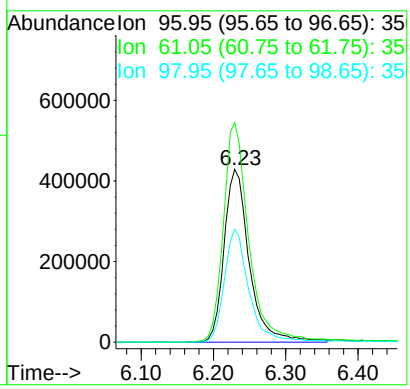
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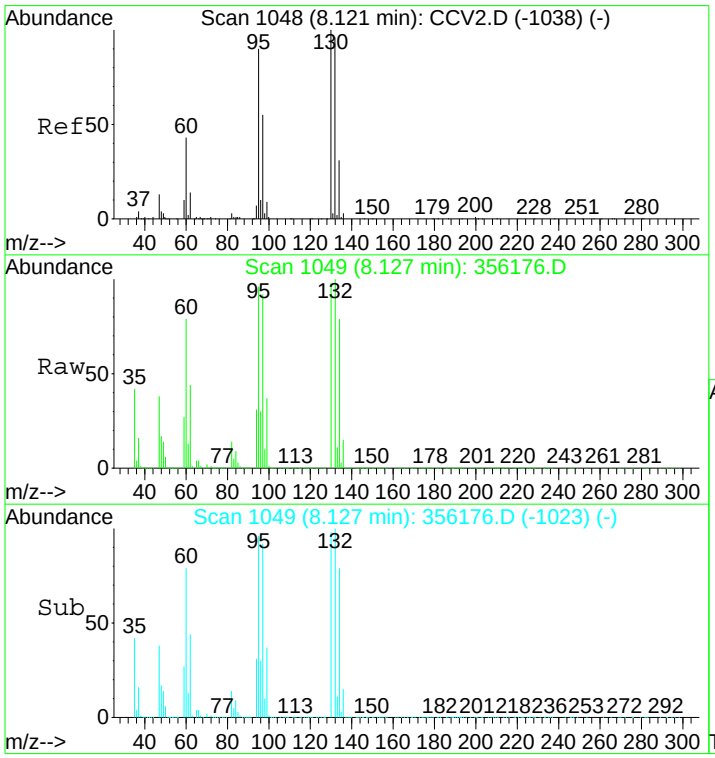


#32
c12dichlorte
Concen: 0.07 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356176.D
Acq: 12 Nov 2019 21:40

Tgt Ion: 96 Resp: 1040088

Ion	Ratio	Lower	Upper
96	100		
61	128.9	128.4	168.4
98	63.8	44.3	84.3

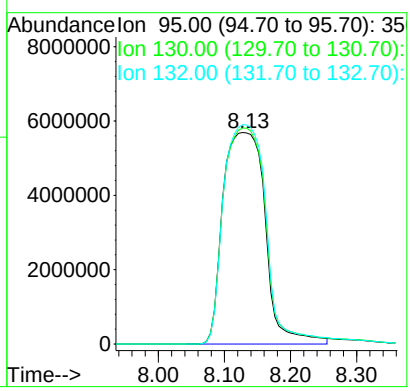


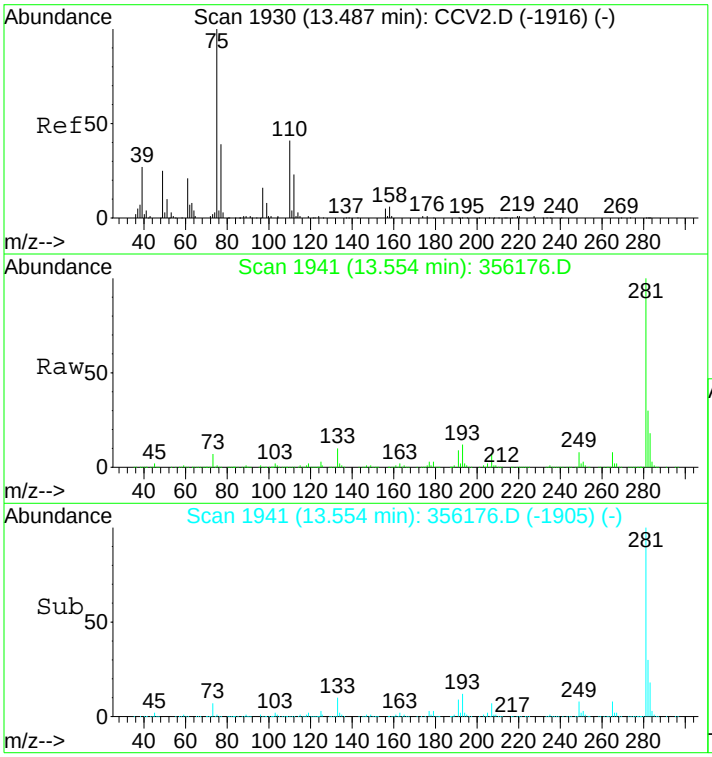


#49
trichloroete
Concen: 1.80 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356176.D
Acq: 12 Nov 2019 21:40

Tgt Ion: 95 Resp:25283903

Ion	Ratio	Lower	Upper
95	100		
130	102.1	94.7	134.7
132	103.8	91.8	131.8

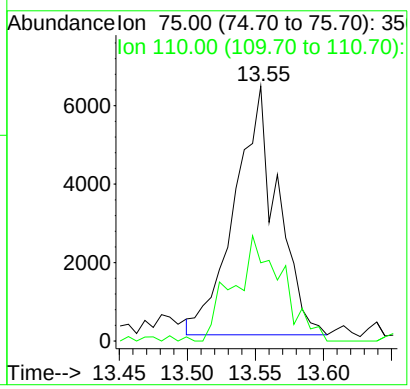




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356176.D
Acq: 12 Nov 2019 21:40

Tgt Ion: 75 Resp: 13927

Ion	Ratio	Lower	Upper
75	100		
110	47.4	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356177.D Vial: 13
Acq On : 12 Nov 2019 22:09 Operator: RLD-DGS
Sample : 166497,356177, Inst : VMS4
Misc : 5.91g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:30:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	920973	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	702643	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	336530	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	242642	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	54018	0.023 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %		
60) SURRd8Tolule	9.67	98	914903	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	307614	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 110 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.06	50	2804	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	3705	Below Cal	90
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	19711	N.D.	
16) Iodomethane	4.14	142	1065	0.0010 mg/kg#	44
17) Carbon Dislf	4.21	76	2594	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	17239	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	8045	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.32	57	6388	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.19	77	4011	N.D.	
32) c12dichlorte	6.25	96	3673	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356177.D Vial: 13
Acq On : 12 Nov 2019 22:09 Operator: RLD-DGS
Sample : 166497,356177, Inst : VMS4
Misc : 5.91g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:30:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.31	78	2732	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.13	95	63342	0.0052	mg/kg	97
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	9.11	43	1176	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.53	43	1417	N.D.		
61)	Toluene	9.76	92	3061	N.D.		
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	0.00	83	0	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	0.00	43	0	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1Clhexane	11.60	91	1720	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	0.00	91	0	N.D.		
75)	m p-Xylene	0.00	106	0	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	13.19	55	1082	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.55	75	15463	0.0011	mg/kg#	44
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	0.00	91	0	N.D.		
88)	2chlorotolue	0.00	91	0	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	13.86	105	1268	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.39	105	2153	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	14.85	119	1066	N.D.		
96)	14dichlorobe	14.94	146	1510	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.46	91	1306	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356177.D Vial: 13
Acq On : 12 Nov 2019 22:09 Operator: RLD-DGS
Sample : 166497,356177, Inst : VMS4
Misc : 5.91g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:30:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	3218	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

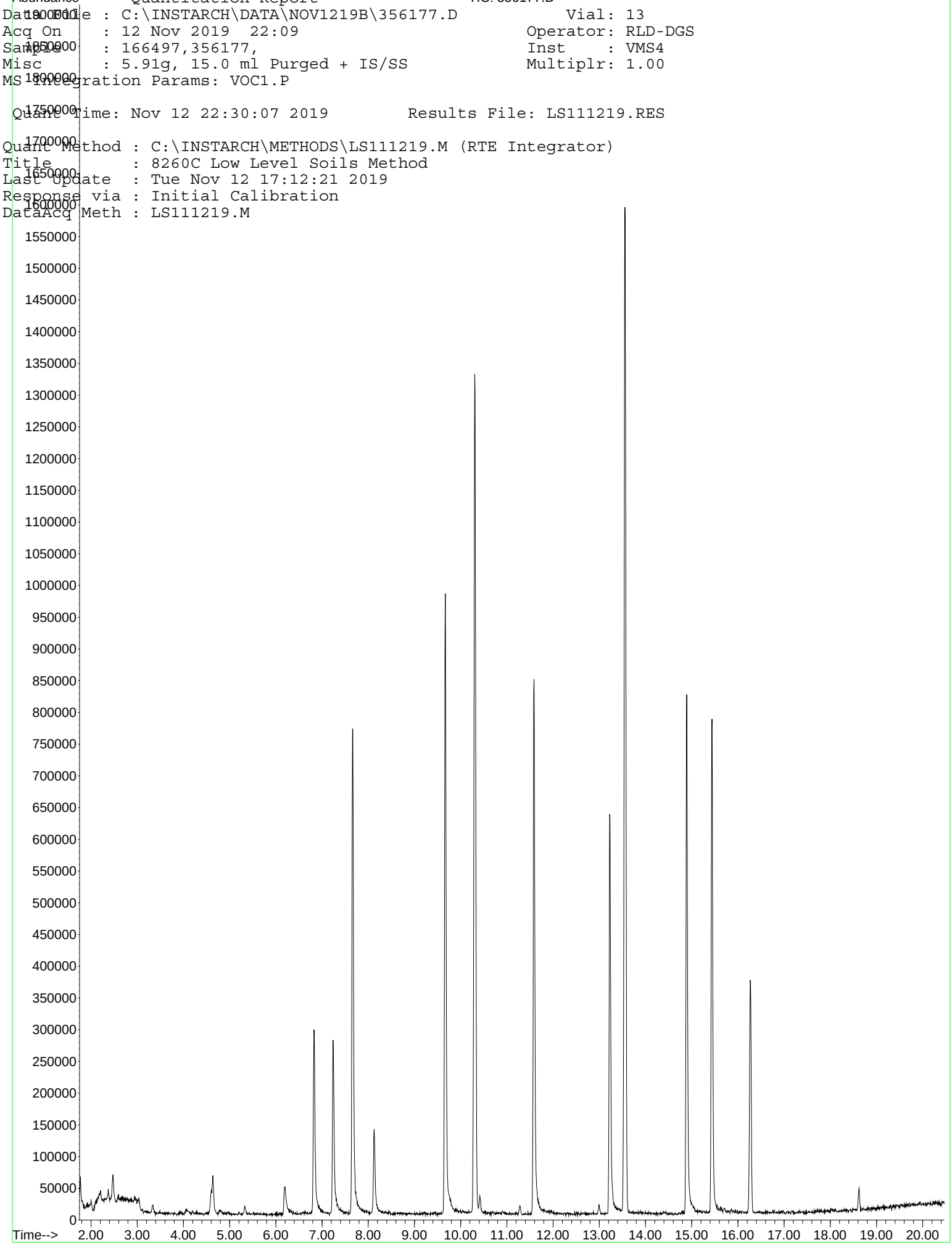
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356177.D

Data File : C:\INSTARCH\DATA\NOV1219B\356177.D Vial: 13
Acq On : 12 Nov 2019 22:09 Operator: RLD-DGS
Sample : 166497,356177, Inst : VMS4
Misc : 5.91g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:30:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356178.D Vial: 14
Acq On : 12 Nov 2019 22:38 Operator: RLD-DGS
Sample : 166497,356178, Inst : VMS4
Misc : 5.85g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:59:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1032430	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	705684	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	245330	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.82	113	268260	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.25	102	58540	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.67	98	981734	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %			
82) SURR4BrFBenz	13.23	95	255973	0.025	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 125 %#			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	2221	N.D.		
3) Chloromethan	2.06	50	2618	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.68	94	2418	Below Cal #		71
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.05	43	35092	0.0102	mg/kg	98
16) Iodomethane	4.13	142	1206	0.0010	mg/kg#	44
17) Carbon Dislf	4.20	76	3819	N.D.		
18) allylchloride	4.48	41	1621	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	21455	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	15673	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.33	57	4507	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	6.19	59	3136	N.D.		
31) 22dichloropr	6.19	77	7391	0.0004	mg/kg#	45
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.62	42	2296	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356178.D Vial: 14
Acq On : 12 Nov 2019 22:38 Operator: RLD-DGS
Sample : 166497,356178, Inst : VMS4
Misc : 5.85g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:59:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	6.93	56	1041	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.32	78	5249	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.13	95	16876	0.0012	mg/kg	93
50)	methylcyclohexane	8.38	83	1138	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.52	43	4539	N.D.		
61)	Toluene	9.76	92	20267	0.0006	mg/kg	91
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	10.31	83	1519	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	0.00	43	0	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1Clhexane	11.59	91	1423	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.79	91	1204	N.D.		
75)	m p-Xylene	0.00	106	0	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.47	75	1436	N.D.		
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	0.00	91	0	N.D.		
88)	2chlorotolue	0.00	91	0	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	0.00	105	0	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.42	105	1477	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	0.00	119	0	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.47	91	1565	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356178.D Vial: 14
Acq On : 12 Nov 2019 22:38 Operator: RLD-DGS
Sample : 166497,356178, Inst : VMS4
Misc : 5.85g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:59:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.01	128	3823	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

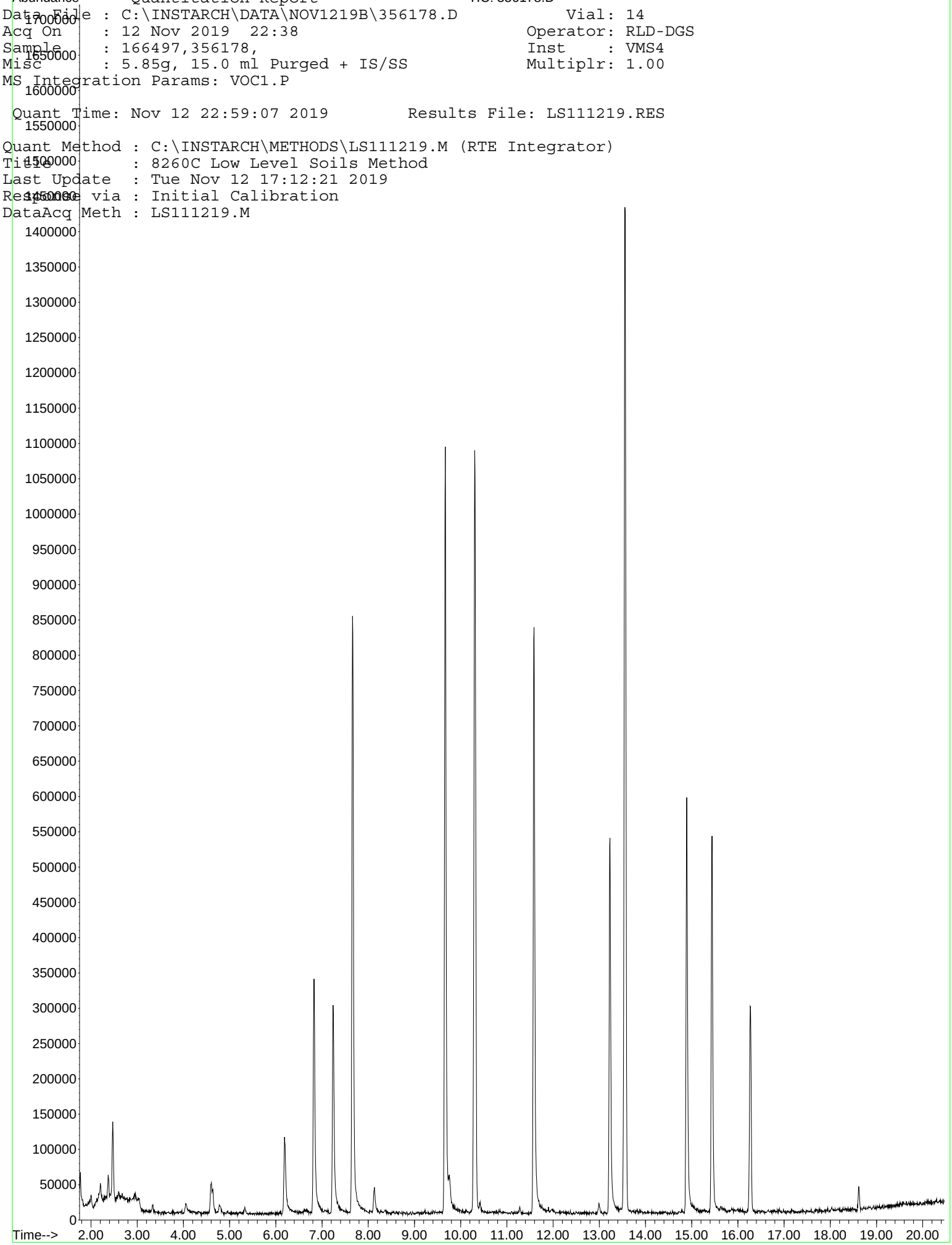
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356178.D

Data File : C:\INSTARCH\DATA\NOV1219B\356178.D Vial: 14
Acq On : 12 Nov 2019 22:38 Operator: RLD-DGS
Sample : 166497,356178, Inst : VMS4
Misc : 5.85g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 22:59:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356179.D Vial: 15
Acq On : 12 Nov 2019 23:07 Operator: RLD-DGS
Sample : 166497,356179, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 23:28:04 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	989654	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.58	117	767165	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	415313	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	247250	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	52209	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.67	98	963658	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %			
82) SURR4BrFBenz	13.23	95	338901	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.06	50	2816	N.D.		
4) VinylChlorid	2.21	62	3243	N.D.		
5) Bromomethane	2.68	94	2600	Below Cal		93
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	3.94	96	5984	0.0005	mg/kg	93
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.05	43	41225	0.0125	mg/kg	96
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.20	76	4368	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	19794	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	4.97	96	2391	N.D.		
23) tbutylalcohol	4.79	59	18841	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.32	57	3688	N.D.		
26) 11dichlorota	5.49	63	2141	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	6.20	77	12388	0.0007	mg/kg#	1
32) c12dichlorte	6.23	96	526131	0.0363	mg/kg#	88
33) 2Butanone	6.22	72	4393	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356179.D Vial: 15
Acq On : 12 Nov 2019 23:07 Operator: RLD-DGS
Sample : 166497,356179, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 23:28:04 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.64	83	1079	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.31	78	1772	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	14061669	1.0680 mg/kg	91
50)	methylcyclohexane	8.27	83	1275	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	3803	N.D.	
61)	Toluene	9.75	92	10748	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.29	83	2114	N.D.	
65)	Tetrachlorte	10.49	166	1475	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	2042	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.81	91	1001	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.23	55	1030	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.43	75	1469	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.42	105	2146	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.86	119	1150	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.46	91	2359	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356179.D Vial: 15
Acq On : 12 Nov 2019 23:07 Operator: RLD-DGS
Sample : 166497,356179, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 23:28:04 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	2881	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

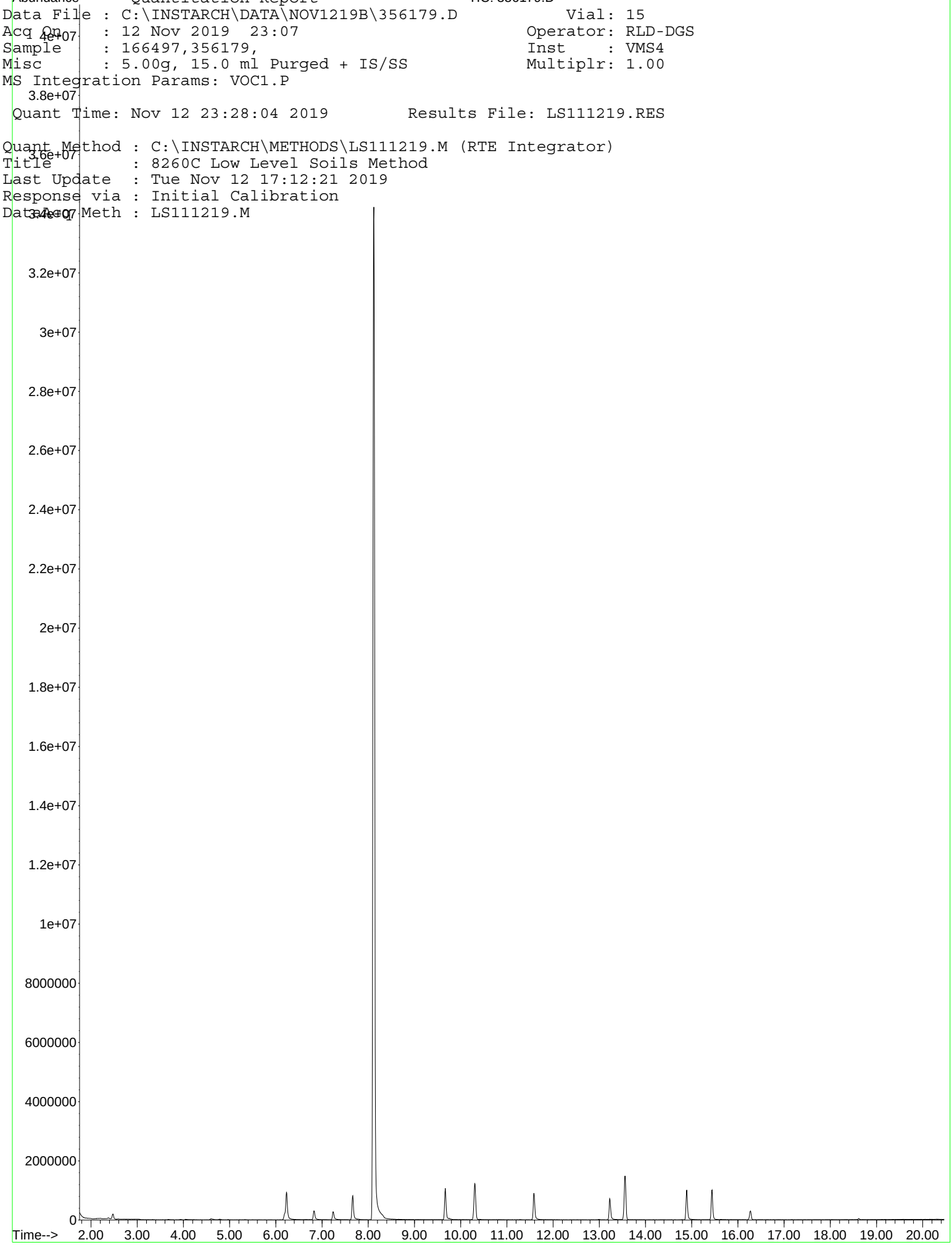
(#) = qualifier out of range (m) = manual integration

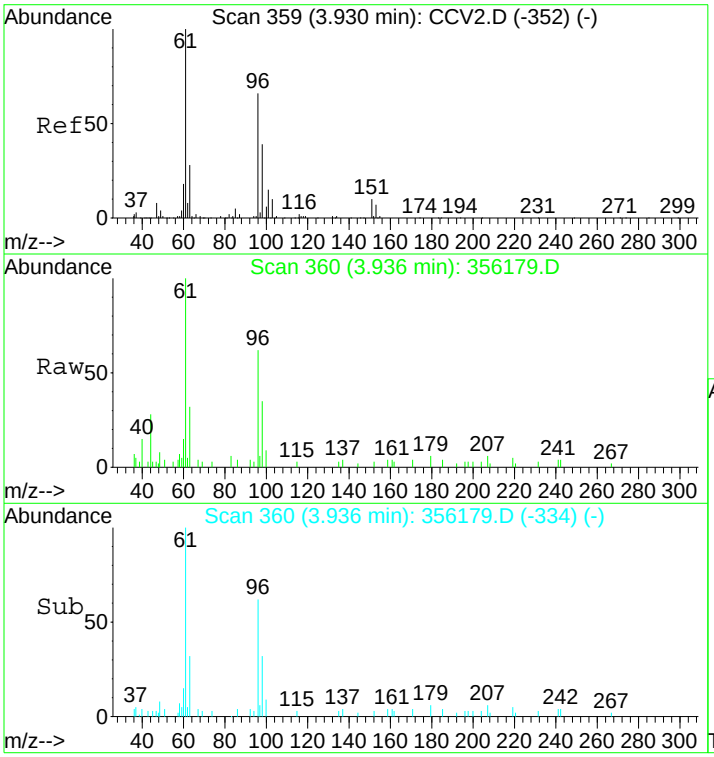
Abundance Quantitation Report TIC: 356179.D

Data File : C:\INSTARCH\DATA\NOV1219B\356179.D Vial: 15
Acq On : 12 Nov 2019 23:07 Operator: RLD-DGS
Sample : 166497,356179, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 23:28:04 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
Data Acq Meth : LS111219.M

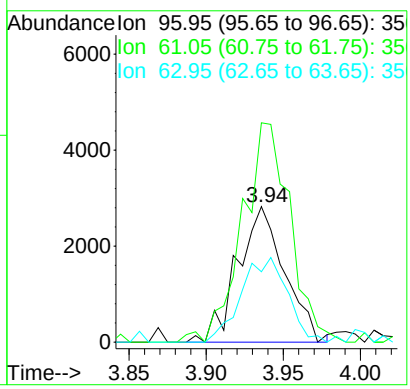


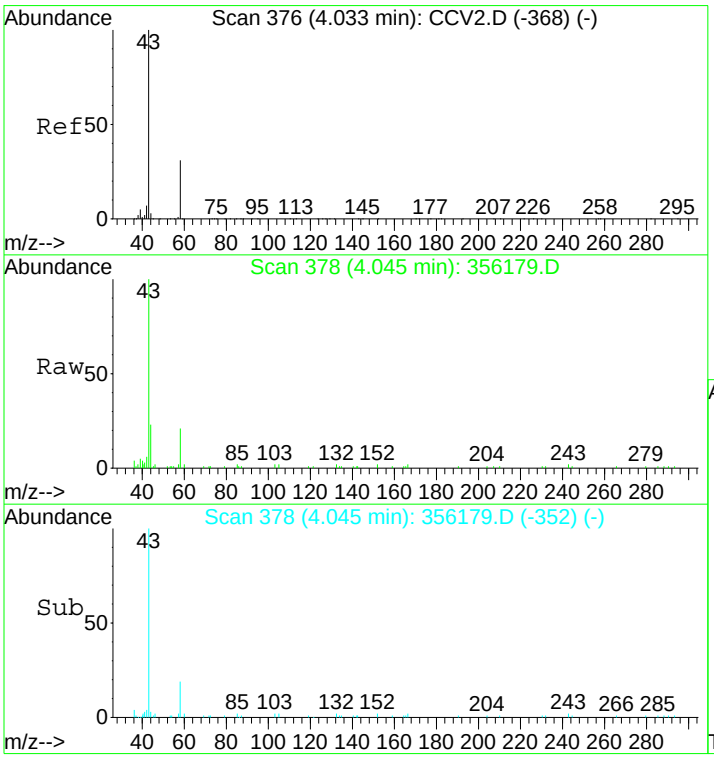


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356179.D
Acq: 12 Nov 2019 23:07

Tgt Ion: 96 Resp: 5984

Ion	Ratio	Lower	Upper
96	100		
61	164.7	139.7	179.7
63	61.5	29.4	69.4

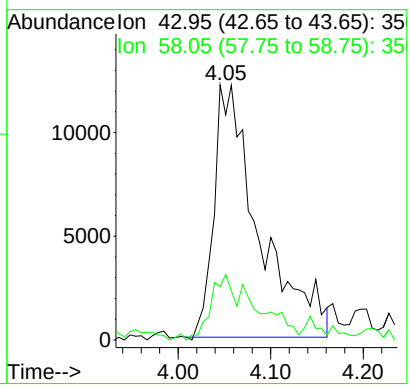


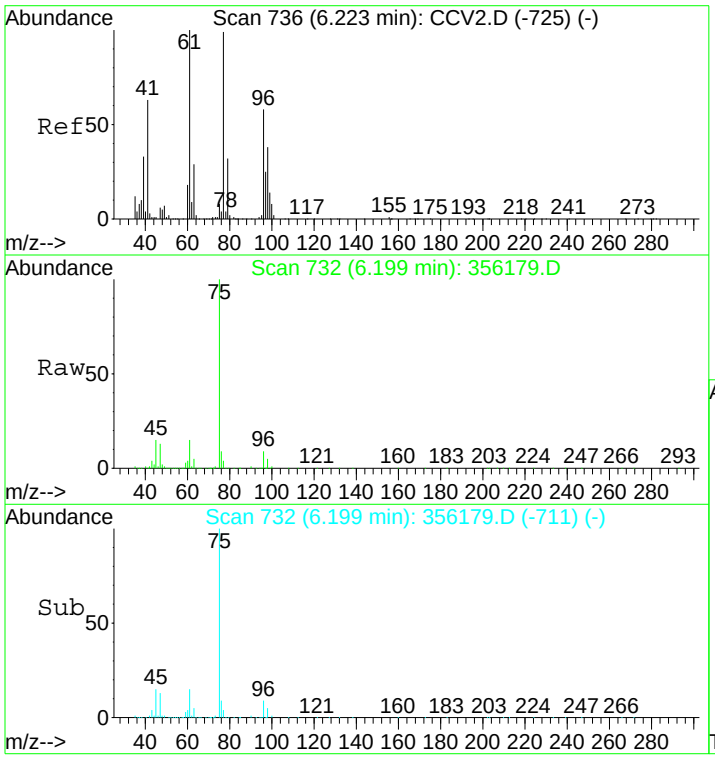


#15
Acetone
Concen: 0.01 mg/kg
RT: 4.05 min Scan# 378
Delta R.T. 0.01 min
Lab File: 356179.D
Acq: 12 Nov 2019 23:07

Tgt Ion: 43 Resp: 41225

Ion	Ratio	Lower	Upper
43	100		
58	25.9	7.7	47.7

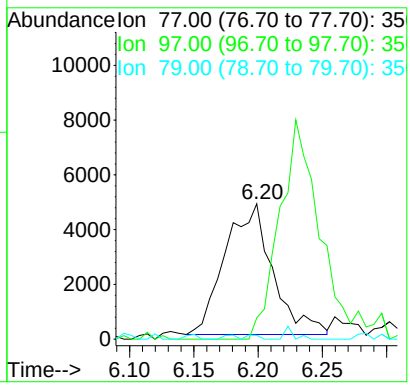




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.20 min Scan# 732
Delta R.T. -0.02 min
Lab File: 356179.D
Acq: 12 Nov 2019 23:07

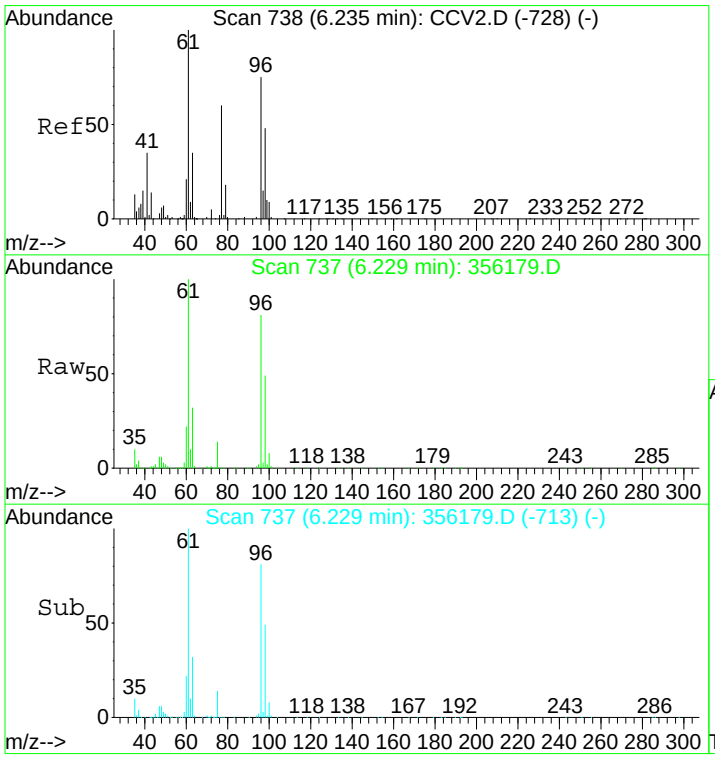
Tgt Ion: 77 Resp: 12388

Ion	Ratio	Lower	Upper
77	100		
97	144.7	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

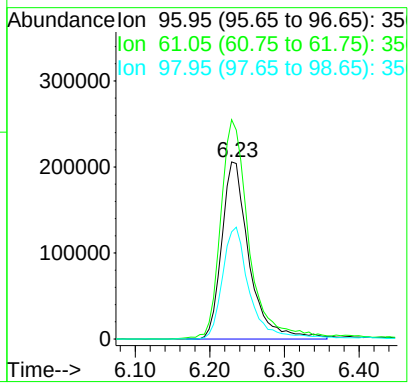
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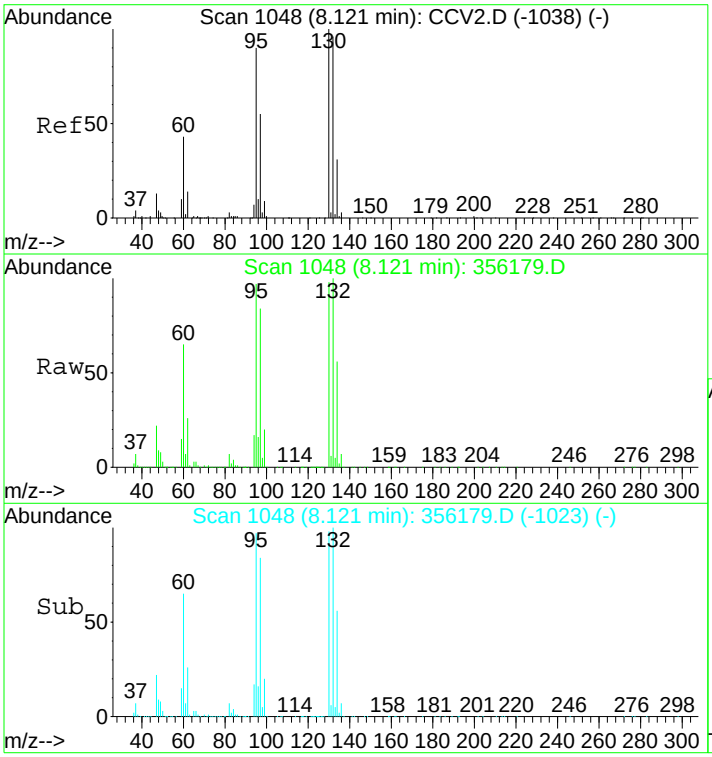


#32
c12dichlorte
Concen: 0.04 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356179.D
Acq: 12 Nov 2019 23:07

Tgt Ion: 96 Resp: 526131

Ion	Ratio	Lower	Upper
96	100		
61	127.8	128.4	168.4#
98	62.2	44.3	84.3

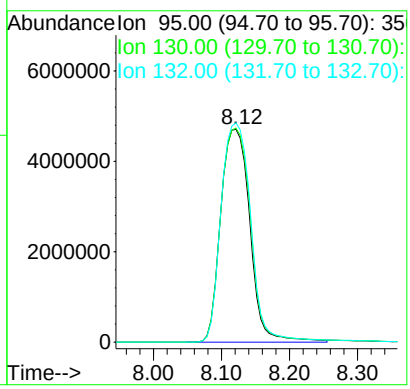




#49
trichloroete
Concen: 1.07 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356179.D
Acq: 12 Nov 2019 23:07

Tgt Ion: 95 Resp:14061669

Ion	Ratio	Lower	Upper
95	100		
130	102.8	94.7	134.7
132	104.8	91.8	131.8



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356180.D Vial: 16
Acq On : 12 Nov 2019 23:36 Operator: RLD-DGS
Sample : 166497,356180, Inst : VMS4
Misc : 5.63g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 23:57:00 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1004721	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	797145	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	420606	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	257767	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	54076	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	1013971	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	350880	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.07	50	1878	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	3228	Below Cal #	70
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	19146	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	3060	N.D.	
18) allylchloride	4.55	41	2505	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	17442	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.81	59	5411	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	22915	0.0012 mg/kg	95
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.20	77	2663	N.D.	
32) c12dichlorte	6.24	96	2043	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356180.D Vial: 16
Acq On : 12 Nov 2019 23:36 Operator: RLD-DGS
Sample : 166497,356180, Inst : VMS4
Misc : 5.63g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 23:57:00 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	6.91	56	1148	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.31	78	5152	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.13	95	30580	0.0023	mg/kg	94
50)	methylcyclohexane	8.36	83	1175	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.55	43	4182	N.D.		
61)	Toluene	9.76	92	4550	N.D.		
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	0.00	83	0	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	0.00	43	0	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1Clhexane	11.59	91	1659	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	0.00	91	0	N.D.		
75)	m p-Xylene	11.95	106	1578	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.56	75	10439	0.0006	mg/kg#	19
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.62	91	1255	N.D.		
88)	2chlorotolue	13.62	91	1255	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	13.87	105	1019	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.41	105	1709	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	0.00	119	0	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.45	91	1351	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

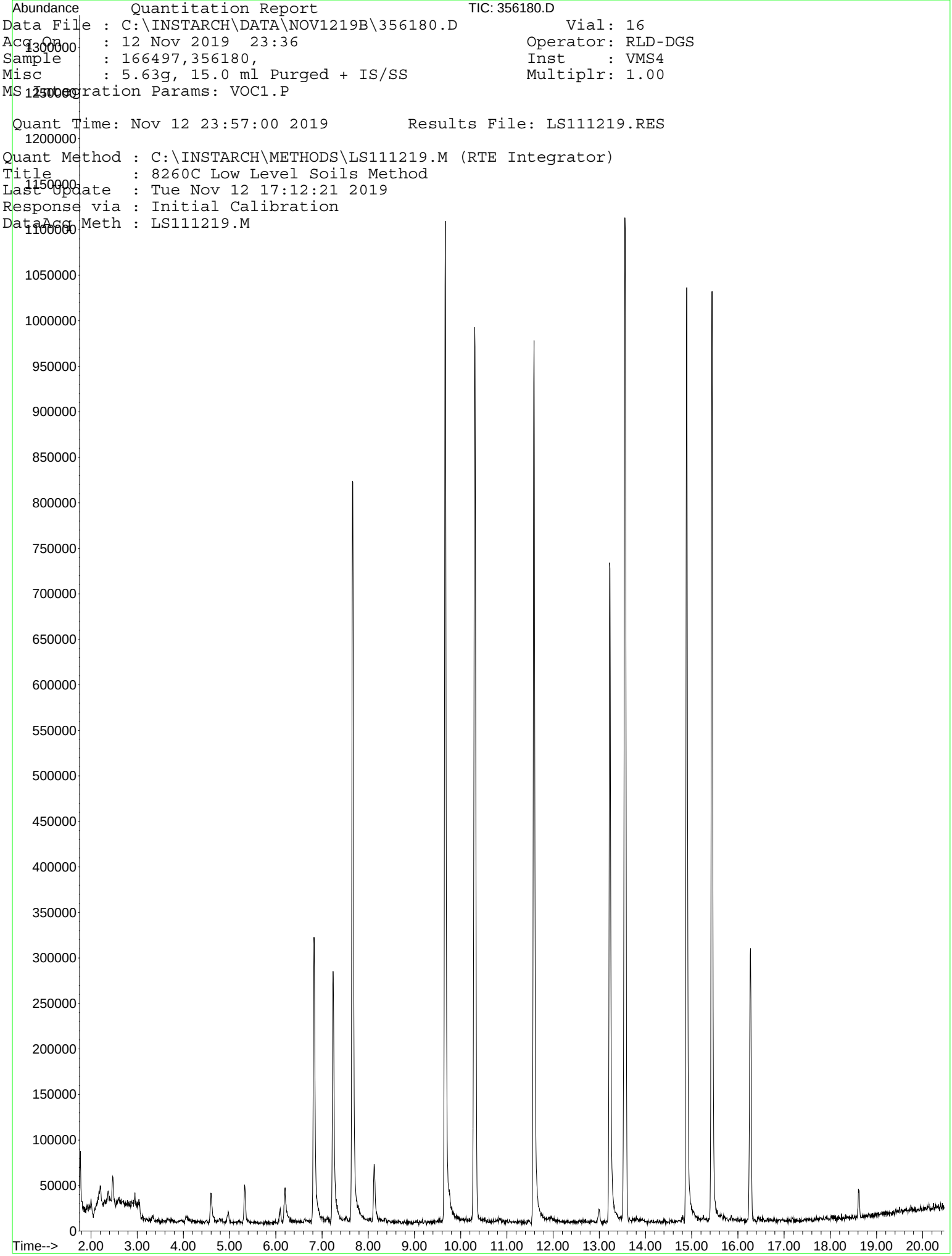
Data File : C:\INSTARCH\DATA\NOV1219B\356180.D Vial: 16
Acq On : 12 Nov 2019 23:36 Operator: RLD-DGS
Sample : 166497,356180, Inst : VMS4
Misc : 5.63g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 23:57:00 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	3286	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration


Abundance
Quantitation Report
TIC: 356180.D
Data File : C:\INSTARCH\DATA\NOV1219B\356180.D
Vial: 16
Acq On : 12 Nov 2019 23:36
Operator: RLD-DGS
Sample : 166497,356180,
Inst : VMS4
Misc : 5.63g, 15.0 ml Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC1.P
Quant Time: Nov 12 23:57:00 2019
Results File: LS111219.RES
Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
1300000
1250000
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1100000
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13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181.D Vial: 17
Acq On : 13 Nov 2019 00:05 Operator: RLD-DGS
Sample : 166497,356181, Inst : VMS4
Misc : 7.20g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:47:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	560971	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	446200	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	231954	0.02 mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	139439	0.020 mg/kg	0.00	
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	35841	0.025 mg/kg	0.00	
Spiked Amount 0.020	Range 71 - 136		Recovery = 125 %			
60) SURRd8Tolule	9.67	98	545402	0.019 mg/kg	0.00	
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %			
82) SURR4BrFBenz	13.23	95	201798	0.021 mg/kg	0.00	
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			

Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.07	50	1546	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	1907	Below Cal	100
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	20775	0.0111 mg/kg	98
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.21	76	2004	N.D.	
18) allylchloride	4.55	41	1475	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	11861	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.81	59	8603	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	1878	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.18	59	1676	N.D.	
31) 22dichloropr	6.19	77	3995	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181.D Vial: 17
Acq On : 13 Nov 2019 00:05 Operator: RLD-DGS
Sample : 166497,356181, Inst : VMS4
Misc : 7.20g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:47:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	1874	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.17	95	1111	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.52	43	5938	N.D.	
61)	Toluene	9.76	92	2262	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.30	83	2158	0.0004 mg/kg#	39
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	0.00	91	0	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	47656	0.0050 mg/kg#	55
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.54	91	2198	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	0.00	105	0	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	0.00	91	0	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181.D Vial: 17
Acq On : 13 Nov 2019 00:05 Operator: RLD-DGS
Sample : 166497,356181, Inst : VMS4
Misc : 7.20g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:47:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.01	128	3249	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

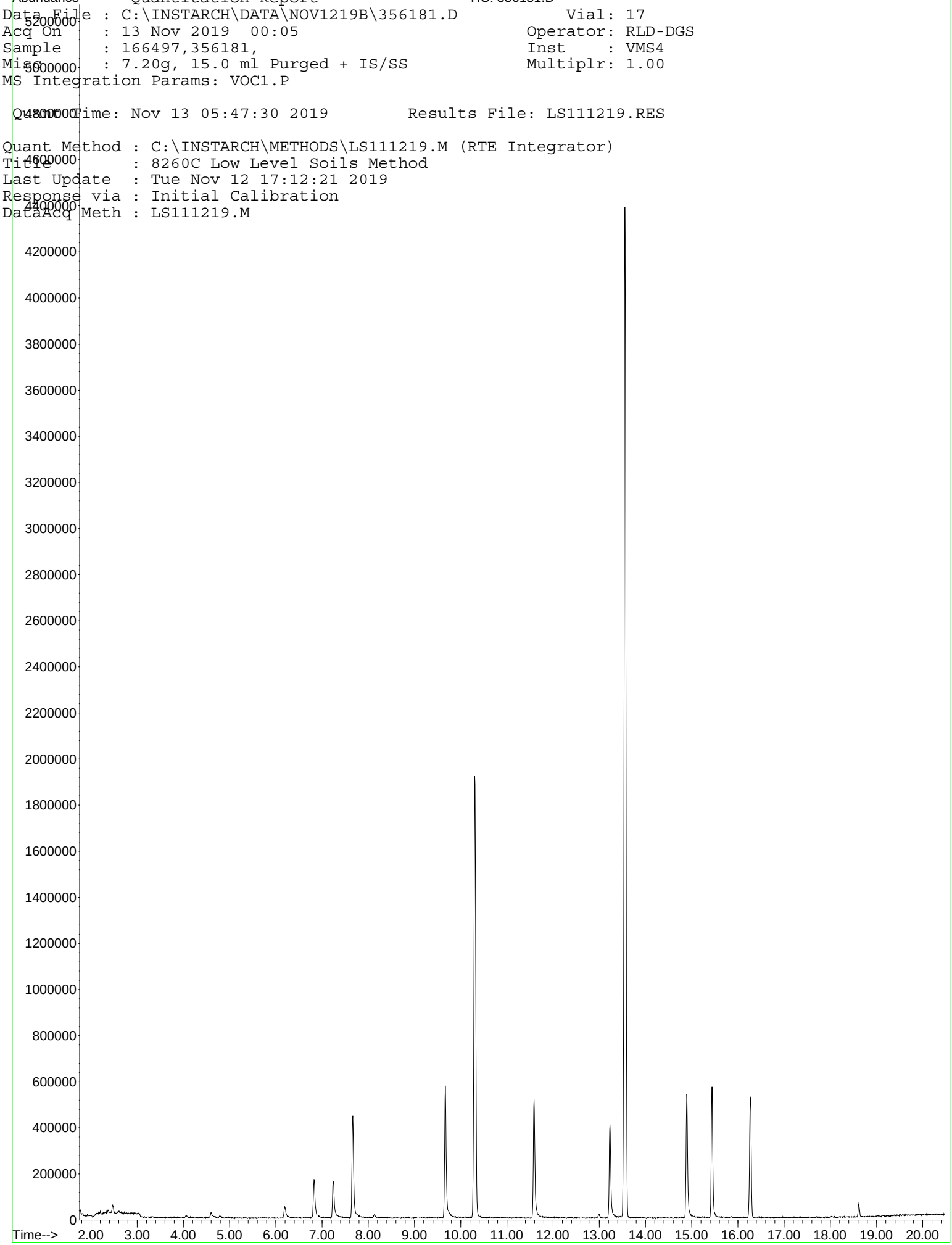
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356181.D

Data File : C:\INSTARCH\DATA\NOV1219B\356181.D Vial: 17
Acq On : 13 Nov 2019 00:05 Operator: RLD-DGS
Sample : 166497,356181, Inst : VMS4
Misc : 7.20g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:47:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356182.D Vial: 18
Acq On : 13 Nov 2019 00:34 Operator: RLD-DGS
Sample : 166497,356182, Inst : VMS4
Misc : 5.95g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:48:47 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	753897	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	603888	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	305637	0.02	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	197876	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.25	102	41747	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.67	98	757772	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	260804	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.07	50	2273	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.67	94	2403	Below Cal #		74
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.05	43	38872	0.0155	mg/kg	98
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.20	76	2420	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	20721	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	9691	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.32	57	4580	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	6.19	77	4453	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.62	42	1003	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356182.D Vial: 18
Acq On : 13 Nov 2019 00:34 Operator: RLD-DGS
Sample : 166497,356182, Inst : VMS4
Misc : 5.95g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:48:47 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	6.92	56	1107	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	3304	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.17	95	424	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.51	43	3093	N.D.	
61)	Toluene	9.76	92	20885	0.0008 mg/kg	94
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.31	83	2484	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.66	43	1920	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1182	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	21328	0.0017 mg/kg#	50
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.57	91	1296	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.40	105	2467	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	0.00	91	0	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356182.D Vial: 18
Acq On : 13 Nov 2019 00:34 Operator: RLD-DGS
Sample : 166497,356182, Inst : VMS4
Misc : 5.95g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:48:47 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.02	128	2652	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

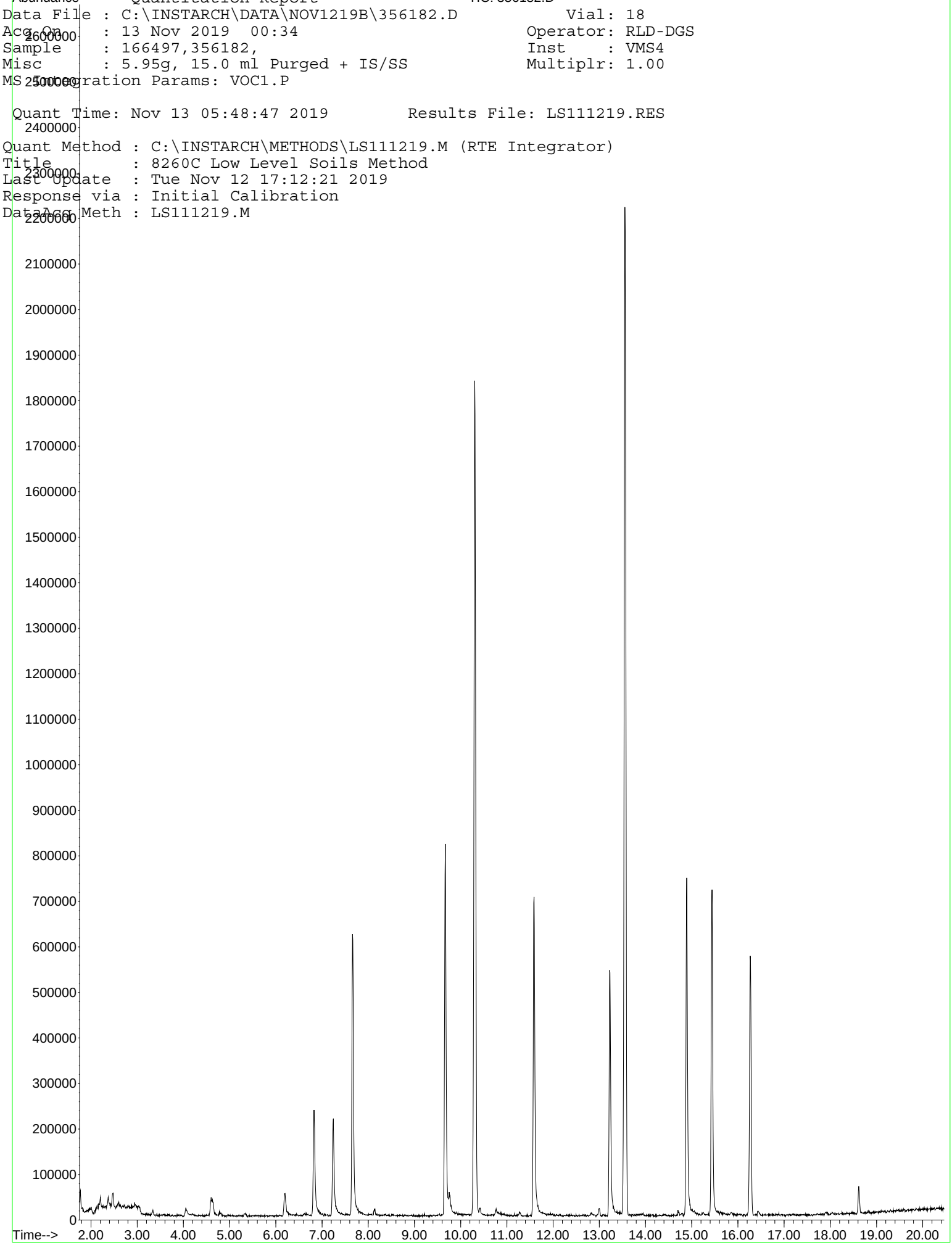
(#) = qualifier out of range (m) = manual integration

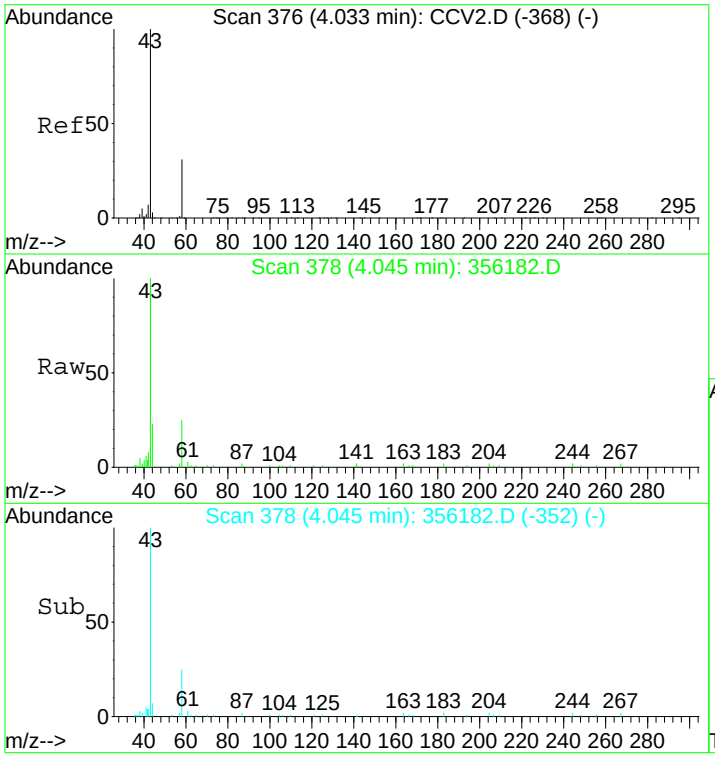
Abundance Quantitation Report TIC: 356182.D

Data File : C:\INSTARCH\DATA\NOV1219B\356182.D Vial: 18
Acq On : 13 Nov 2019 00:34 Operator: RLD-DGS
Sample : 166497,356182, Inst : VMS4
Misc : 5.95g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:48:47 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

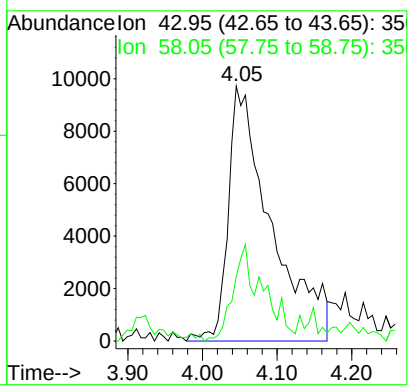


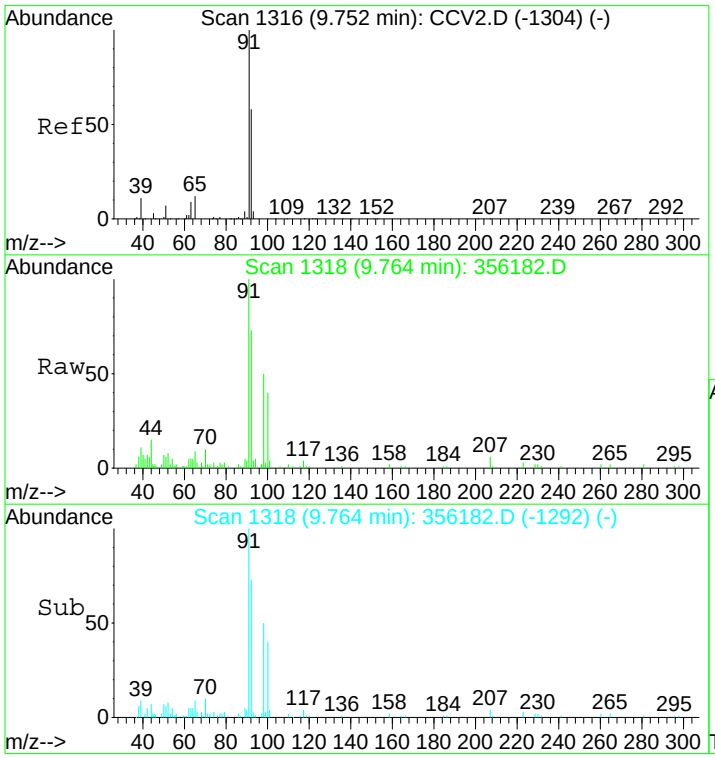


#15
Acetone
Concen: 0.02 mg/kg
RT: 4.05 min Scan# 378
Delta R.T. 0.01 min
Lab File: 356182.D
Acq: 13 Nov 2019 00:34

Tgt Ion: 43 Resp: 38872

Ion	Ratio	Lower	Upper
43	100		
58	26.6	7.7	47.7

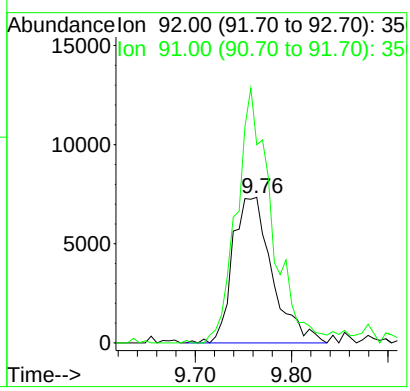


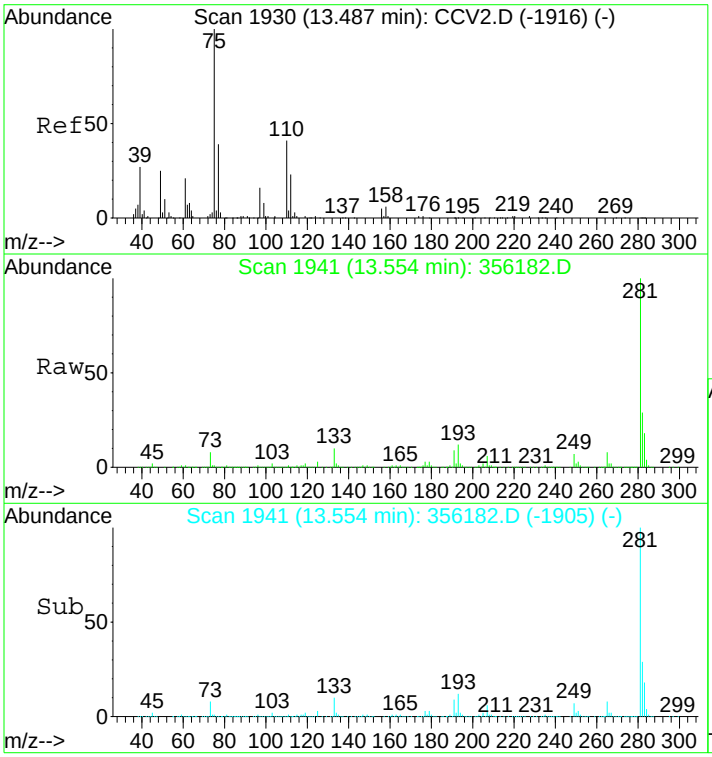


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.76 min Scan# 1318
Delta R.T. 0.01 min
Lab File: 356182.D
Acq: 13 Nov 2019 00:34

Tgt Ion: 92 Resp: 20885

Ion	Ratio	Lower	Upper
92	100		
91	159.8	148.0	188.0

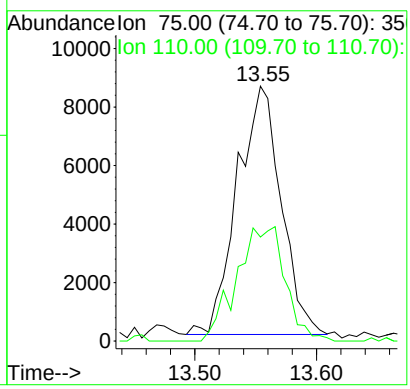




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356182.D
Acq: 13 Nov 2019 00:34

Tgt Ion: 75 Resp: 21328

Ion	Ratio	Lower	Upper
75	100		
110	50.8	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356183.D Vial: 19
Acq On : 13 Nov 2019 1:03 Operator: RLD-DGS
Sample : 166497,356183, Inst : VMS4
Misc : 4.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 01:23:55 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	984014	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.58	117	786449	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	434310	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	252123	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	55381	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	986324	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	344388	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2085	N.D.	
3) Chloromethan	2.06	50	2011	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.67	94	1963	Below Cal	95
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	22572	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	4794	N.D.	
18) allylchloride	4.47	41	2174	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	15018	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.82	59	4907	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	8086	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.20	77	1687	N.D.	
32) c12dichlorte	6.24	96	23090	0.0016 mg/kg#	85
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.64	42	1034	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356183.D Vial: 19
Acq On : 13 Nov 2019 1:03 Operator: RLD-DGS
Sample : 166497,356183, Inst : VMS4
Misc : 4.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 01:23:55 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.32	78	10855	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.12	95	720215	0.0550	mg/kg	94
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	8.60	69	1254	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.52	43	1622	N.D.		
61)	Toluene	9.76	92	5160	N.D.		
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	10.31	83	1945	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	0.00	43	0	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	11.64	112	2014	N.D.		
72)	1Clhexane	11.60	91	1952	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.78	91	1187	N.D.		
75)	m p-Xylene	0.00	106	0	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	13.22	55	1463	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	13.54	83	1766	N.D.		
85)	123Triclproa	13.55	75	32887	0.0018	mg/kg#	60
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.60	91	1289	N.D.		
88)	2chlorotolue	13.60	91	1289	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	0.00	105	0	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.40	105	2304	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	0.00	119	0	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	0.00	91	0	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356183.D Vial: 19
Acq On : 13 Nov 2019 1:03 Operator: RLD-DGS
Sample : 166497,356183, Inst : VMS4
Misc : 4.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 01:23:55 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	3689	N.D.	
104) 123Trichlben	18.34	180	1117	N.D.	

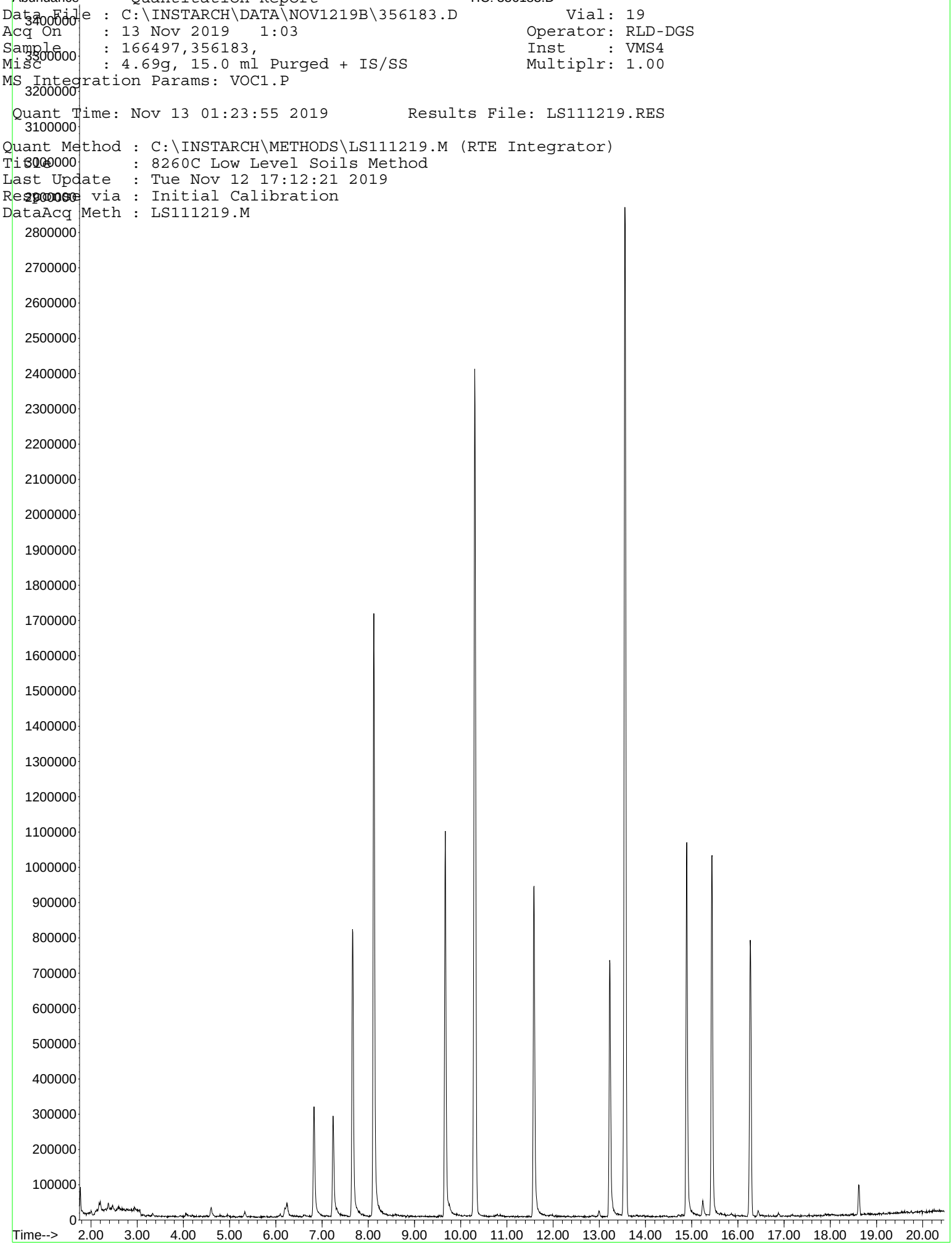
(#) = qualifier out of range (m) = manual integration

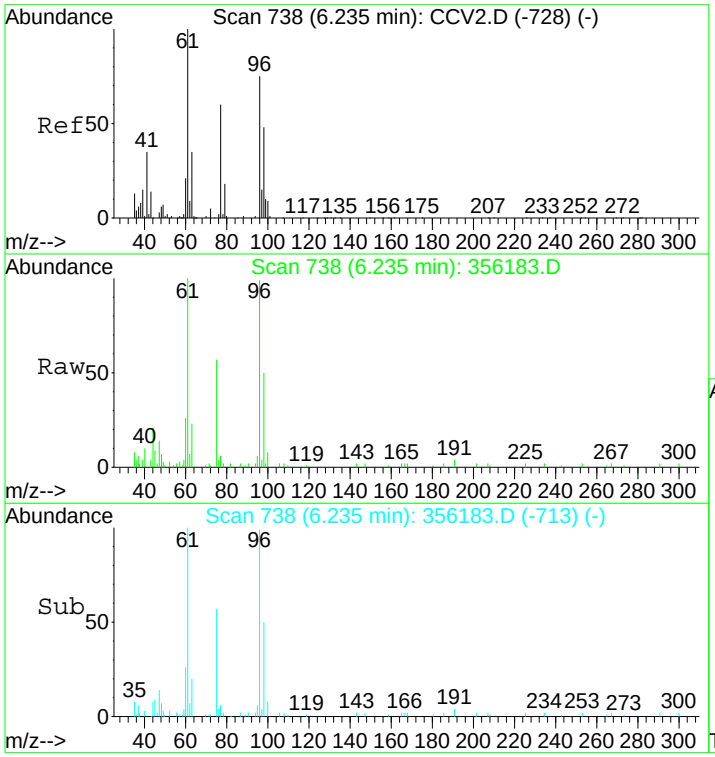
Abundance Quantitation Report TIC: 356183.D

Data File : C:\INSTARCH\DATA\NOV1219B\356183.D Vial: 19
Acq On : 13 Nov 2019 1:03 Operator: RLD-DGS
Sample : 166497,356183, Inst : VMS4
Misc : 4.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 01:23:55 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

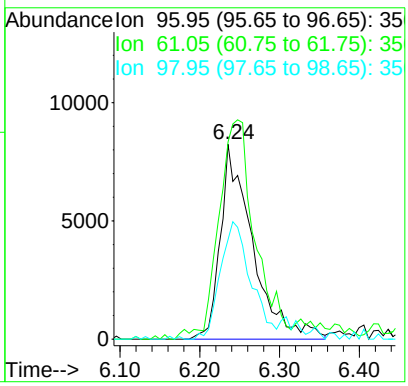


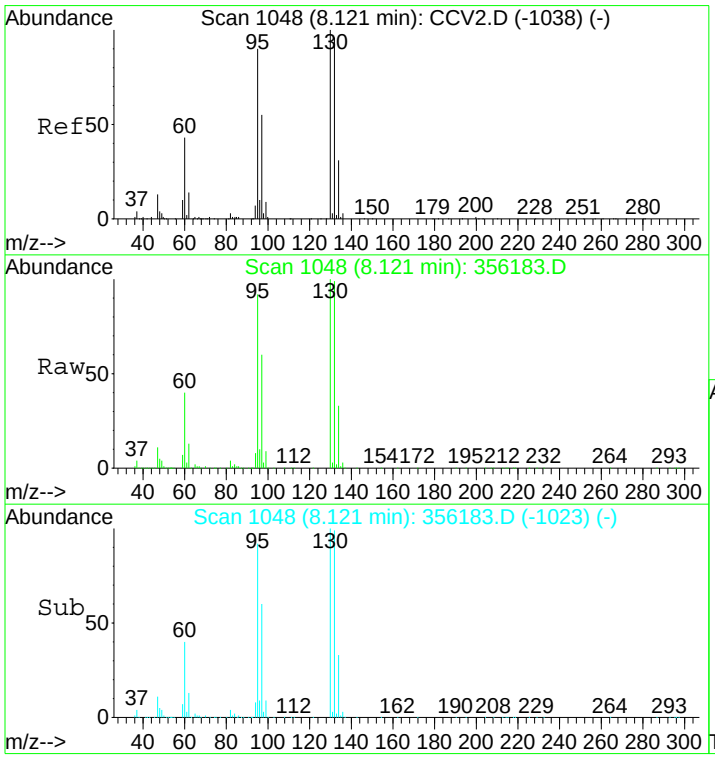


#32
c12dichlorte
Concen: 0.00 mg/kg
RT: 6.24 min Scan# 738
Delta R.T. -0.00 min
Lab File: 356183.D
Acq: 13 Nov 2019 1:03

Tgt Ion: 96 Resp: 23090

Ion	Ratio	Lower	Upper
96	100		
61	125.7	128.4	168.4#
98	57.4	44.3	84.3

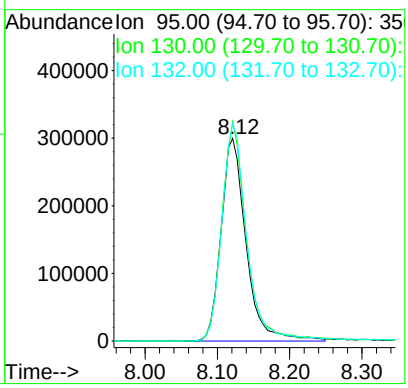


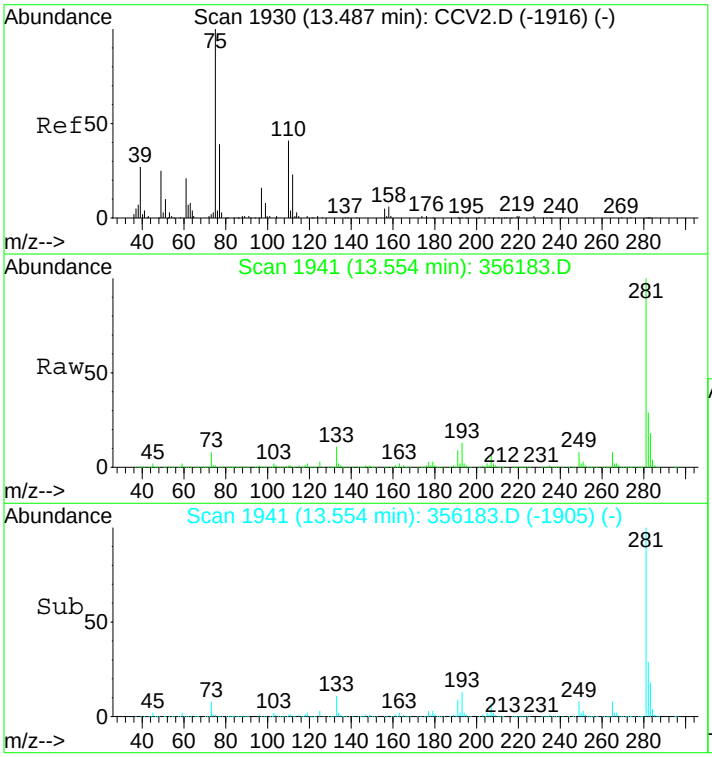


#49
trichloroete
Concen: 0.06 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356183.D
Acq: 13 Nov 2019 1:03

Tgt Ion: 95 Resp: 720215

Ion	Ratio	Lower	Upper
95	100		
130	106.8	94.7	134.7
132	106.8	91.8	131.8

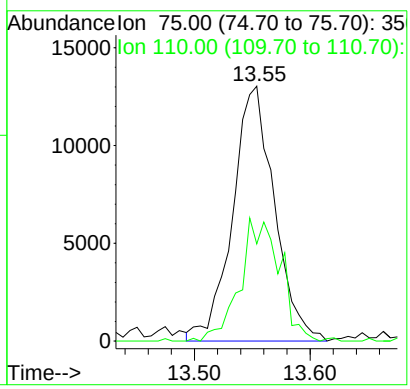




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356183.D
Acq: 13 Nov 2019 1:03

Tgt Ion: 75 Resp: 32887

Ion	Ratio	Lower	Upper
75	100		
110	45.9	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356184.D Vial: 20
Acq On : 13 Nov 2019 1:32 Operator: RLD-DGS
Sample : 166497,356184, Inst : VMS4
Misc : 5.46g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 01:52:53 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	797718	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	626671	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	333203	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	205317	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	48825	0.024 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 120 %		
60) SURRd8Tolule	9.67	98	787313	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	275642	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.07	50	2540	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.70	94	1291	Below Cal # 12	
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.93	96	1421	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.08	43	15406	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	2448	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	17068	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	14018	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.32	57	5010	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	3028	N.D.	
31) 22dichloropr	6.19	77	10020	0.0007 mg/kg#	64
32) c12dichlorte	6.24	96	59743	0.0051 mg/kg	94
33) 2Butanone	6.21	72	1114	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.63	42	1795	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356184.D Vial: 20
Acq On : 13 Nov 2019 1:32 Operator: RLD-DGS
Sample : 166497,356184, Inst : VMS4
Misc : 5.46g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 01:52:53 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	1336901	0.1260 mg/kg	97
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	2421	N.D.	
61)	Toluene	9.75	92	1736	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.31	83	1325	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1284	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	13.54	83	1631	N.D.	
85)	123Triclproa	13.55	75	35950	0.0026 mg/kg#	50
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.40	105	1066	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.48	91	1743	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356184.D Vial: 20
Acq On : 13 Nov 2019 1:32 Operator: RLD-DGS
Sample : 166497,356184, Inst : VMS4
Misc : 5.46g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 01:52:53 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	2613	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

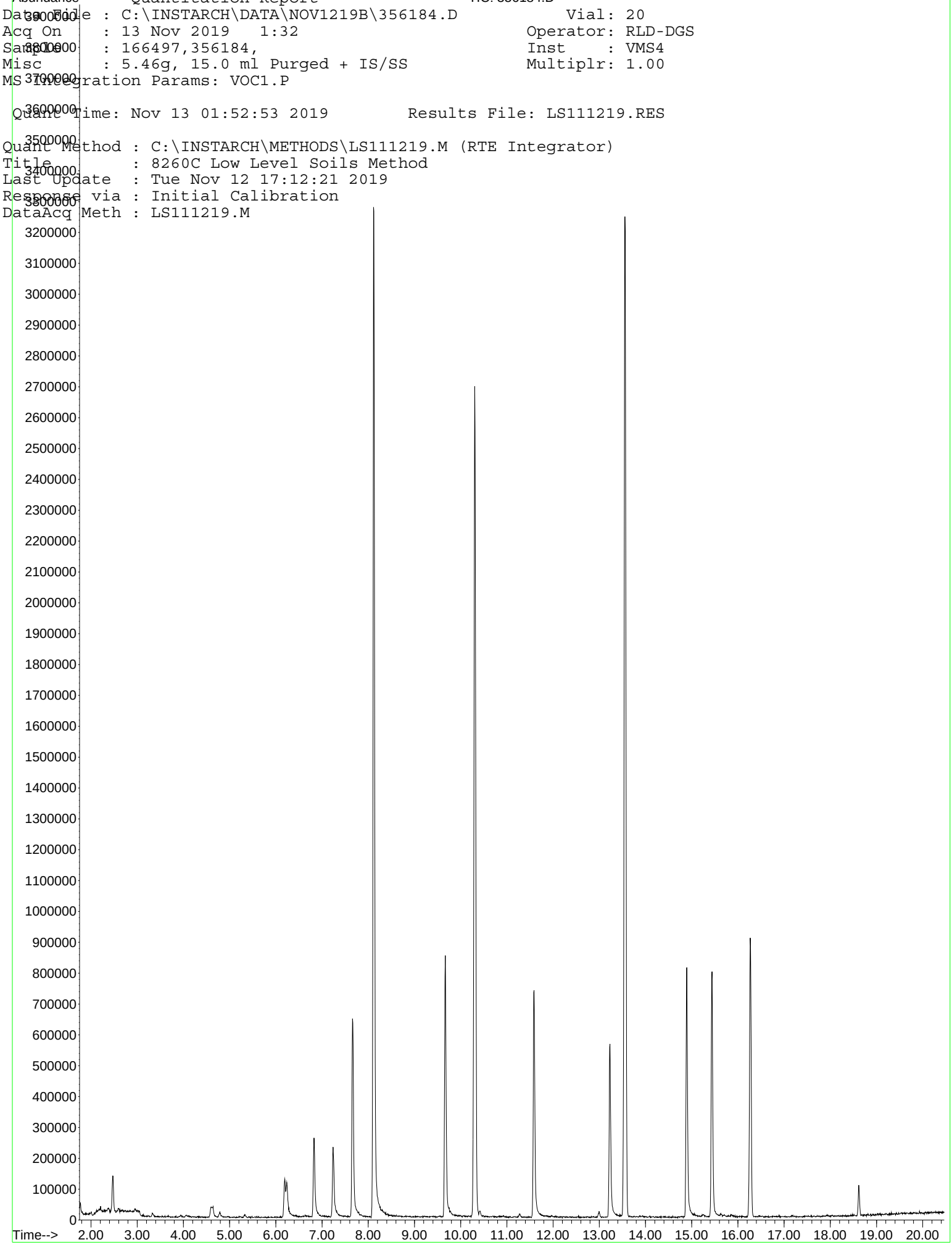
(#) = qualifier out of range (m) = manual integration

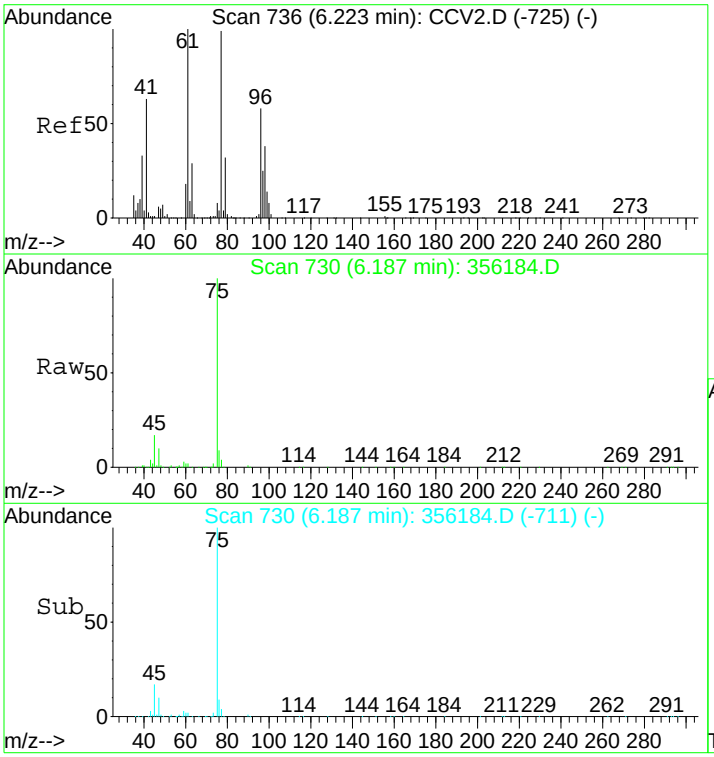
Abundance Quantitation Report TIC: 356184.D

Data File : C:\INSTARCH\DATA\NOV1219B\356184.D Vial: 20
Acq On : 13 Nov 2019 1:32 Operator: RLD-DGS
Sample : 166497,356184, Inst : VMS4
Misc : 5.46g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 01:52:53 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

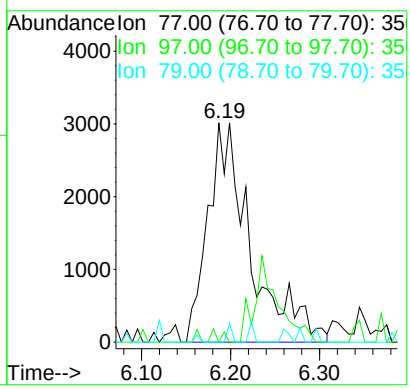




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.19 min Scan# 730
Delta R.T. -0.04 min
Lab File: 356184.D
Acq: 13 Nov 2019 1:32

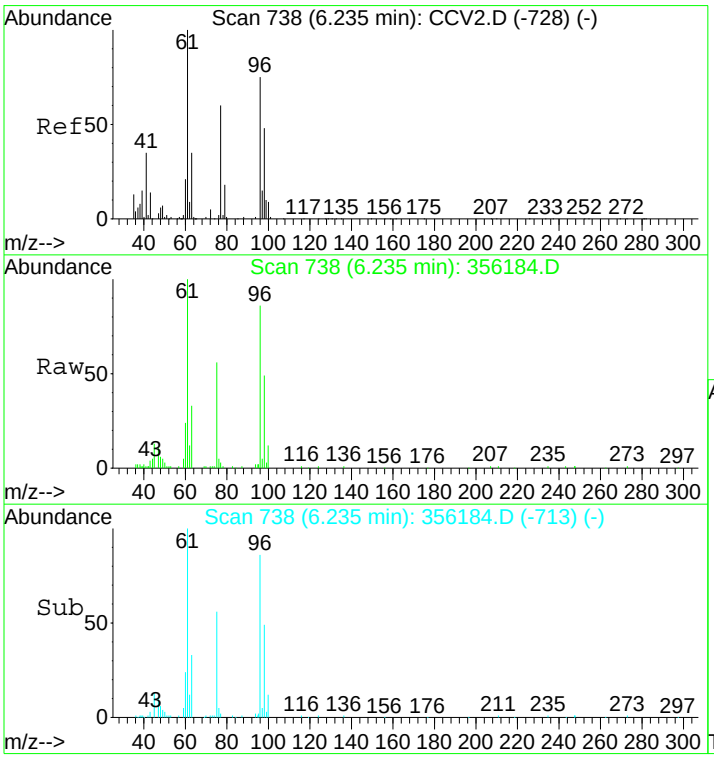
Tgt Ion: 77 Resp: 10020

Ion	Ratio	Lower	Upper
77	100		
97	21.9	5.2	45.2
79	0.0	13.4	53.4#



Negative Library Identification

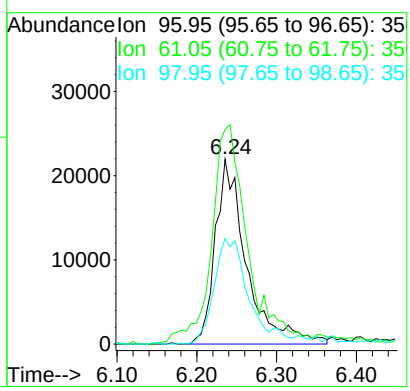
[redacted]

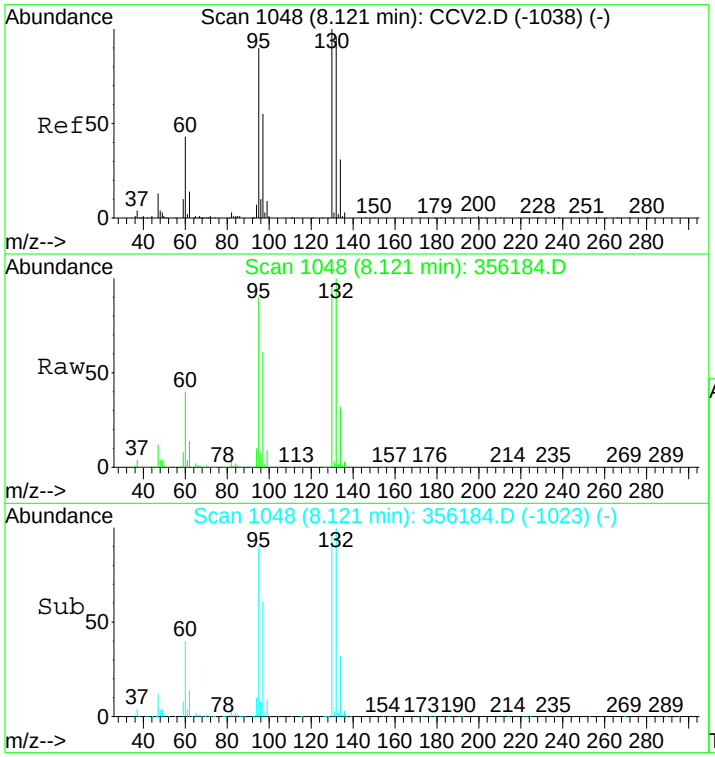


#32
c12dichlorte
Concen: 0.01 mg/kg
RT: 6.24 min Scan# 738
Delta R.T. 0.00 min
Lab File: 356184.D
Acq: 13 Nov 2019 1:32

Tgt Ion: 96 Resp: 59743

Ion	Ratio	Lower	Upper
96	100		
61	138.6	128.4	168.4
98	65.5	44.3	84.3

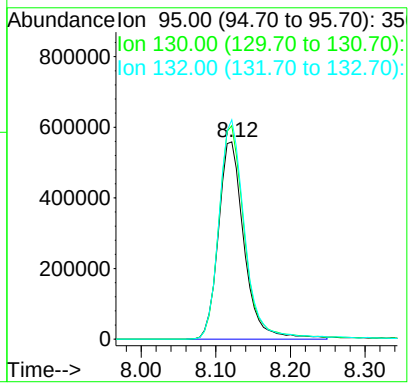


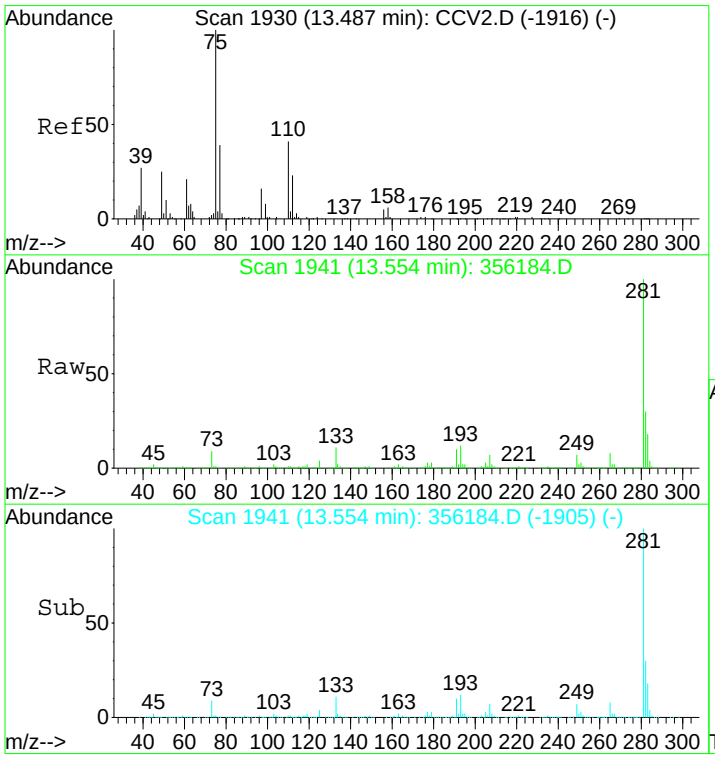


#49
trichloroete
Concen: 0.13 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356184.D
Acq: 13 Nov 2019 1:32

Tgt Ion: 95 Resp: 1336901

Ion	Ratio	Lower	Upper
95	100		
130	108.3	94.7	134.7
132	110.8	91.8	131.8

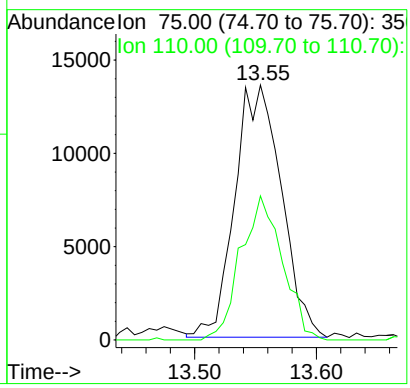




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356184.D
Acq: 13 Nov 2019 1:32

Tgt Ion: 75 Resp: 35950

Ion	Ratio	Lower	Upper
75	100		
110	51.1	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356186.D Vial: 21
Acq On : 13 Nov 2019 2:01 Operator: RLD-DGS
Sample : 166497,356186, Inst : VMS4
Misc : 4.87g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:52:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	984880	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	784992	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	430696	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	247311	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %		
45) SURR12DCAd4	7.24	102	56722	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	983998	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	353002	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	1.82	85	2070	N.D.	
3) Chloromethan	2.05	50	1653	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.68	94	2753	Below Cal	83
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	3.22	101	7374	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	19113	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	3182	N.D.	
18) allylchloride	4.49	41	1511	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	19278	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.81	59	18302	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	2689	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.20	77	9669	0.0006 mg/kg#	45
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	6.19	72	1196	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.61	42	1253	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356186.D Vial: 21
Acq On : 13 Nov 2019 2:01 Operator: RLD-DGS
Sample : 166497,356186, Inst : VMS4
Misc : 4.87g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:52:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.31	78	2320	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.16	95	538	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.54	43	6091	N.D.	
61)	Toluene	9.76	92	4910	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.29	83	2288	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.59	91	1586	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	30227	0.0017 mg/kg	61
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.54	91	1255	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.40	105	1608	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.44	91	2097	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356186.D Vial: 21
Acq On : 13 Nov 2019 2:01 Operator: RLD-DGS
Sample : 166497,356186, Inst : VMS4
Misc : 4.87g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:52:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	3235	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

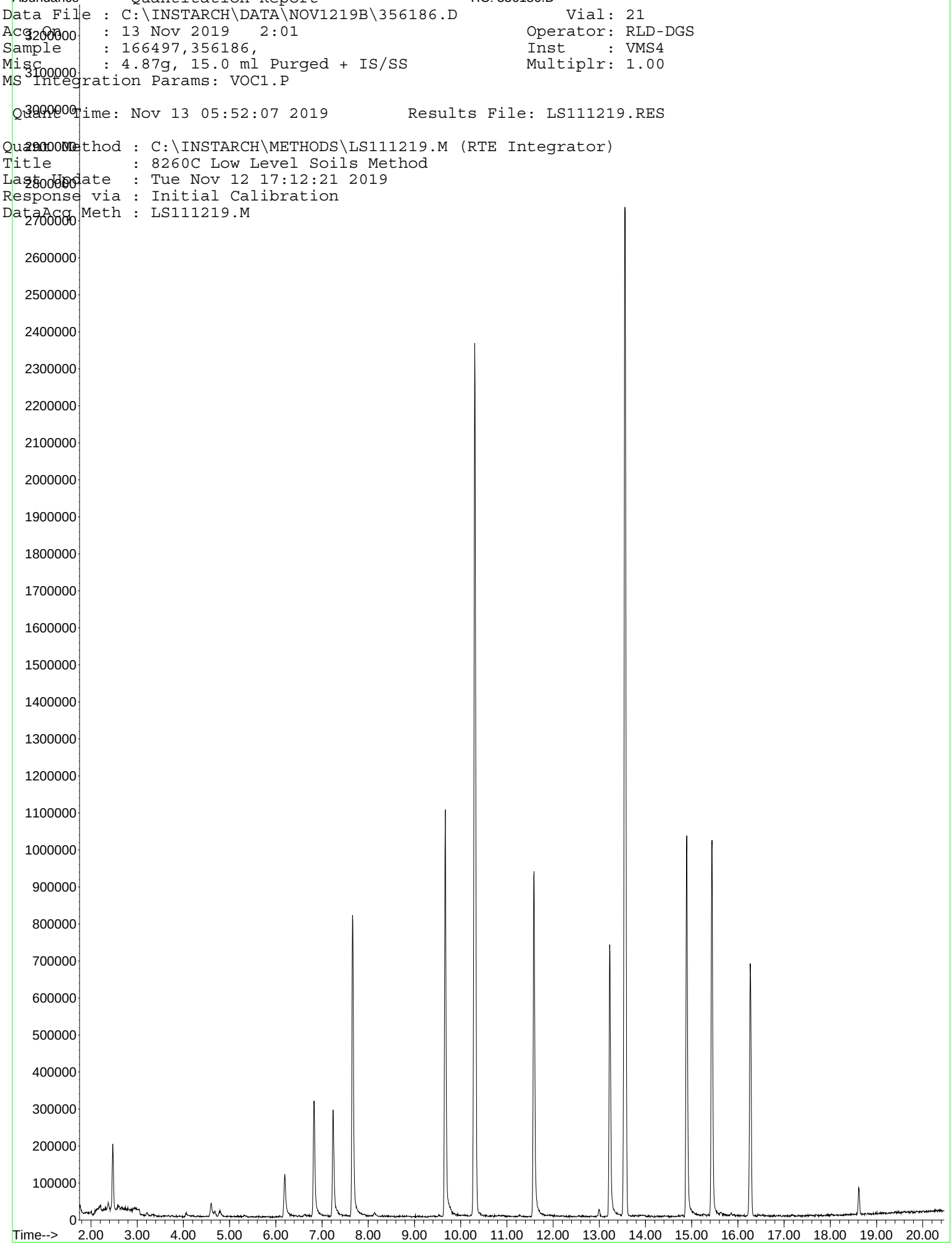
(#) = qualifier out of range (m) = manual integration

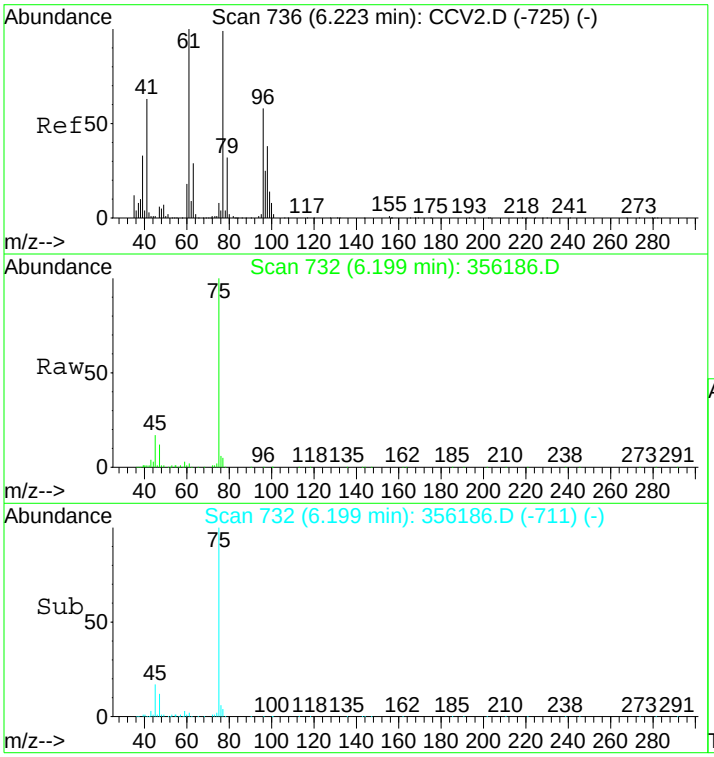
Abundance Quantitation Report TIC: 356186.D

Data File : C:\INSTARCH\DATA\NOV1219B\356186.D Vial: 21
Acq On : 13 Nov 2019 2:01 Operator: RLD-DGS
Sample : 166497,356186, Inst : VMS4
Misc : 4.87g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 05:52:07 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

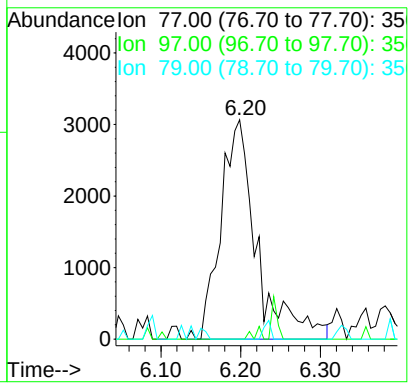




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.20 min Scan# 732
Delta R.T. -0.02 min
Lab File: 356186.D
Acq: 13 Nov 2019 2:01

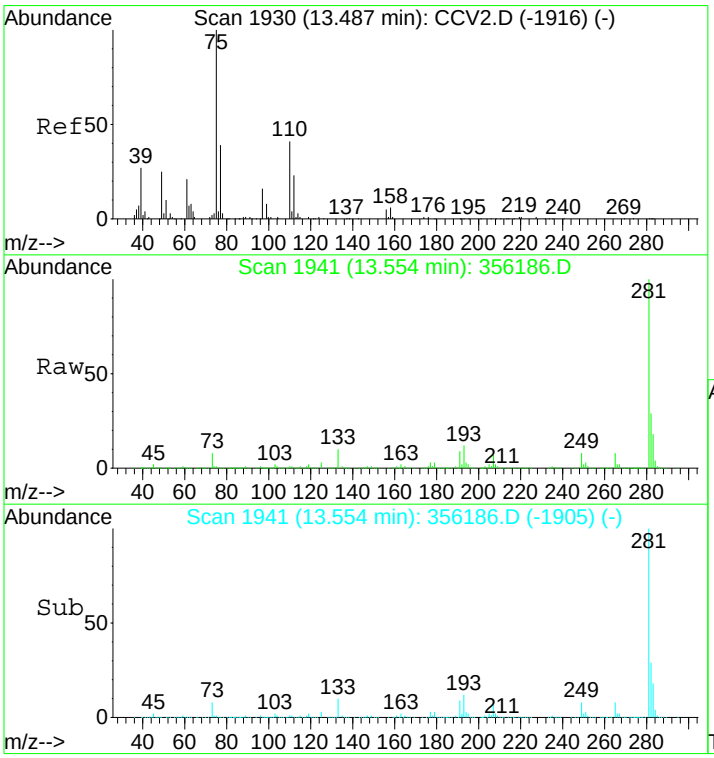
Tgt Ion: 77 Resp: 9669

Ion	Ratio	Lower	Upper
77	100		
97	0.0	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

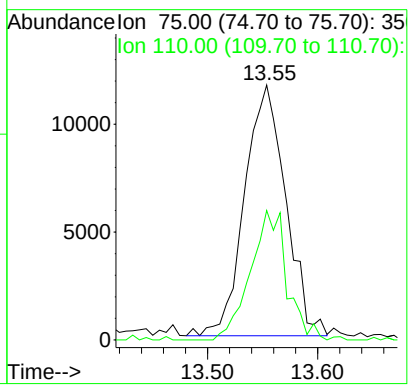
[redacted]



#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356186.D
Acq: 13 Nov 2019 2:01

Tgt Ion: 75 Resp: 30227

Ion	Ratio	Lower	Upper
75	100		
110	45.5	5.6	45.6



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356187.D Vial: 22
Acq On : 13 Nov 2019 2:30 Operator: RLD-DGS
Sample : 166497,356187, Inst : VMS4
Misc : 6.94g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 02:50:56 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	954741	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	748253	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	413423	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	238390	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %		
45) SURR12DCAd4	7.24	102	50364	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %		
60) SURRd8Tolule	9.67	98	941936	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	326154	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	0.00	50	0	N.D.	
4) VinylChlorid	2.21	62	6307	N.D.	
5) Bromomethane	2.69	94	1353	Below Cal #	75
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	10102	0.0009 mg/kg	92
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	16439	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	2676	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	29717	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.96	96	3990	N.D.	
23) tbutylalcohol	4.79	59	11227	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.32	57	3970	N.D.	
26) 11dichlorota	5.49	63	5635	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.19	77	3258	N.D.	
32) c12dichlorte	6.23	96	537418	0.0385 mg/kg#	89
33) 2Butanone	6.22	72	3469	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.67	42	1563	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356187.D Vial: 22
Acq On : 13 Nov 2019 2:30 Operator: RLD-DGS
Sample : 166497,356187, Inst : VMS4
Misc : 6.94g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 02:50:56 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.64	83	2670	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.33	78	2253	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	14558562	1.1462 mg/kg	91
50)	methylcyclohexane	8.26	83	1342	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.51	43	6364	N.D.	
61)	Toluene	9.76	92	9583	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.30	83	2489	N.D.	
65)	Tetrachlorte	10.49	166	1558	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.54	43	1779	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.59	91	1622	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.24	55	1184	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	13.54	83	1207	N.D.	
85)	123Triclproa	13.56	75	24252	0.0014 mg/kg	65
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1455	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.45	91	2137	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356187.D Vial: 22
Acq On : 13 Nov 2019 2:30 Operator: RLD-DGS
Sample : 166497,356187, Inst : VMS4
Misc : 6.94g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 02:50:56 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	3285	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

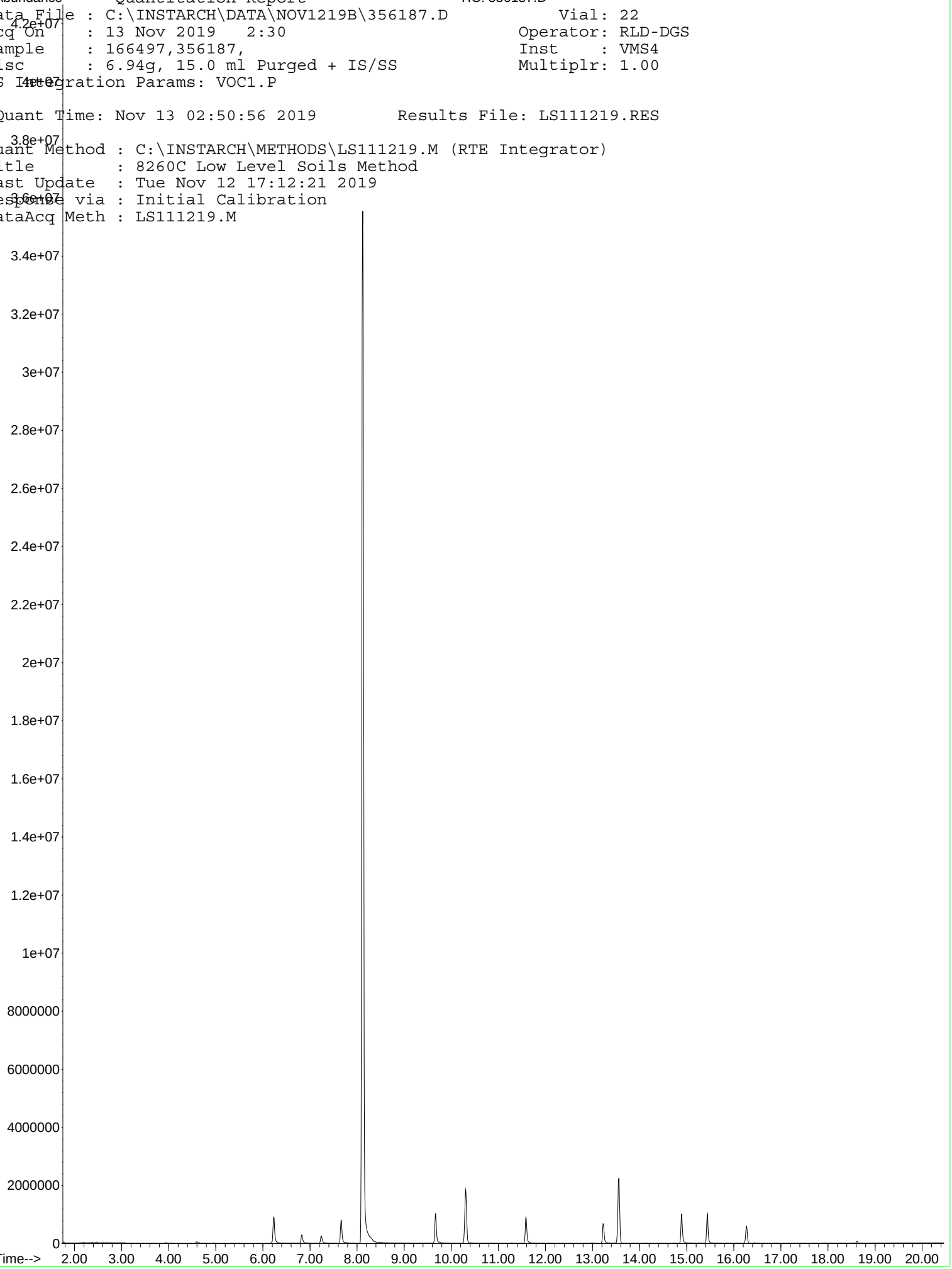
(#) = qualifier out of range (m) = manual integration

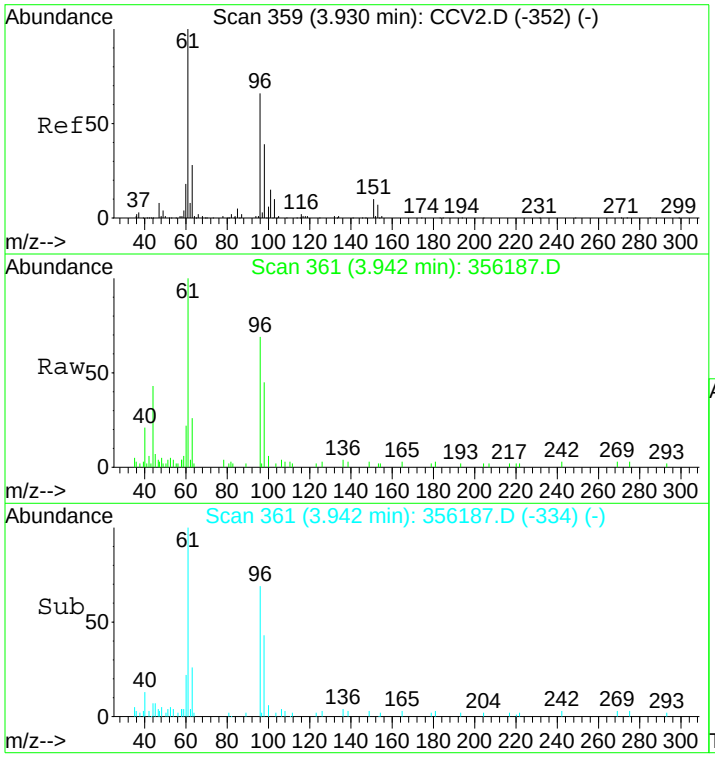
Abundance Quantitation Report TIC: 356187.D

Data File : C:\INSTARCH\DATA\NOV1219B\356187.D Vial: 22
Acq On : 13 Nov 2019 2:30 Operator: RLD-DGS
Sample : 166497,356187, Inst : VMS4
Misc : 6.94g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 02:50:56 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

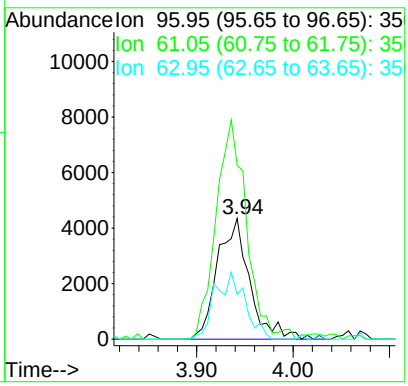


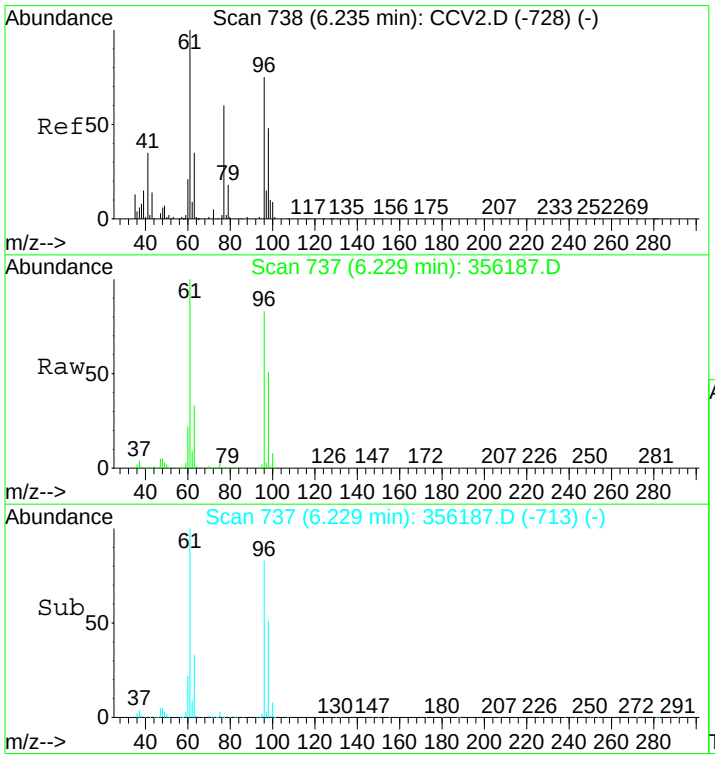


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 361
Delta R.T. 0.01 min
Lab File: 356187.D
Acq: 13 Nov 2019 2:30

Tgt Ion: 96 Resp: 10102

Ion	Ratio	Lower	Upper
96	100		
61	171.7	139.7	179.7
63	51.2	29.4	69.4

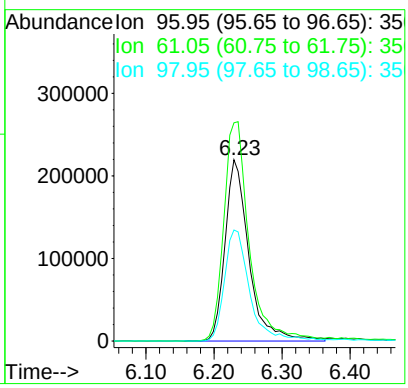


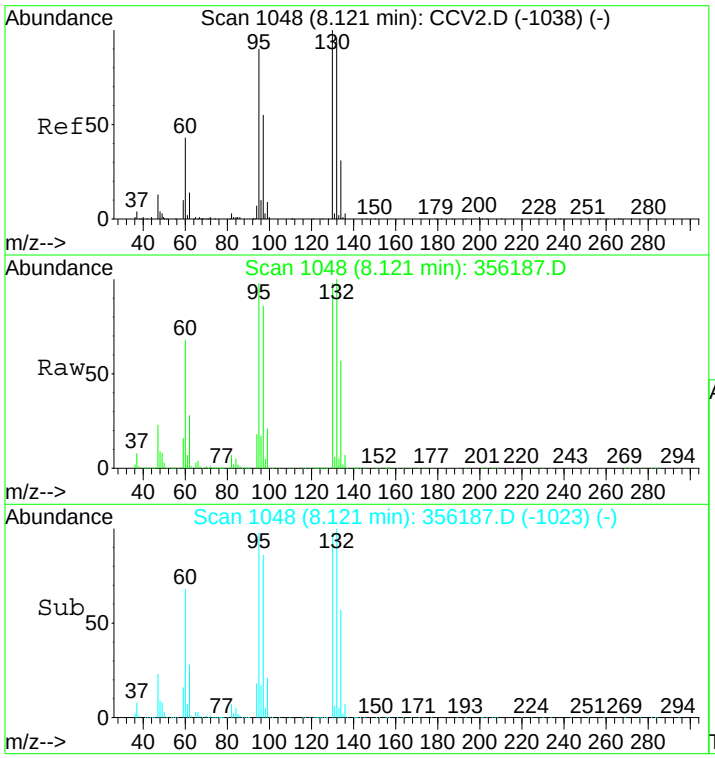


#32
c12dichlorte
Concen: 0.04 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356187.D
Acq: 13 Nov 2019 2:30

Tgt Ion: 96 Resp: 537418

Ion	Ratio	Lower	Upper
96	100		
61	128.3	128.4	168.4#
98	64.4	44.3	84.3

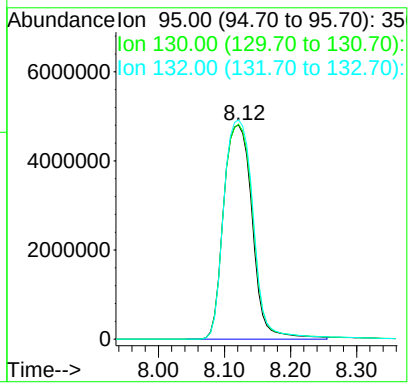


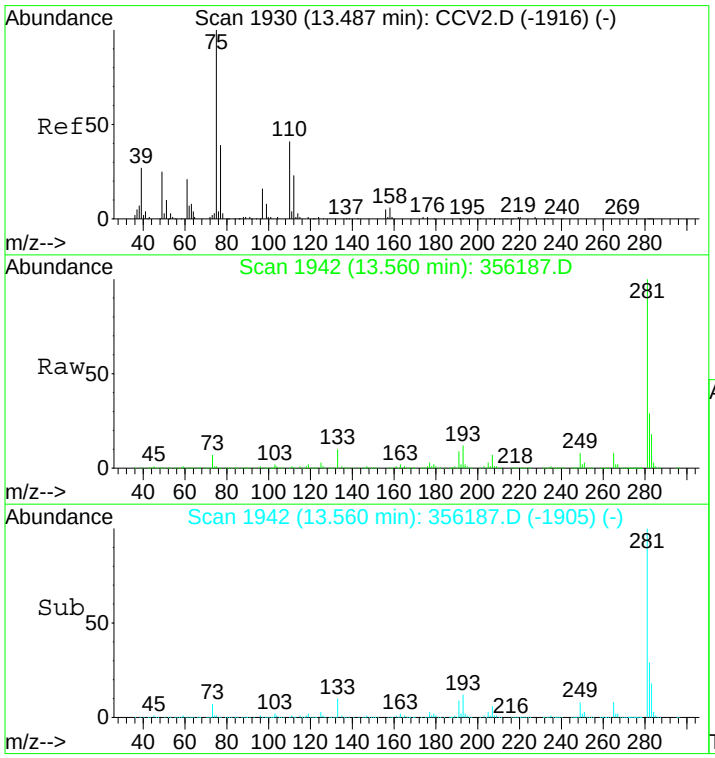


#49
trichloroete
Concen: 1.15 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356187.D
Acq: 13 Nov 2019 2:30

Tgt Ion: 95 Resp:14558562

Ion	Ratio	Lower	Upper
95	100		
130	102.6	94.7	134.7
132	104.7	91.8	131.8

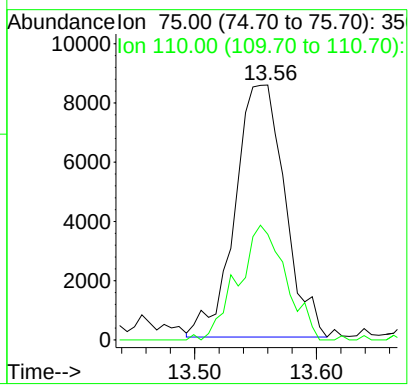




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.56 min Scan# 1942
Delta R.T. 0.07 min
Lab File: 356187.D
Acq: 13 Nov 2019 2:30

Tgt Ion: 75 Resp: 24252

Ion	Ratio	Lower	Upper
75	100		
110	43.5	5.6	45.6



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356188.D Vial: 23
Acq On : 13 Nov 2019 2:59 Operator: RLD-DGS
Sample : 166497,356188, Inst : VMS4
Misc : 5.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 03:19:59 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	915552	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	691330	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	347511	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	233382	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.25	102	54192	0.023	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %			
60) SURRd8Tolule	9.67	98	876234	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %			
82) SURR4BrFBenz	13.23	95	297513	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	2355	N.D.		
3) Chloromethan	2.06	50	2368	N.D.		
4) VinylChlorid	2.21	62	3062	N.D.		
5) Bromomethane	2.68	94	2501	Below Cal		80
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	3.94	96	6750	0.0006	mg/kg	100
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.05	43	14046	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.21	76	2405	N.D.		
18) allylchloride	4.49	41	1197	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	25862	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	4.96	96	2413	N.D.		
23) tbutylalcohol	4.79	59	16454	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.33	57	8188	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	6.25	77	1872	N.D.		
32) c12dichlorte	6.23	96	630173	0.0470	mg/kg	90
33) 2Butanone	6.24	72	5922	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356188.D Vial: 23
Acq On : 13 Nov 2019 2:59 Operator: RLD-DGS
Sample : 166497,356188, Inst : VMS4
Misc : 5.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 03:19:59 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.64	83	1058	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.32	78	3082	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.12	95	9709979	0.7972	mg/kg	93
50)	methylcyclohexane	8.36	83	1182	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.53	43	4627	N.D.		
61)	Toluene	9.76	92	4025	N.D.		
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	10.29	83	1791	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	0.00	43	0	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1Clhexane	11.58	91	1831	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	0.00	91	0	N.D.		
75)	m p-Xylene	0.00	106	0	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	13.54	83	2014	N.D.		
85)	123Triclproa	13.55	75	35086	0.0025	mg/kg	72
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	0.00	91	0	N.D.		
88)	2chlorotolue	0.00	91	0	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	0.00	105	0	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.39	105	1966	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	0.00	119	0	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.44	91	1443	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356188.D Vial: 23
Acq On : 13 Nov 2019 2:59 Operator: RLD-DGS
Sample : 166497,356188, Inst : VMS4
Misc : 5.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 03:19:59 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	2302	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

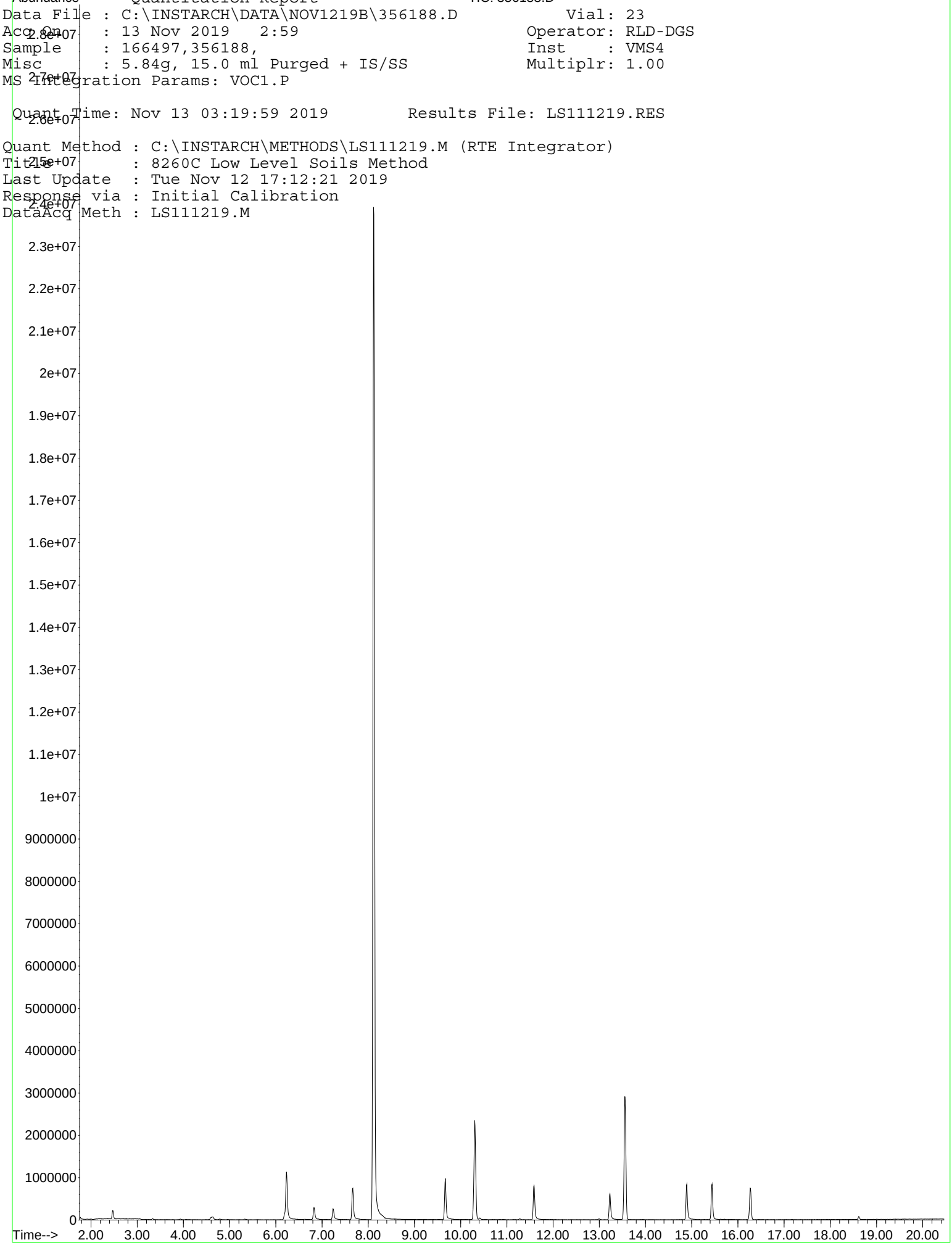
(#) = qualifier out of range (m) = manual integration

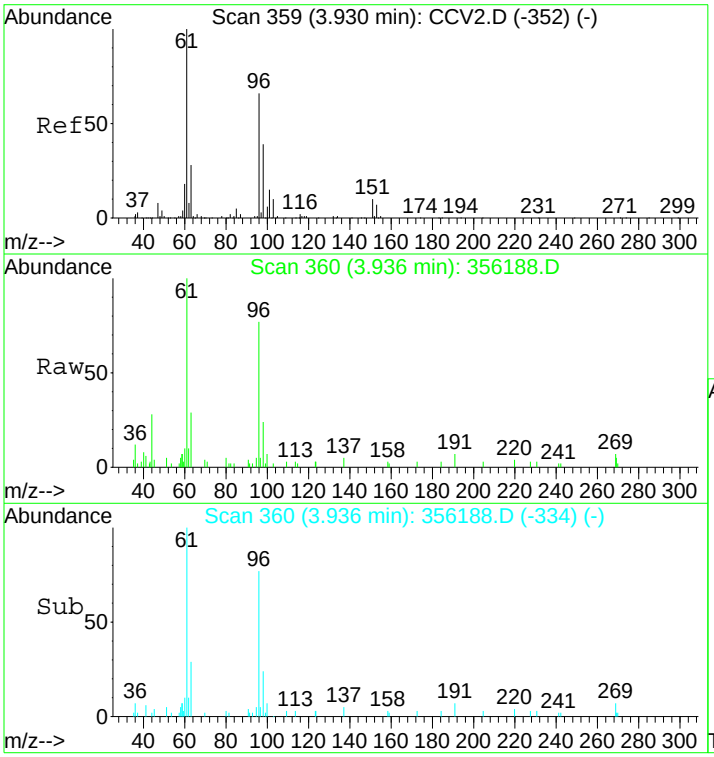
Abundance Quantitation Report TIC: 356188.D

Data File : C:\INSTARCH\DATA\NOV1219B\356188.D Vial: 23
Acq On : 13 Nov 2019 2:59 Operator: RLD-DGS
Sample : 166497,356188, Inst : VMS4
Misc : 5.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 03:19:59 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

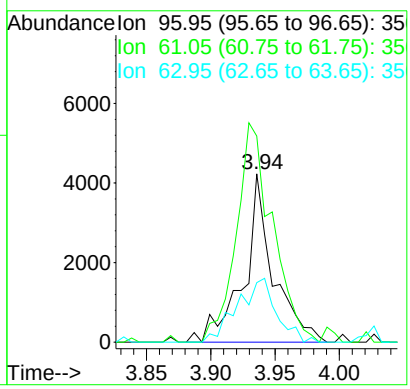


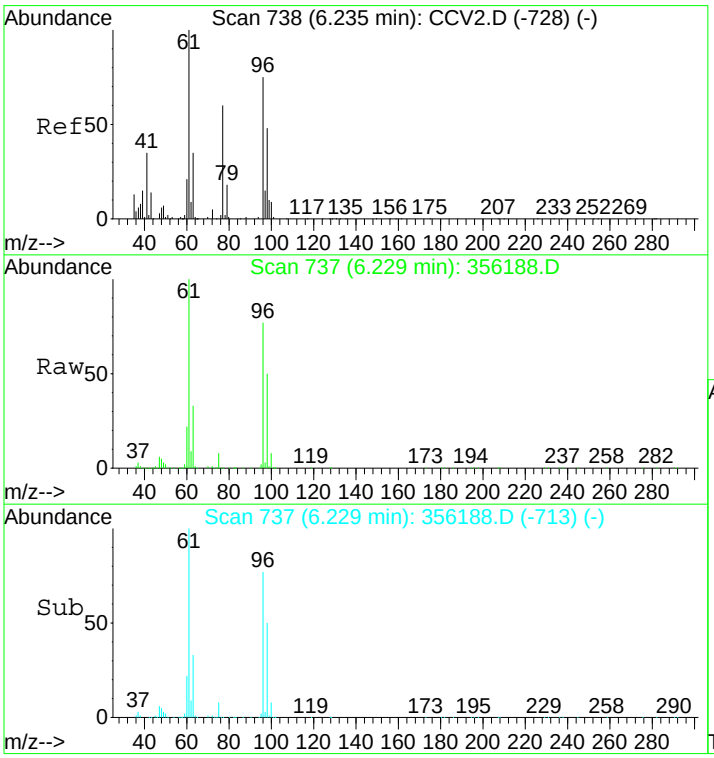


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356188.D
Acq: 13 Nov 2019 2:59

Tgt Ion: 96 Resp: 6750

Ion	Ratio	Lower	Upper
96	100		
61	159.5	139.7	179.7
63	50.2	29.4	69.4

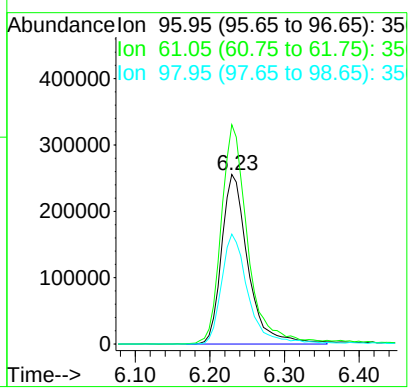


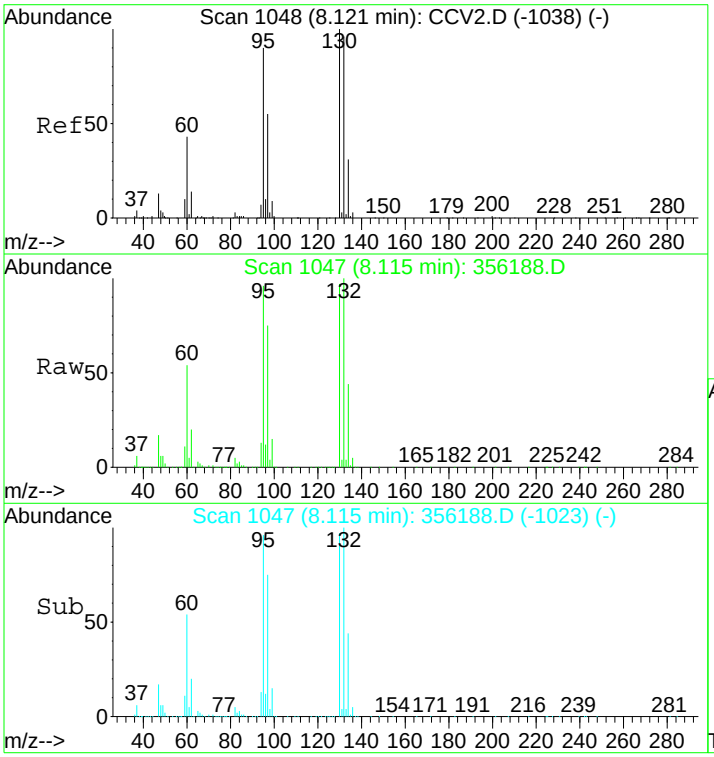


#32
c12dichlorte
Concen: 0.05 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356188.D
Acq: 13 Nov 2019 2:59

Tgt Ion: 96 Resp: 630173

Ion	Ratio	Lower	Upper
96	100		
61	130.2	128.4	168.4
98	65.3	44.3	84.3

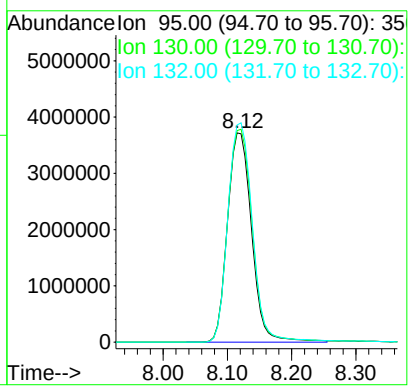


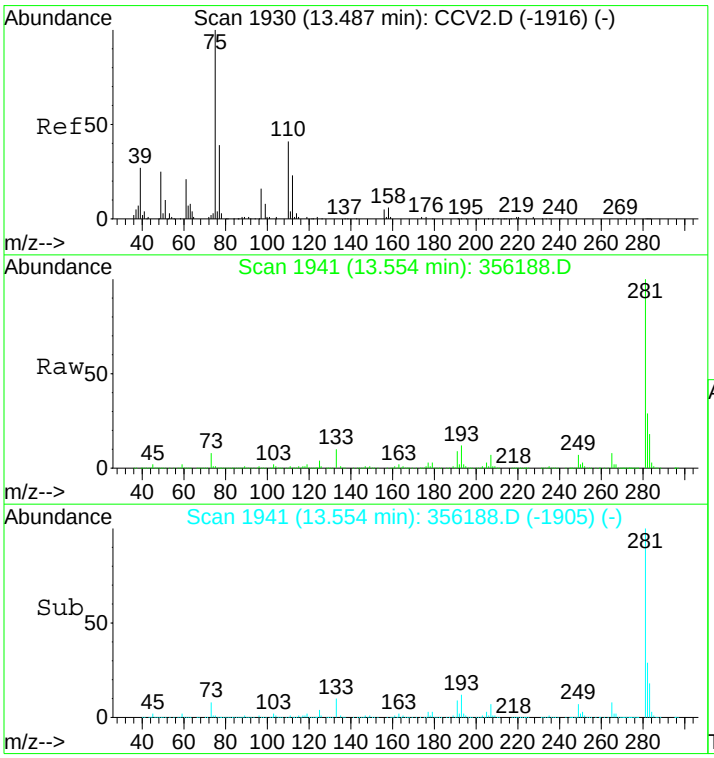


#49
trichloroete
Concen: 0.80 mg/kg
RT: 8.12 min Scan# 1047
Delta R.T. -0.01 min
Lab File: 356188.D
Acq: 13 Nov 2019 2:59

Tgt Ion: 95 Resp: 9709979

Ion	Ratio	Lower	Upper
95	100		
130	104.1	94.7	134.7
132	106.5	91.8	131.8

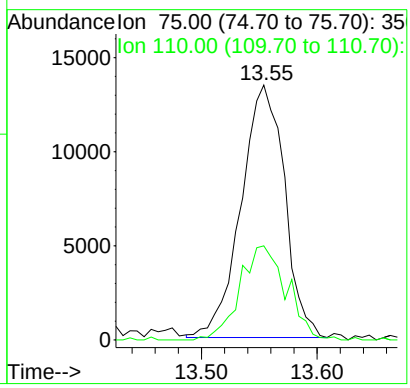




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356188.D
Acq: 13 Nov 2019 2:59

Tgt Ion: 75 Resp: 35086

Ion	Ratio	Lower	Upper
75	100		
110	39.8	5.6	45.6



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185.D Vial: 32
Acq On : 13 Nov 2019 9:38 Operator: RLD-DGS
Sample : 166498,356185, Inst : VMS4
Misc : 3.37g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 09:59:30 2019 Results File: LS111219.RES

NOT USED

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	420368	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	350852	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	197637	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	113396	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 110 %		
45) SURR12DCAd4	7.25	102	26566	0.024 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 120 %		
60) SURRd8Tolule	9.67	98	420674	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	158164	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.06	50	1702	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.67	94	1617	Below Cal #	64
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	27799	0.0198 mg/kg	83
16) Iodomethane	4.13	142	2528	0.0019 mg/kg#	44
17) Carbon Dislf	4.20	76	1856	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	8447	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	9523	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.18	59	2264	N.D.	
31) 22dichloropr	6.25	77	1271	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.63	42	1094	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185.D Vial: 32
Acq On : 13 Nov 2019 9:38 Operator: RLD-DGS
Sample : 166498,356185, Inst : VMS4
Misc : 3.37g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 09:59:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	0.00	83	0	N.D.	
40) 111trichlota	0.00	97	0	N.D.	
42) Cyclohexane	0.00	56	0	N.D.	
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	0.00	78	0	N.D.	
47) 12dichlorota	0.00	62	0	N.D.	
48) TAME	0.00	73	0	N.D.	
49) trichloroete	8.15	95	3929	0.0007 mg/kg#	85
50) methylcyclohexane	0.00	83	0	N.D.	
51) 12dicloropra	0.00	63	0	N.D.	
52) 23dicl1propene	0.00	75	0	N.D.	
53) Dibromometha	0.00	93	0	N.D.	
54) methylmethacrylate	0.00	69	0	N.D.	
55) 14dioxane	0.00	88	0	N.D.	
56) Bromodiclrma	0.00	83	0	N.D.	
57) 2Nitropropane	0.00	43	0	N.D.	
58) c13dicloproe	0.00	75	0	N.D.	
59) 4Meth2Pentan	9.56	43	1191	N.D.	
61) Toluene	9.75	92	2082	N.D.	
62) t13Dicloprop	0.00	75	0	N.D.	
63) ethylmethacrylate	0.00	69	0	N.D.	
64) 112Triclotha	0.00	83	0	N.D.	
65) Tetrachlorte	0.00	166	0	N.D.	
66) 13Diclorpropa	0.00	76	0	N.D.	
68) 2Hexanone	0.00	43	0	N.D.	
69) Clorodibrmta	0.00	129	0	N.D.	
70) 12Dibrometha	0.00	107	0	N.D.	
71) Chlorobenzen	0.00	112	0	N.D.	
72) 1Clhexane	0.00	91	0	N.D.	
73) 1112Tetclota	0.00	131	0	N.D.	
74) Ethylbenzene	0.00	91	0	N.D.	
75) m p-Xylene	0.00	106	0	N.D.	
76) o-Xylene	0.00	106	0	N.D.	
77) Styrene	0.00	104	0	N.D.	
78) Bromoform	0.00	173	0	N.D.	
79) Isopropylben	0.00	105	0	N.D.	
81) cyclohexanone	0.00	55	0	N.D.	
83) Bromobenzene	0.00	156	0	N.D.	
84) 1122Tetrclta	0.00	83	0	N.D.	
85) 123Triclproa	13.43	75	1225	N.D.	
86) 14dichloro2butene	0.00	53	0	N.D.	
87) n-Propylbenz	0.00	91	0	N.D.	
88) 2chlorotolue	0.00	91	0	N.D.	
89) 4chlorotolue	0.00	91	0	N.D.	
90) 135Trimebenz	0.00	105	0	N.D.	
91) tbutylbenzen	0.00	119	0	N.D.	
92) 124Trimetben	14.41	105	1322	N.D.	
93) sbutylbenzen	0.00	105	0	N.D.	
94) 13Diclorbenz	0.00	146	0	N.D.	
95) pIsopropylto	0.00	119	0	N.D.	
96) 14dichlorobe	0.00	146	0	N.D.	
97) 12dichlorobe	0.00	146	0	N.D.	
98) nButylbenzen	0.00	91	0	N.D.	
99) 12dibromo3cl	0.00	157	0	N.D.	
100) 135Trichlorobenzene	0.00	180	0	N.D.	
101) 124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185.D Vial: 32
Acq On : 13 Nov 2019 9:38 Operator: RLD-DGS
Sample : 166498,356185, Inst : VMS4
Misc : 3.37g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 09:59:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.02	128	4069	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

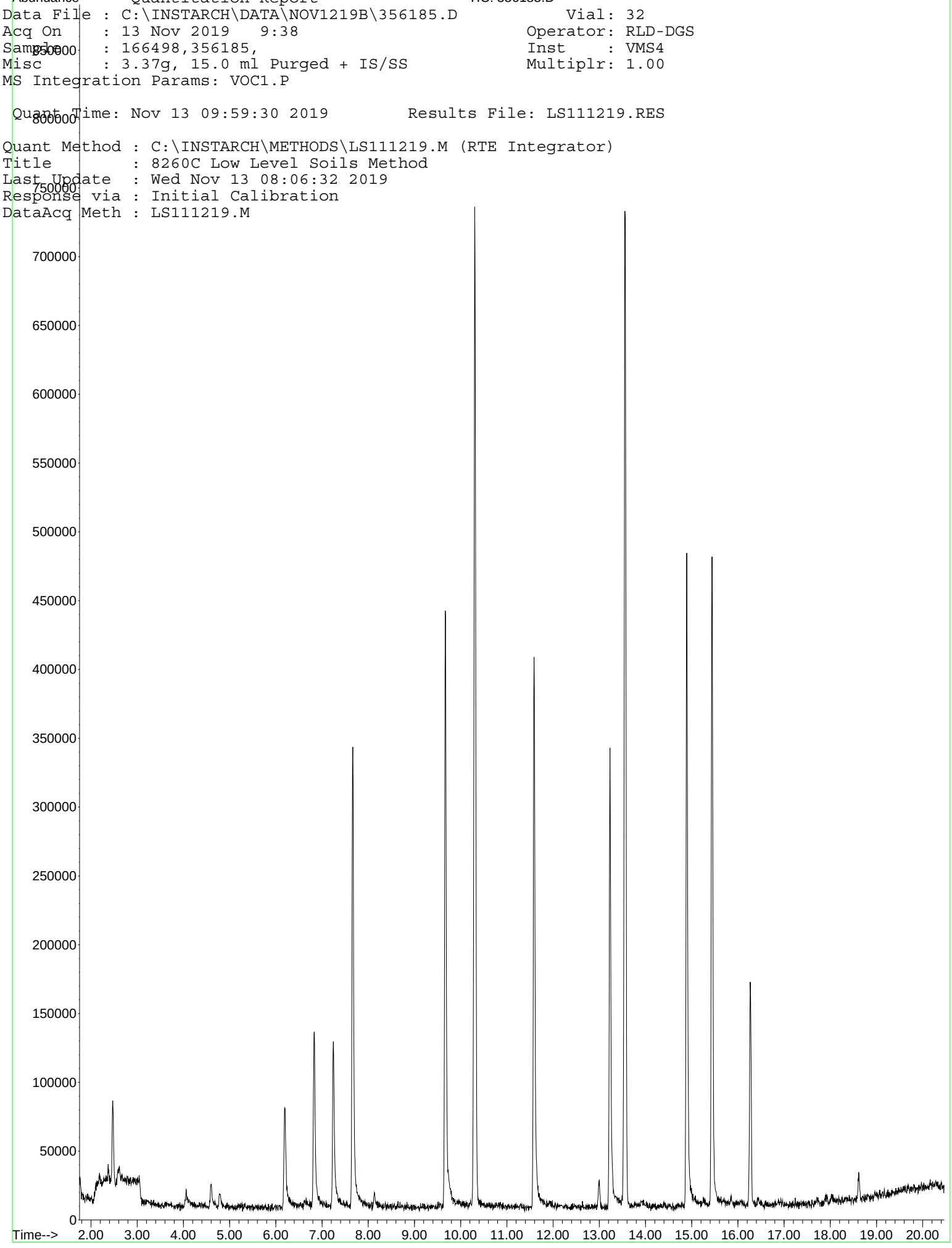
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356185.D

Data File : C:\INSTARCH\DATA\NOV1219B\356185.D Vial: 32
Acq On : 13 Nov 2019 9:38 Operator: RLD-DGS
Sample : 166498,356185, Inst : VMS4
Misc : 3.37g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 09:59:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356189.D Vial: 33
Acq On : 13 Nov 2019 10:07 Operator: RLD-DGS
Sample : 166498,356189, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 10:29:11 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	779228	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	613373	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	329608	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	201771	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	45752	0.023 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %		
60) SURRd8Tolule	9.67	98	773915	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	265169	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.06	50	1853	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	1559	Below Cal #	68
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	1073	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	16982	N.D.	
16) Iodomethane	4.13	142	1780	0.0012 mg/kg#	44
17) Carbon Dislf	4.20	76	2198	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	18280	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	9142	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	2311	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	2404	N.D.	
31) 22dichloropr	6.20	77	5162	N.D.	
32) c12dichlorte	6.24	96	48077	0.0042 mg/kg	98
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356189.D Vial: 33
Acq On : 13 Nov 2019 10:07 Operator: RLD-DGS
Sample : 166498,356189, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 10:29:11 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	3026	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	1997800	0.1927 mg/kg	96
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	5141	N.D.	
61)	Toluene	9.76	92	3424	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.32	83	1167	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.59	91	1155	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.56	75	14273	0.0011 mg/kg#	35
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1448	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.46	91	1534	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356189.D Vial: 33
Acq On : 13 Nov 2019 10:07 Operator: RLD-DGS
Sample : 166498,356189, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 10:29:11 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	3999	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

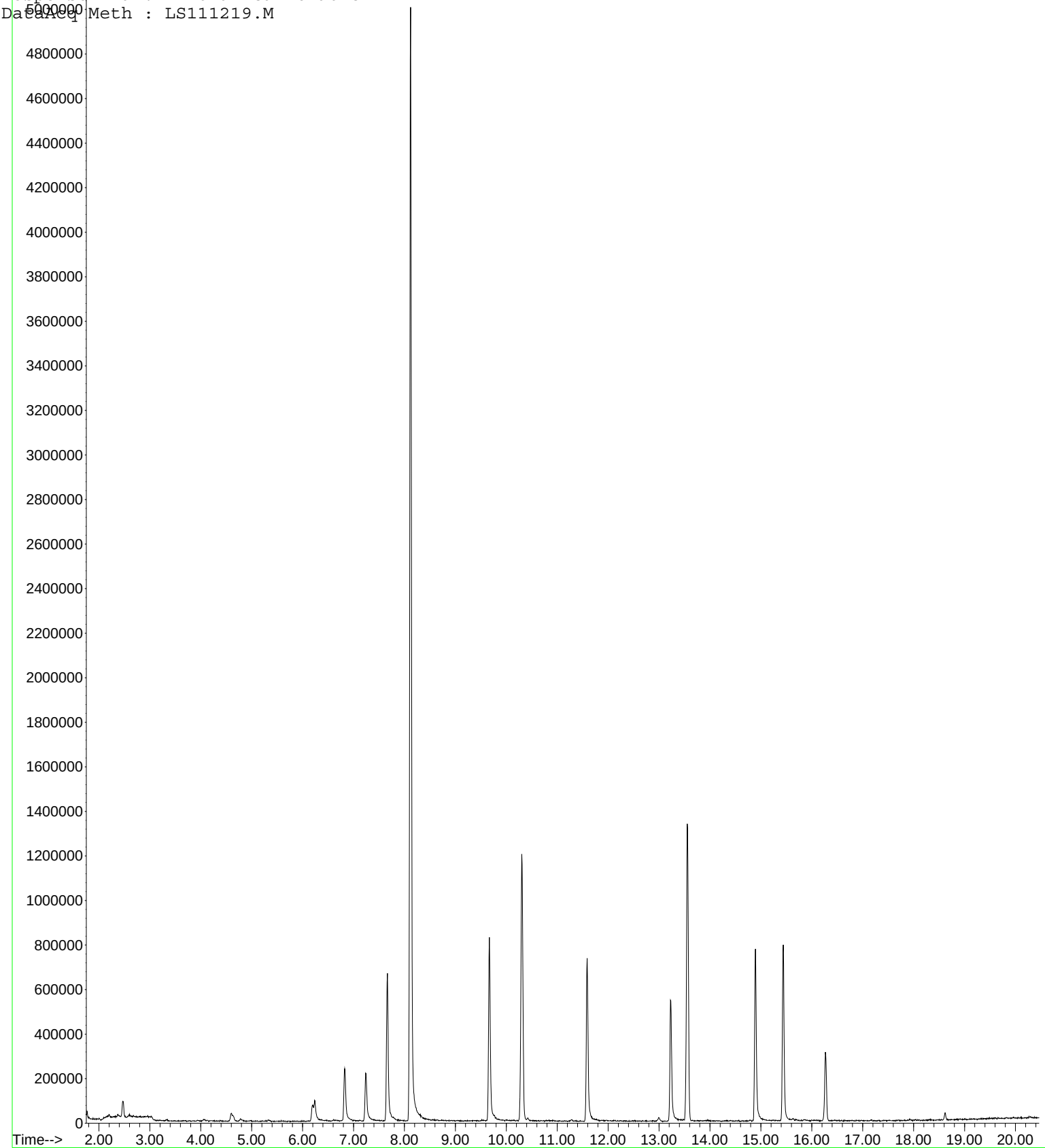
(#) = qualifier out of range (m) = manual integration

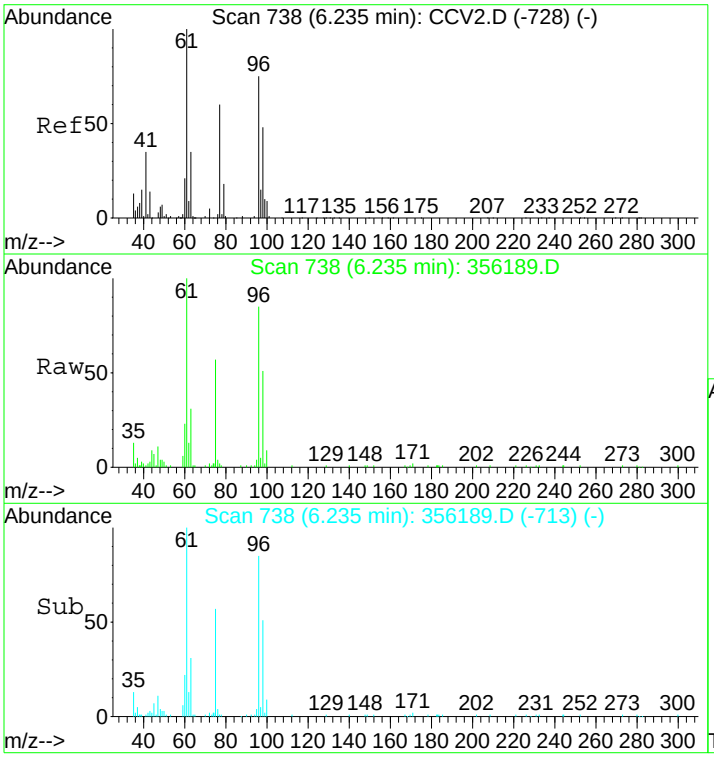
Abundance Quantitation Report TIC: 356189.D

Data File : C:\INSTARCH\DATA\NOV1219B\356189.D Vial: 33
Acq On : 13 Nov 2019 10:07 Operator: RLD-DGS
Sample : 166498,356189, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 10:29:11 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

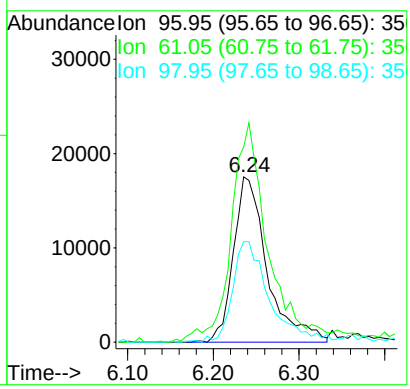


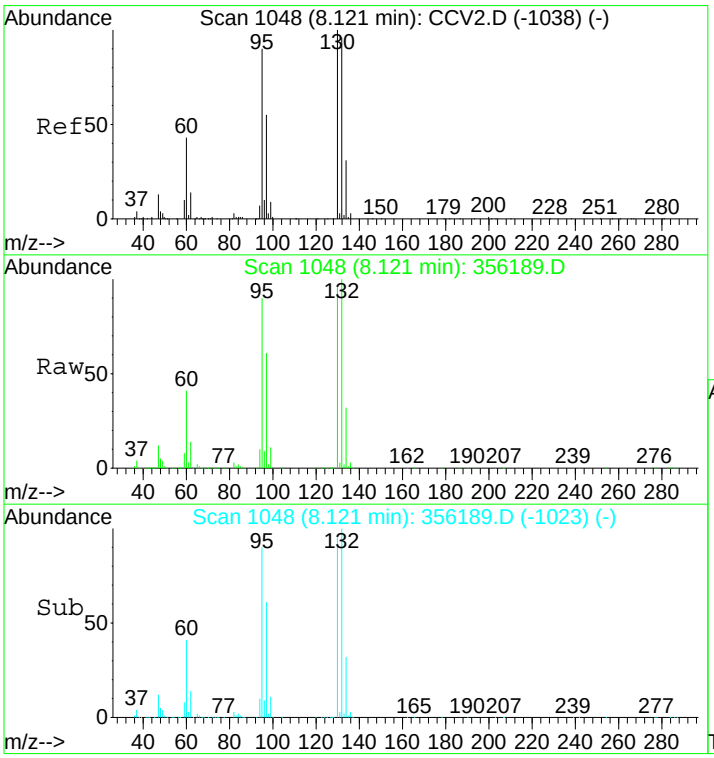


#32
c12dichlorte
Concen: 0.00 mg/kg
RT: 6.24 min Scan# 738
Delta R.T. 0.00 min
Lab File: 356189.D
Acq: 13 Nov 2019 10:07

Tgt Ion: 96 Resp: 48077

Ion	Ratio	Lower	Upper
96	100		
61	146.6	128.4	168.4
98	66.5	44.3	84.3

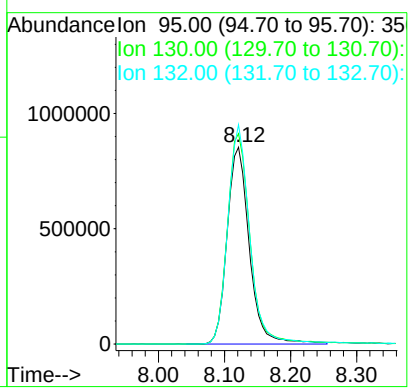


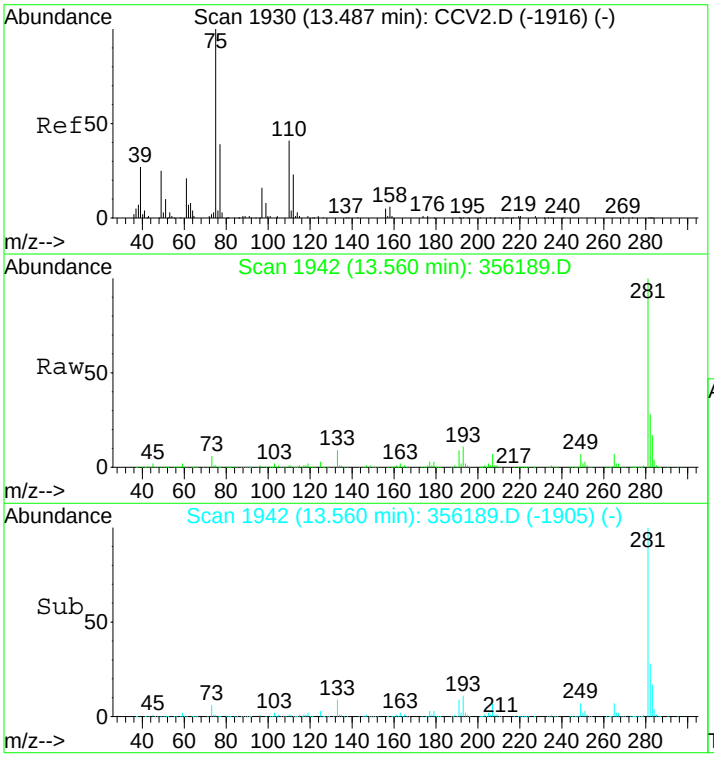


#49
trichloroete
Concen: 0.19 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356189.D
Acq: 13 Nov 2019 10:07

Tgt Ion: 95 Resp: 1997800

Ion	Ratio	Lower	Upper
95	100		
130	109.0	94.7	134.7
132	109.5	91.8	131.8

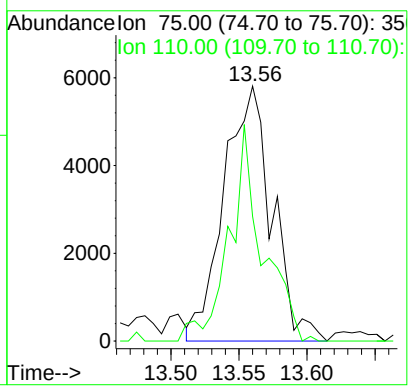




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.56 min Scan# 1942
Delta R.T. 0.07 min
Lab File: 356189.D
Acq: 13 Nov 2019 10:07

Tgt Ion: 75 Resp: 14273

Ion	Ratio	Lower	Upper
75	100		
110	58.4	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356191.D Vial: 34
Acq On : 13 Nov 2019 10:36 Operator: RLD-DGS
Sample : 166498,356191, Inst : VMS4
Misc : 5.70g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 10:57:34 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	898066	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	700019	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	396860	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	227594	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	49525	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	883820	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	316838	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.05	50	2621	N.D.	
4) VinylChlorid	2.21	62	57489	0.0043 mg/kg	96
5) Bromomethane	2.69	94	2009	Below Cal #	77
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	29100	0.0028 mg/kg	98
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	15039	N.D.	
16) Iodomethane	4.12	142	2081	0.0012 mg/kg#	44
17) Carbon Dislf	4.20	76	2352	N.D.	
18) allylchloride	4.50	41	1112	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	23354	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.98	96	3833	N.D.	
23) tbutylalcohol	4.80	59	14087	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	7868	N.D.	
26) 11dichlorota	5.49	63	3383	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.20	77	6184	N.D.	
32) c12dichlorte	6.23	96	1094559	0.0833 mg/kg#	89
33) 2Butanone	6.24	72	8380	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.66	42	1081	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356191.D Vial: 34
Acq On : 13 Nov 2019 10:36 Operator: RLD-DGS
Sample : 166498,356191, Inst : VMS4
Misc : 5.70g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 10:57:34 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.65	83	2316	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	8799	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	19861098	1.6624 mg/kg	90
50)	methylcyclohexane	8.26	83	1989	N.D.	
51)	12dicloropra	8.28	63	1372	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.54	43	4181	N.D.	
61)	Toluene	9.76	92	26875	0.0009 mg/kg	99
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.31	83	1010	N.D.	
65)	Tetrachlorte	10.47	166	2372	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.55	43	1271	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1897	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.80	91	1245	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	13.55	83	1064	N.D.	
85)	123Triclproa	13.57	75	15913	0.0010 mg/kg#	40
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	0.00	105	0	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.45	91	2029	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356191.D Vial: 34
Acq On : 13 Nov 2019 10:36 Operator: RLD-DGS
Sample : 166498,356191, Inst : VMS4
Misc : 5.70g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 10:57:34 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	4077	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

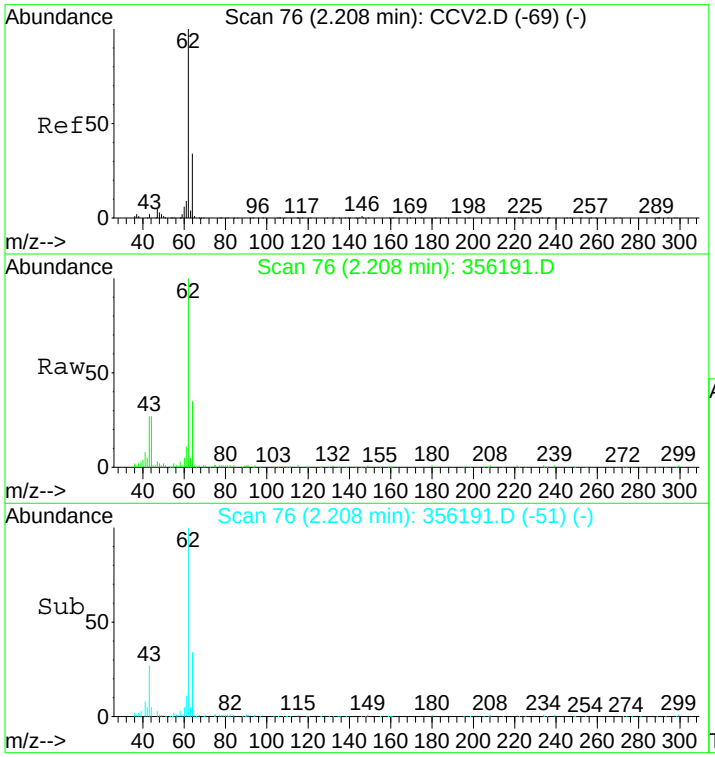
Abundance Quantitation Report TIC: 356191.D

Data File : C:\INSTARCH\DATA\NOV1219B\356191.D Vial: 34
Acq On : 13 Nov 2019 10:36 Operator: RLD-DGS
Sample : 166498,356191, Inst : VMS4
Misc : 5.70g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 10:57:34 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

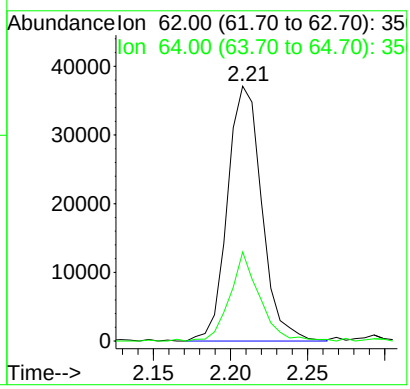


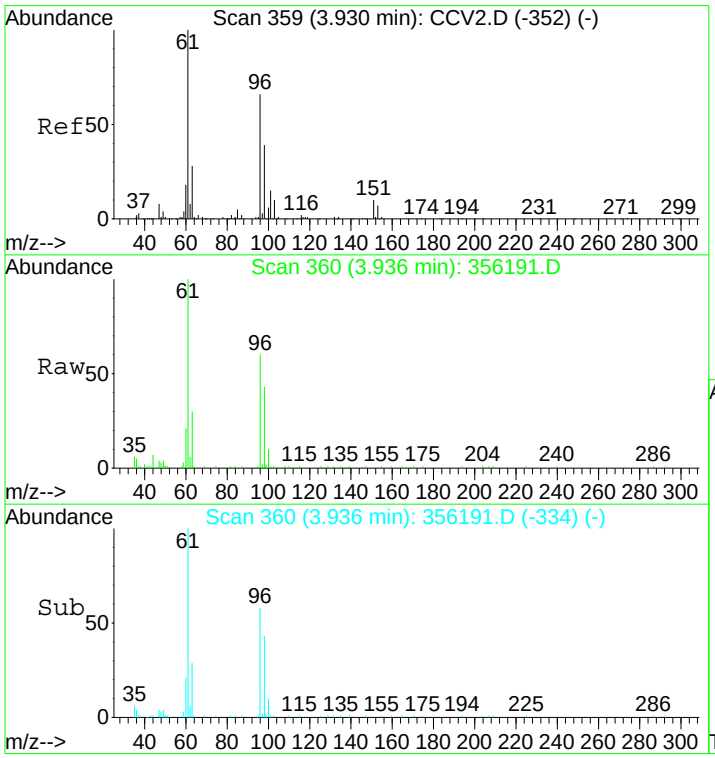


#4
VinylChlorid
Concen: 0.00 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. -0.00 min
Lab File: 356191.D
Acq: 13 Nov 2019 10:36

Tgt Ion: 62 Resp: 57489

Ion	Ratio	Lower	Upper
62	100		
64	30.4	12.9	52.9

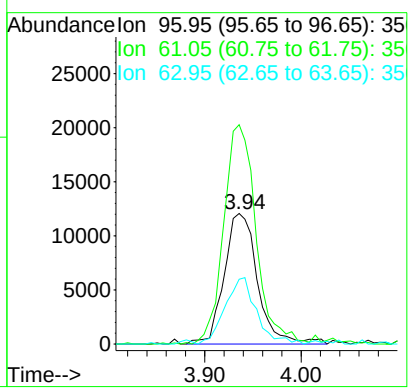


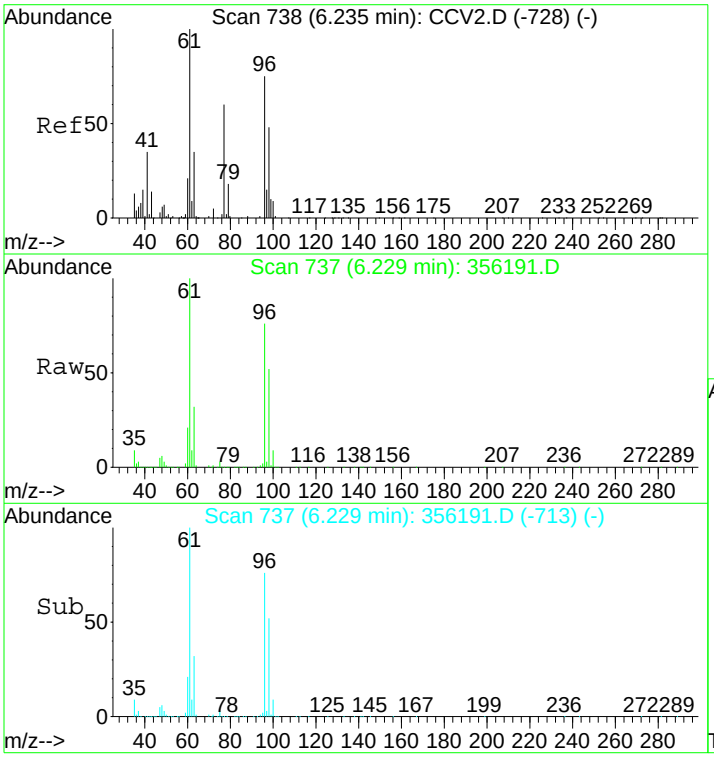


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356191.D
Acq: 13 Nov 2019 10:36

Tgt Ion: 96 Resp: 29100

Ion	Ratio	Lower	Upper
96	100		
61	162.0	139.7	179.7
63	47.6	29.4	69.4

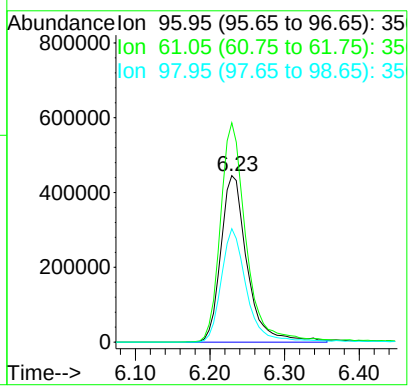


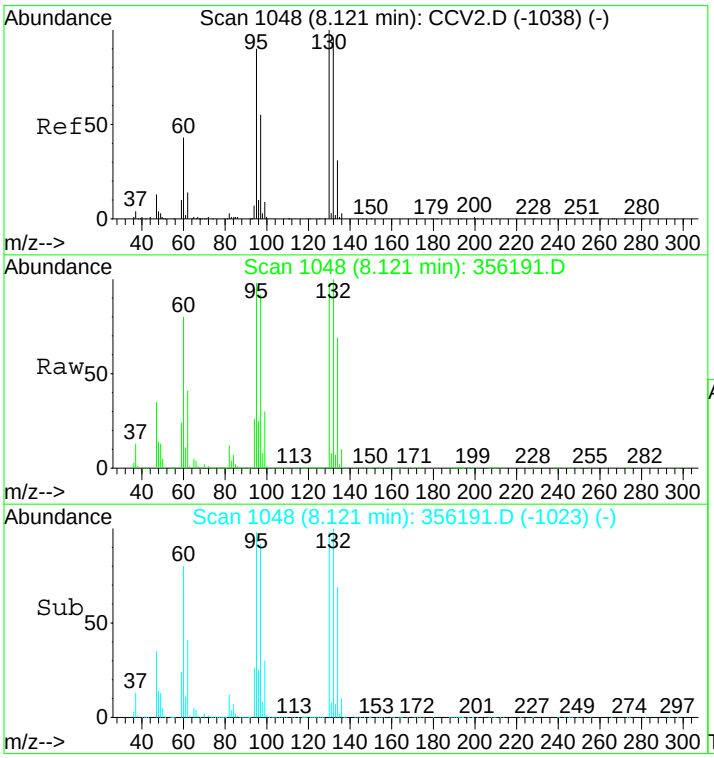


#32
c12dichlorte
Concen: 0.08 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356191.D
Acq: 13 Nov 2019 10:36

Tgt Ion: 96 Resp: 1094559

Ion	Ratio	Lower	Upper
96	100		
61	128.3	128.4	168.4#
98	65.2	44.3	84.3

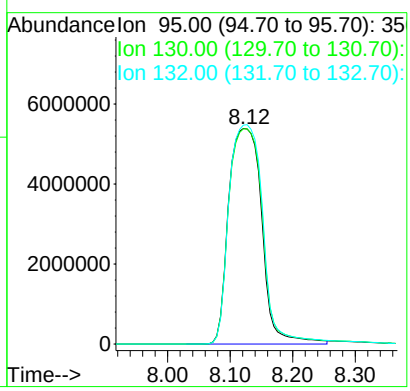


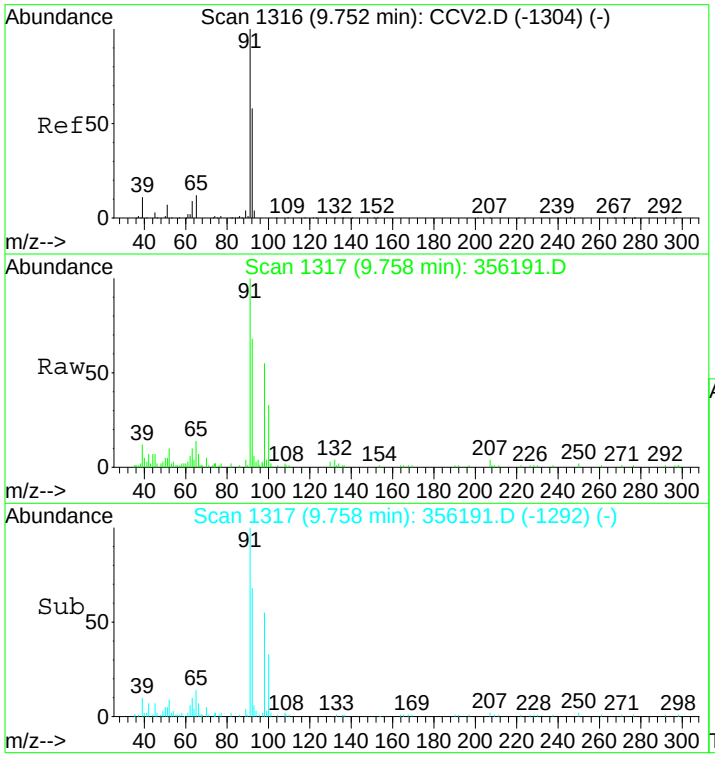


#49
trichloroete
Concen: 1.66 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356191.D
Acq: 13 Nov 2019 10:36

Tgt Ion: 95 Resp:19861098

Ion	Ratio	Lower	Upper
95	100		
130	101.5	94.7	134.7
132	103.4	91.8	131.8

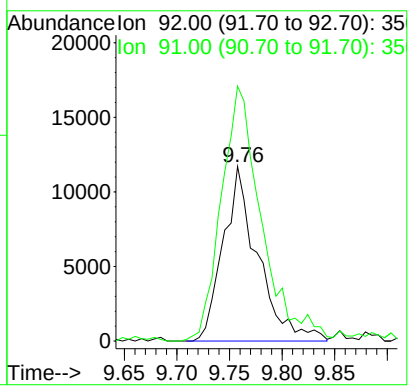


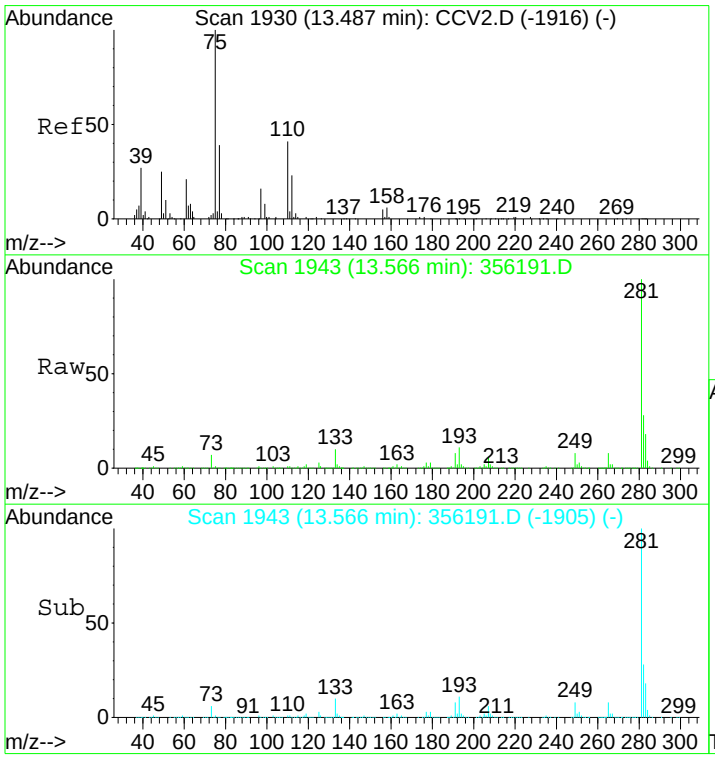


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.76 min Scan# 1317
Delta R.T. -0.00 min
Lab File: 356191.D
Acq: 13 Nov 2019 10:36

Tgt Ion: 92 Resp: 26875

Ion	Ratio	Lower	Upper
92	100		
91	168.8	148.0	188.0

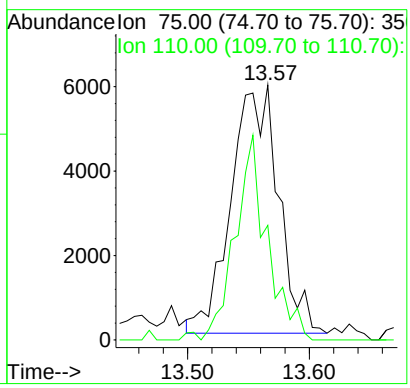




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.57 min Scan# 1943
Delta R.T. 0.08 min
Lab File: 356191.D
Acq: 13 Nov 2019 10:36

Tgt Ion: 75 Resp: 15913

Ion	Ratio	Lower	Upper
75	100		
110	56.1	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356192.D Vial: 35
Acq On : 13 Nov 2019 11:05 Operator: RLD-DGS
Sample : 166498,356192, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 11:26:31 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	988915	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	760327	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	411744	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	244838	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %		
45) SURR12DCAd4	7.25	102	51292	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %		
60) SURRd8Tolule	9.67	98	972745	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	334143	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.07	50	2421	N.D.	
4) VinylChlorid	2.21	62	17624	0.0012 mg/kg	97
5) Bromomethane	2.67	94	1021	Below Cal #	1
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	7085	0.0006 mg/kg#	79
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.07	43	11478	N.D.	
16) Iodomethane	4.13	142	1227	0.0010 mg/kg#	44
17) Carbon Dislf	4.20	76	2968	N.D.	
18) allylchloride	4.50	41	1914	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	33262	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.97	96	3007	N.D.	
23) tbutylalcohol	4.79	59	13432	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	11658	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.20	77	5038	N.D.	
32) c12dichlorte	6.23	96	725702	0.0502 mg/kg	88
33) 2Butanone	6.24	72	4545	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.63	42	1349	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356192.D Vial: 35
Acq On : 13 Nov 2019 11:05 Operator: RLD-DGS
Sample : 166498,356192, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 11:26:31 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.31	78	11319	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	12410745	0.9433 mg/kg	92
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.09	43	1167	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.52	43	5878	N.D.	
61)	Toluene	9.76	92	25304	0.0007 mg/kg	98
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.31	83	1139	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.60	91	1263	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.79	91	1544	N.D.	
75)	m p-Xylene	11.95	106	1393	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.46	75	1772	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1669	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	14.92	146	1143	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.43	91	1856	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356192.D Vial: 35
Acq On : 13 Nov 2019 11:05 Operator: RLD-DGS
Sample : 166498,356192, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 11:26:31 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	3087	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

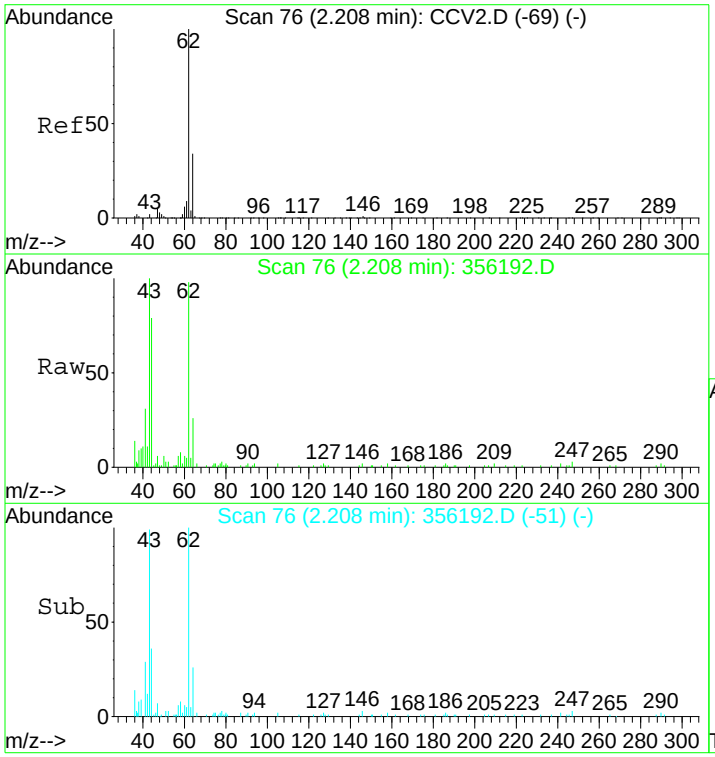
Abundance Quantitation Report TIC: 356192.D

Data File : C:\INSTARCH\DATA\NOV1219B\356192.D Vial: 35
Acq On : 13 Nov 2019 11:05 Operator: RLD-DGS
Sample : 166498,356192, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 11:26:31 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

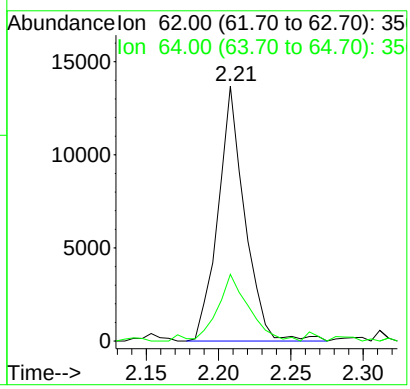


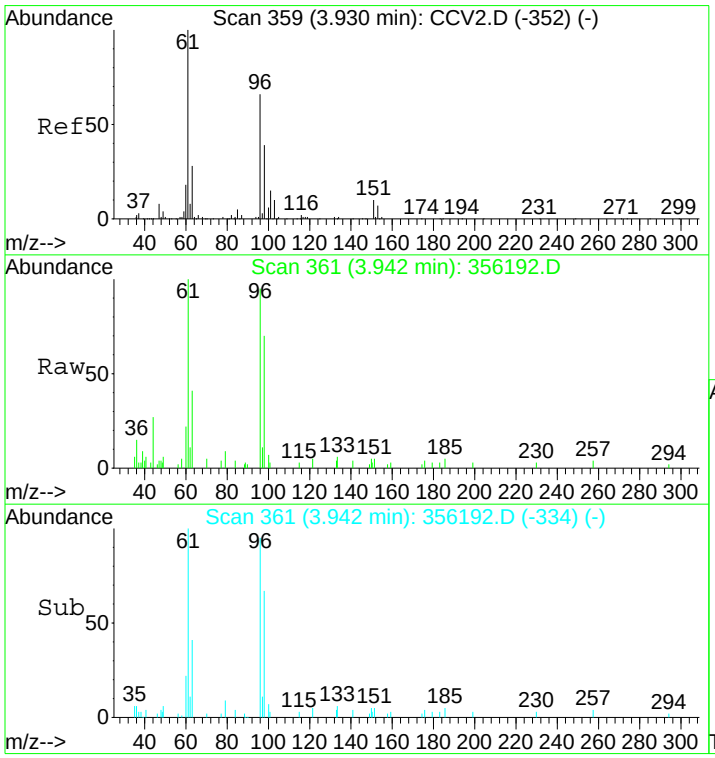


#4
VinylChlorid
Concen: 0.00 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. 0.00 min
Lab File: 356192.D
Acq: 13 Nov 2019 11:05

Tgt Ion: 62 Resp: 17624

Ion	Ratio	Lower	Upper
62	100		
64	31.2	12.9	52.9

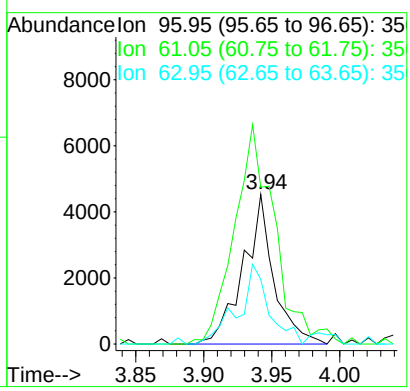


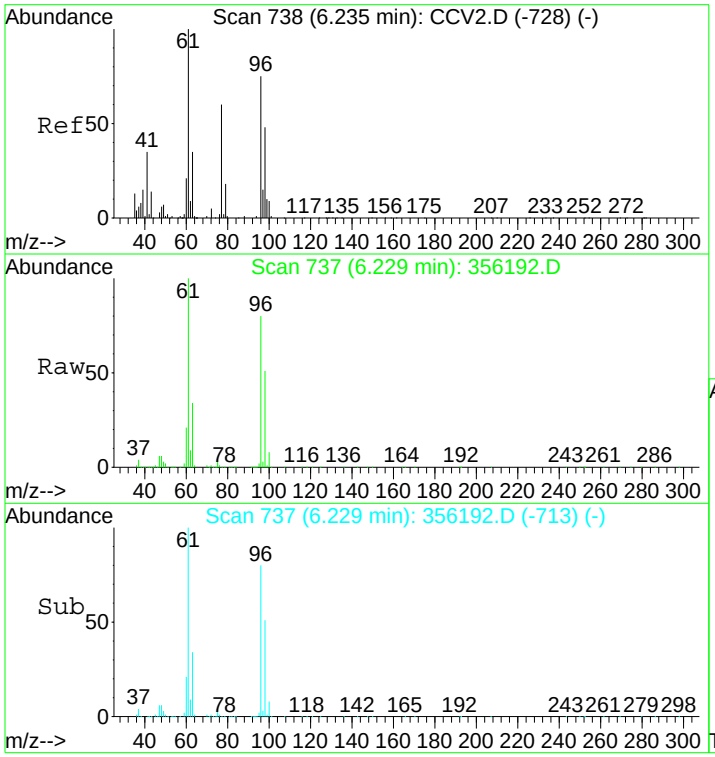


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 361
Delta R.T. 0.01 min
Lab File: 356192.D
Acq: 13 Nov 2019 11:05

Tgt Ion: 96 Resp: 7085

Ion	Ratio	Lower	Upper
96	100		
61	193.2	139.7	179.7#
63	53.9	29.4	69.4

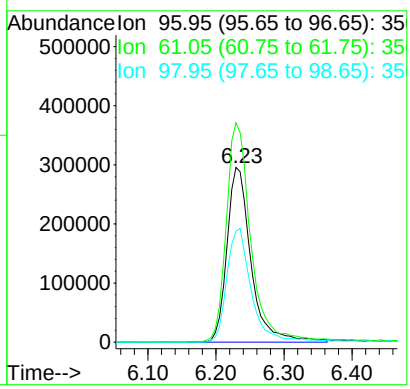


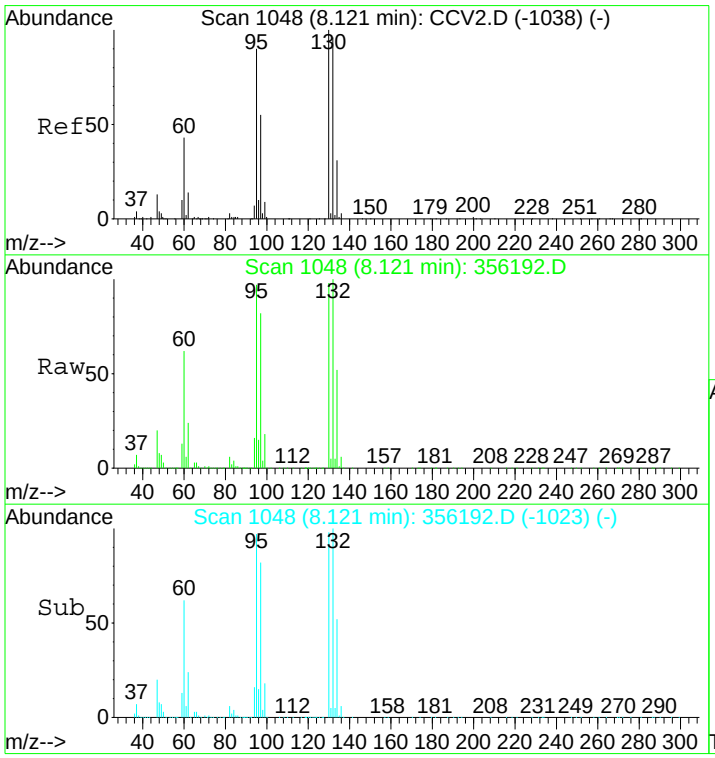


#32
c12dichlorte
Concen: 0.05 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356192.D
Acq: 13 Nov 2019 11:05

Tgt Ion: 96 Resp: 725702

Ion	Ratio	Lower	Upper
96	100		
61	128.5	128.4	168.4
98	66.0	44.3	84.3

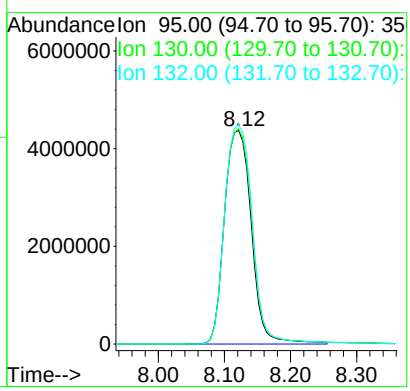


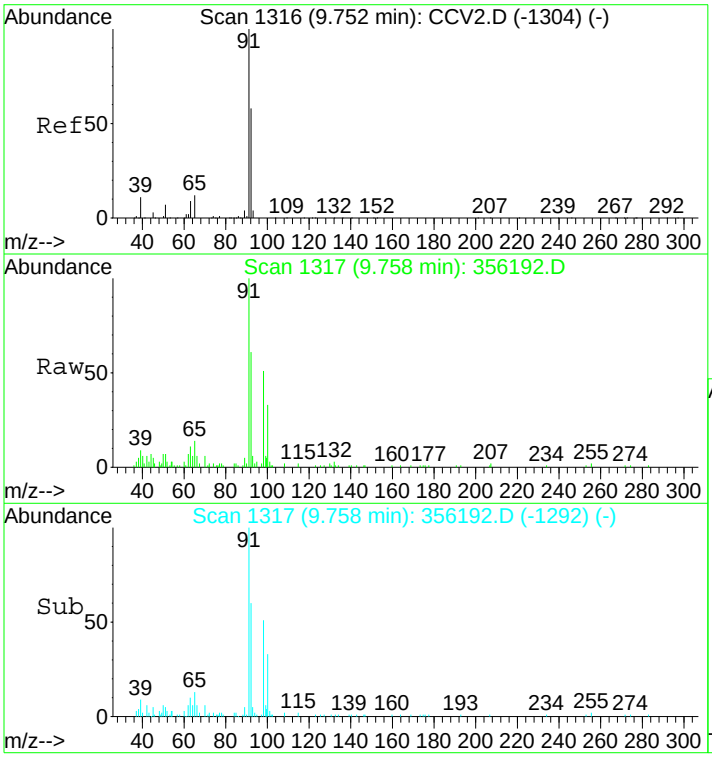


#49
trichloroete
Concen: 0.94 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356192.D
Acq: 13 Nov 2019 11:05

Tgt Ion: 95 Resp:12410745

Ion	Ratio	Lower	Upper
95	100		
130	103.2	94.7	134.7
132	105.1	91.8	131.8

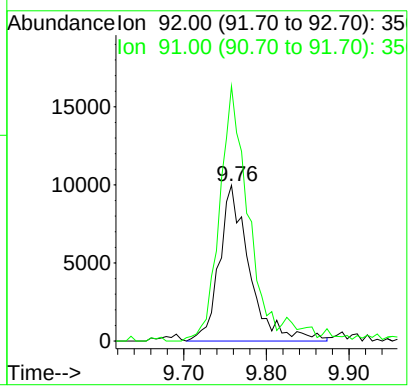




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.76 min Scan# 1317
Delta R.T. 0.00 min
Lab File: 356192.D
Acq: 13 Nov 2019 11:05

Tgt Ion: 92 Resp: 25304

Ion	Ratio	Lower	Upper
92	100		
91	165.3	148.0	188.0



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356193.D Vial: 36
Acq On : 13 Nov 2019 11:35 Operator: RLD-DGS
Sample : 166498,356193, Inst : VMS4
Misc : 5.39g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 11:55:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	886348	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	686711	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	372930	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	229457	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	51522	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	858823	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %		
82) SURR4BrFBenz	13.23	95	308610	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	1.82	85	2143	N.D.	
3) Chloromethan	2.05	50	1533	N.D.	
4) VinylChlorid	2.21	62	11889	0.0009 mg/kg	98
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	4481	0.0004 mg/kg	98
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	11216	N.D.	
16) Iodomethane	4.12	142	1351	0.0010 mg/kg#	44
17) Carbon Dislf	4.20	76	2789	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	22997	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.96	96	3221	N.D.	
23) tbutylalcohol	4.79	59	10761	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	11557	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.20	77	3892	N.D.	
32) c12dichlorte	6.23	96	578724	0.0446 mg/kg	89
33) 2Butanone	6.22	72	4484	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.64	42	1593	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356193.D Vial: 36
Acq On : 13 Nov 2019 11:35 Operator: RLD-DGS
Sample : 166498,356193, Inst : VMS4
Misc : 5.39g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 11:55:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.64	83	1325	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	24584	0.0005 mg/kg#	78
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	19358090	1.6417 mg/kg	90
50)	methylcyclohexane	8.25	83	4349	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.58	43	1887	N.D.	
61)	Toluene	9.76	92	13236	0.0004 mg/kg	98
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.30	83	2560	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.52	43	1223	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.60	91	1236	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.79	91	1019	N.D.	
75)	m p-Xylene	11.96	106	1446	N.D.	
76)	o-Xylene	12.50	106	1185	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.24	55	1526	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	21632	0.0014 mg/kg	67
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.56	91	1449	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1485	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.45	91	1414	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356193.D Vial: 36
Acq On : 13 Nov 2019 11:35 Operator: RLD-DGS
Sample : 166498,356193, Inst : VMS4
Misc : 5.39g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 11:55:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	2379	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

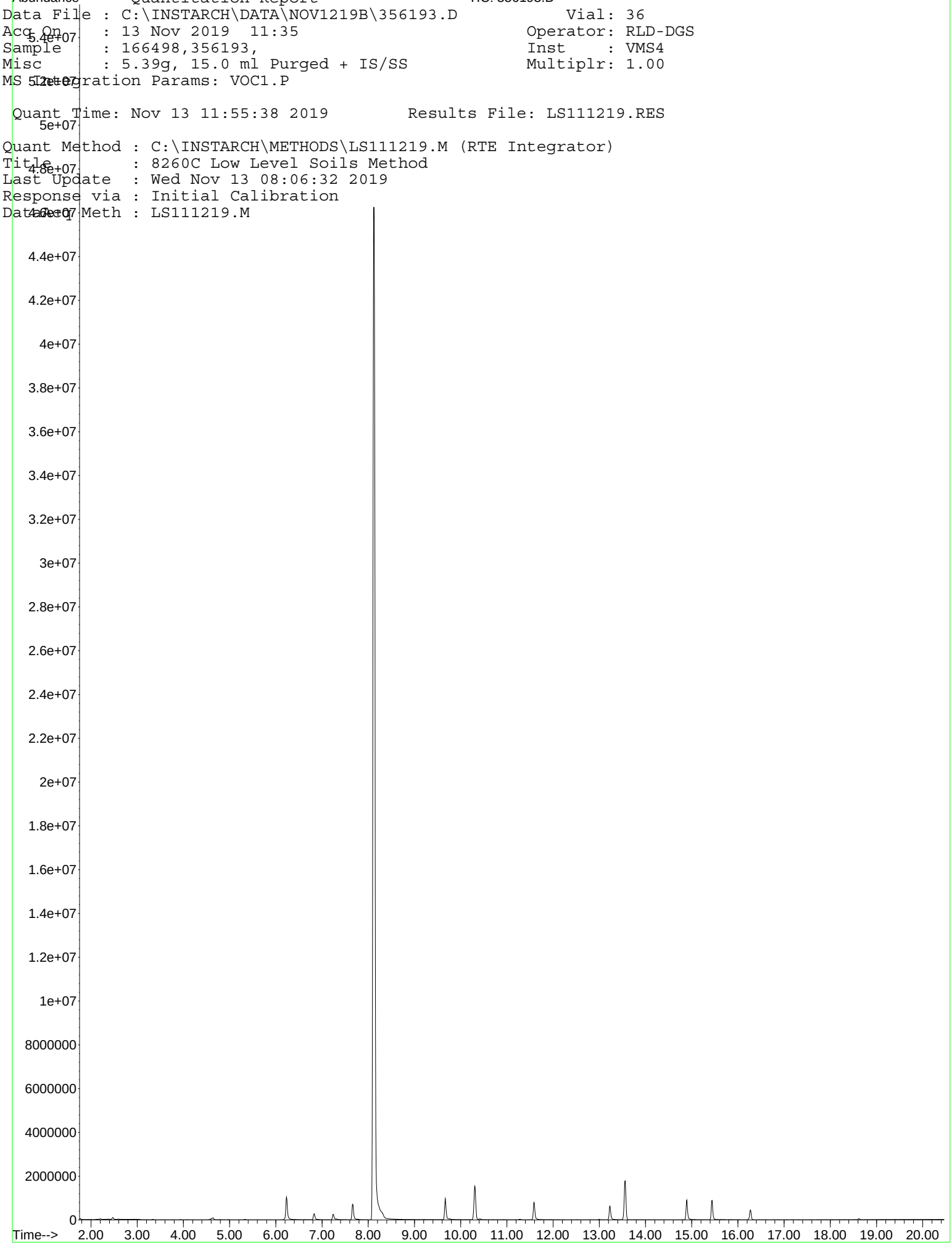
(#) = qualifier out of range (m) = manual integration

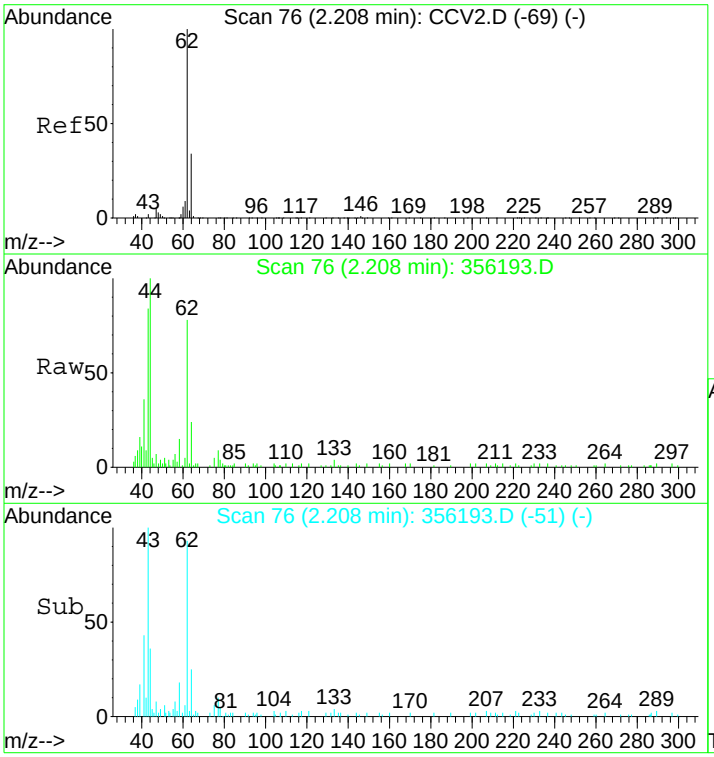
Abundance Quantitation Report TIC: 356193.D

Data File : C:\INSTARCH\DATA\NOV1219B\356193.D Vial: 36
Acq On : 13 Nov 2019 11:35 Operator: RLD-DGS
Sample : 166498,356193, Inst : VMS4
Misc : 5.39g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 11:55:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
Data Meth : LS111219.M

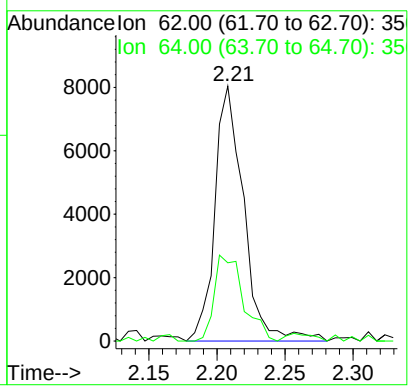


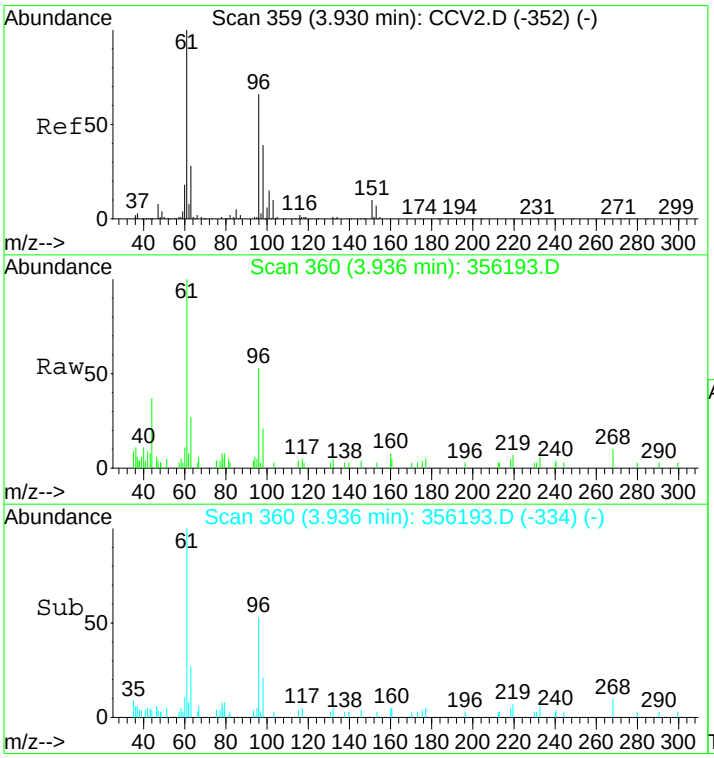


#4
VinylChlorid
Concen: 0.00 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. -0.00 min
Lab File: 356193.D
Acq: 13 Nov 2019 11:35

Tgt Ion: 62 Resp: 11889

Ion	Ratio	Lower	Upper
62	100		
64	33.9	12.9	52.9

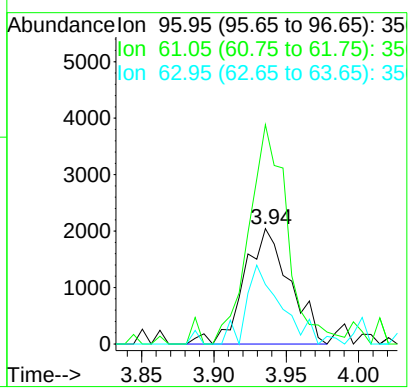


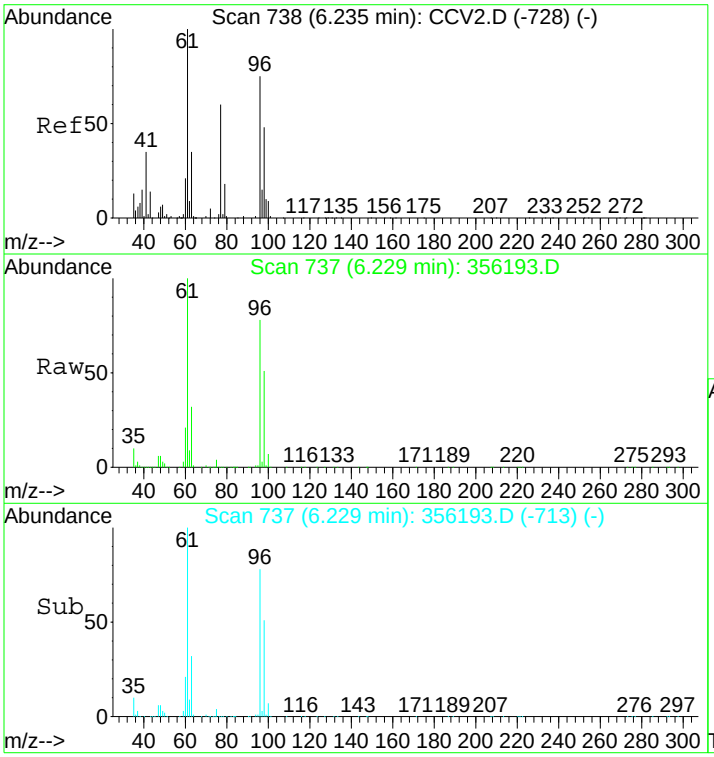


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356193.D
Acq: 13 Nov 2019 11:35

Tgt Ion: 96 Resp: 4481

Ion	Ratio	Lower	Upper
96	100		
61	160.9	139.7	179.7
63	53.7	29.4	69.4

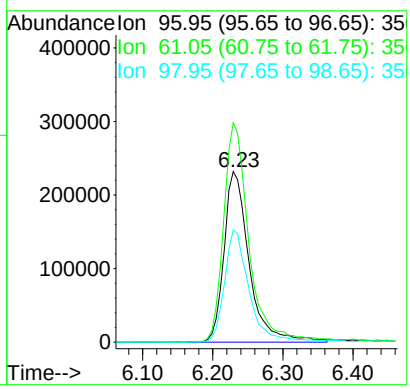


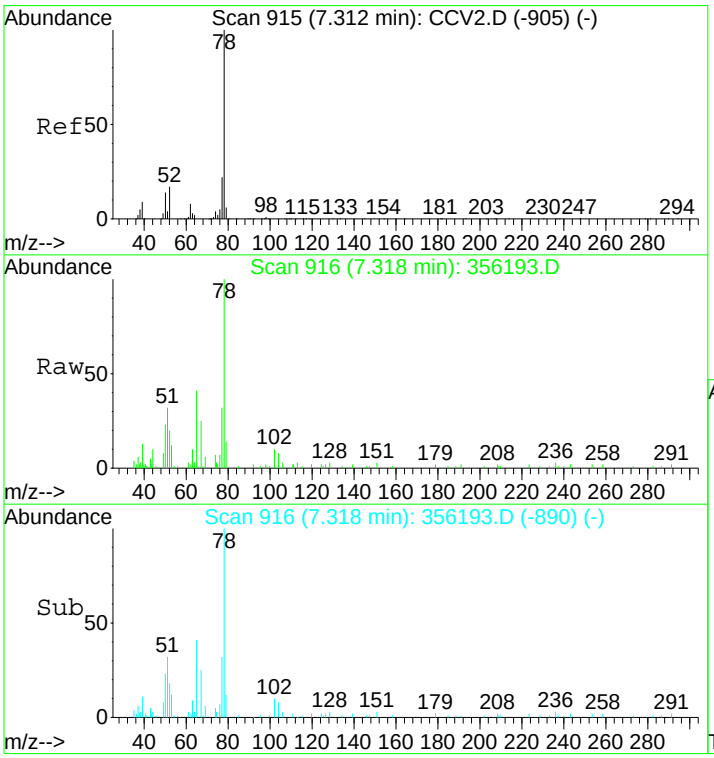


#32
c12dichlorte
Concen: 0.04 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356193.D
Acq: 13 Nov 2019 11:35

Tgt Ion: 96 Resp: 578724

Ion	Ratio	Lower	Upper
96	100		
61	129.2	128.4	168.4
98	64.0	44.3	84.3

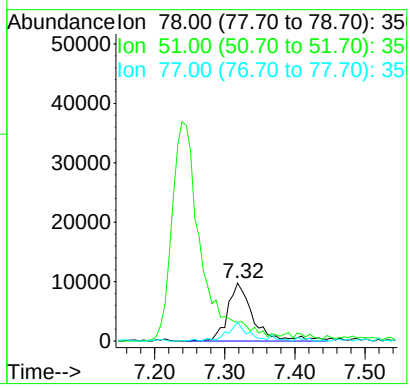


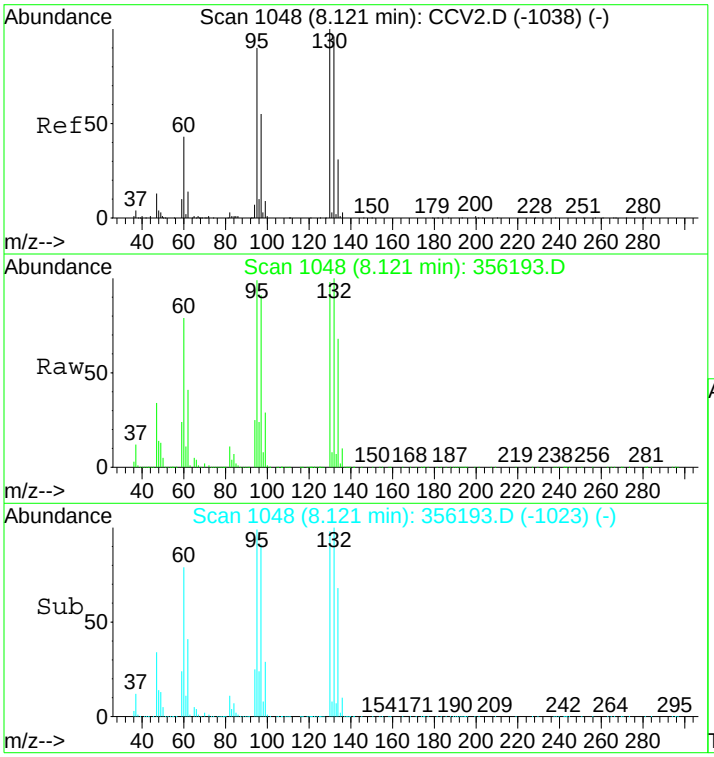


#46
Benzene
Concen: 0.00 mg/kg
RT: 7.32 min Scan# 916
Delta R.T. 0.01 min
Lab File: 356193.D
Acq: 13 Nov 2019 11:35

Tgt Ion: 78 Resp: 24584

Ion	Ratio	Lower	Upper
78	100		
51	0.0	0.0	39.4
77	19.7	1.6	41.6

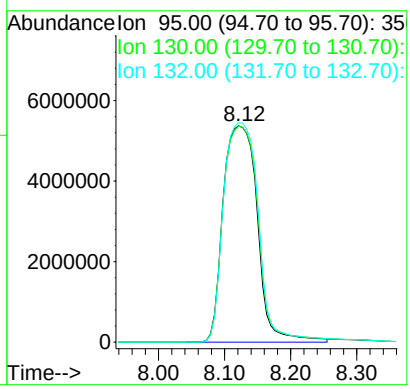


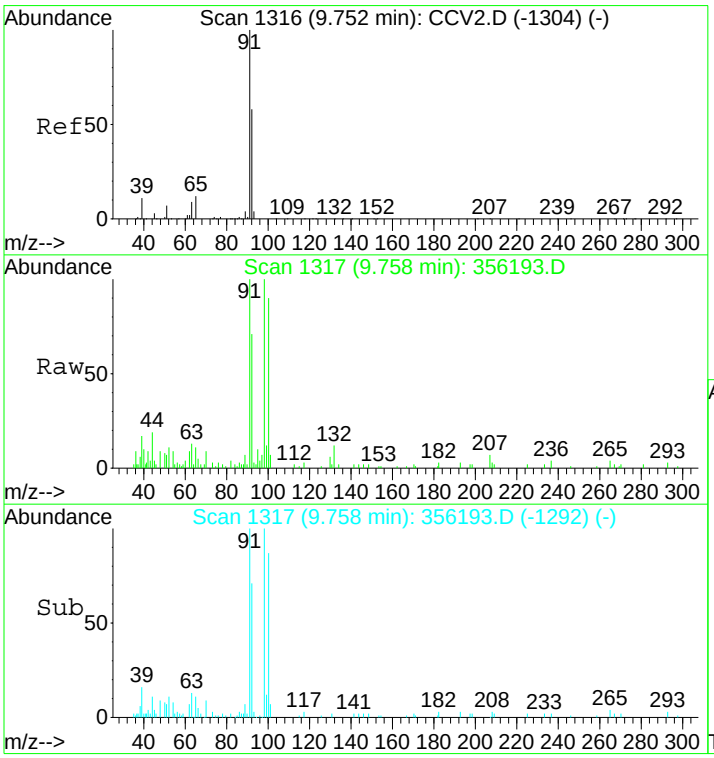


#49
trichloroete
Concen: 1.64 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356193.D
Acq: 13 Nov 2019 11:35

Tgt Ion: 95 Resp:19358090

Ion	Ratio	Lower	Upper
95	100		
130	101.4	94.7	134.7
132	103.4	91.8	131.8

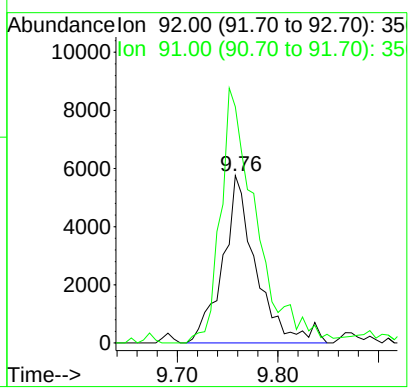


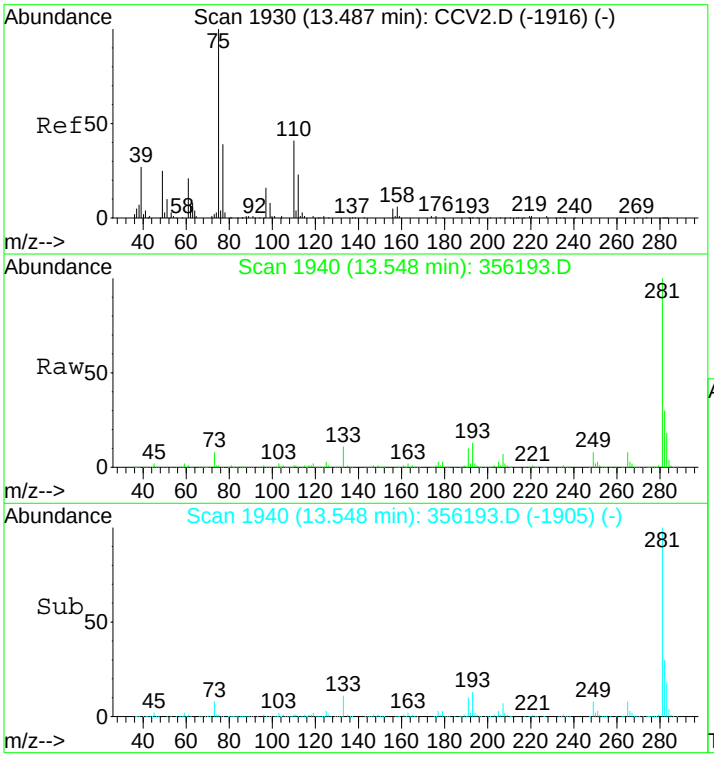


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.76 min Scan# 1317
Delta R.T. -0.00 min
Lab File: 356193.D
Acq: 13 Nov 2019 11:35

Tgt Ion: 92 Resp: 13236

Ion	Ratio	Lower	Upper
92	100		
91	165.9	148.0	188.0

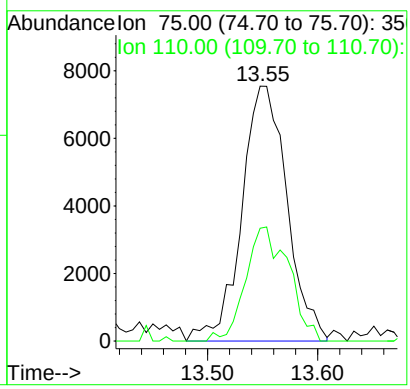




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1940
Delta R.T. 0.06 min
Lab File: 356193.D
Acq: 13 Nov 2019 11:35

Tgt Ion: 75 Resp: 21632

Ion	Ratio	Lower	Upper
75	100		
110	42.3	5.6	45.6



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356194.D Vial: 37
Acq On : 13 Nov 2019 12:04 Operator: RLD-DGS
Sample : 166498,356194, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 12:24:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	915542	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.58	117	627760	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.90	152	239086	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	231360	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	50108	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	858487	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %		
82) SURR4BrFBenz	13.23	95	235808	0.024 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 120 %#		
Target Compounds					Qvalue
2) Dichlorodi	1.82	85	2212	N.D.	
3) Chloromethan	2.06	50	1953	N.D.	
4) VinylChlorid	2.21	62	8705	0.0006 mg/kg	97
5) Bromomethane	2.68	94	2038	Below Cal	86
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	26244	0.0025 mg/kg	92
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.07	43	21648	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	2939	N.D.	
18) allylchloride	4.48	41	1034	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	28361	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.96	96	1900	N.D.	
23) tbutylalcohol	4.79	59	25424	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	6555	N.D.	
26) 11dichlorota	5.51	63	1457	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.20	77	16672	0.0010 mg/kg#	9
32) c12dichlorte	6.24	96	408683	0.0305 mg/kg	90
33) 2Butanone	6.24	72	3290	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.61	42	3256	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356194.D Vial: 37
Acq On : 13 Nov 2019 12:04 Operator: RLD-DGS
Sample : 166498,356194, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 12:24:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	1880	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.30	78	1482	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	21182200	1.7391 mg/kg	90
50)	methylcyclohexane	8.29	83	4554	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	4563	N.D.	
61)	Toluene	9.76	92	7877	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.32	83	2690	N.D.	
65)	Tetrachlorte	10.48	166	1789	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.55	43	1321	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.57	91	1901	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.79	91	2176	N.D.	
75)	m p-Xylene	11.96	106	1237	N.D.	
76)	o-Xylene	12.50	106	1381	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	13.55	83	1580	N.D.	
85)	123Triclproa	13.56	75	26486	0.0027 mg/kg	74
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	2147	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	0.00	91	0	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356194.D Vial: 37
Acq On : 13 Nov 2019 12:04 Operator: RLD-DGS
Sample : 166498,356194, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 12:24:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	1422	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

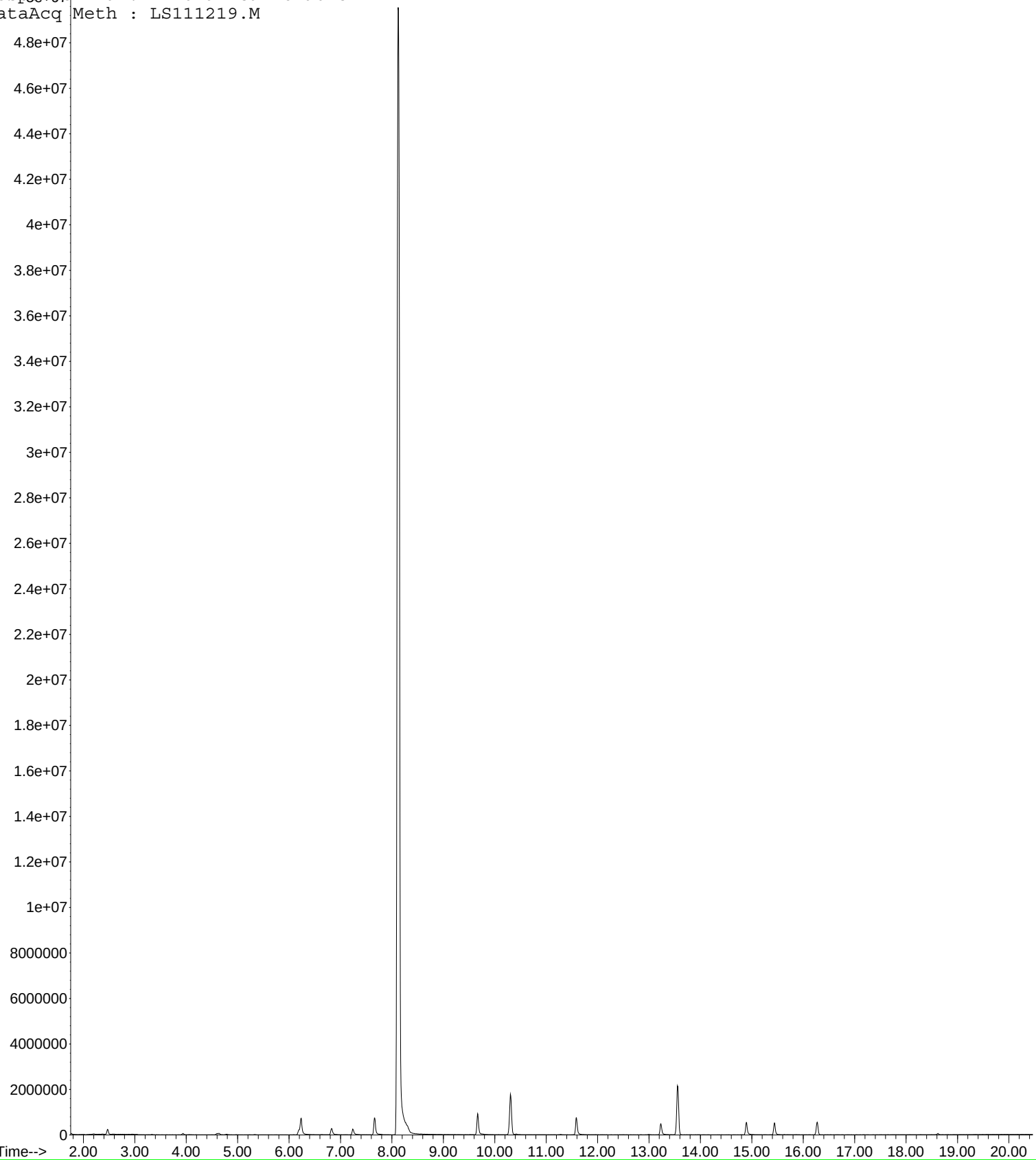
(#) = qualifier out of range (m) = manual integration

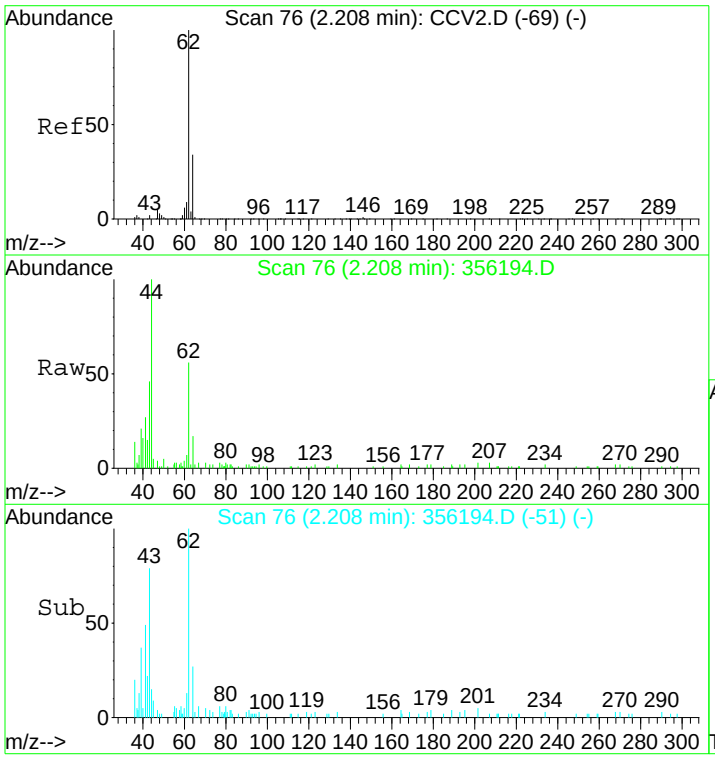
Abundance Quantitation Report TIC: 356194.D

Data File : C:\INSTARCH\DATA\NOV1219B\356194.D Vial: 37
Acq On : 13 Nov 2019 12:04 Operator: RLD-DGS
Sample : 166498,356194, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 12:24:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

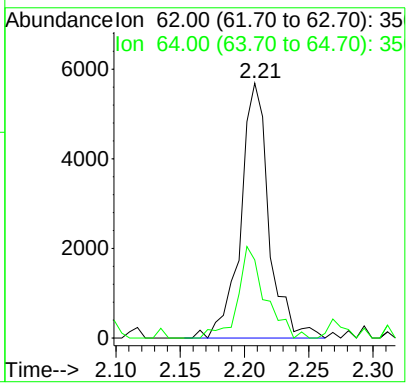


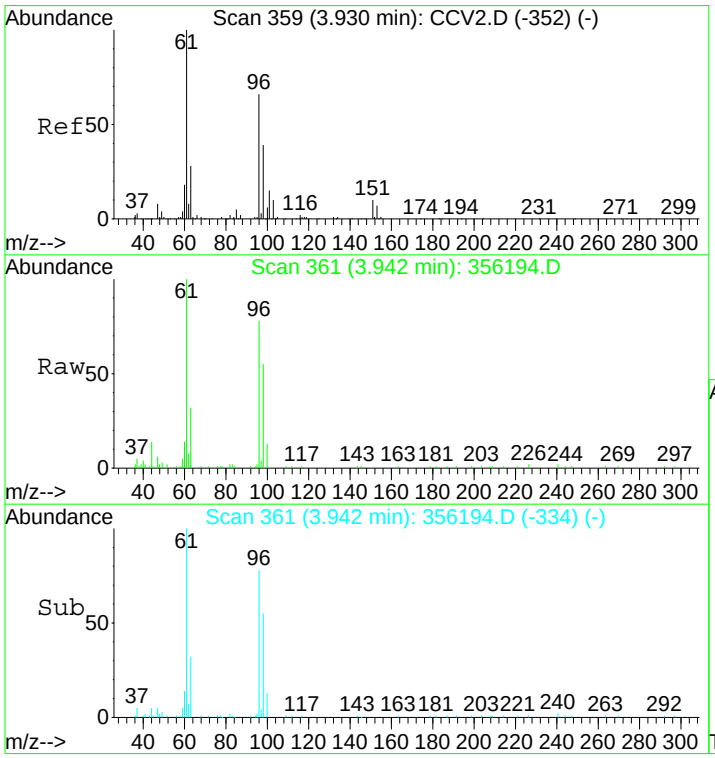


#4
VinylChlorid
Concen: 0.00 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. -0.00 min
Lab File: 356194.D
Acq: 13 Nov 2019 12:04

Tgt Ion: 62 Resp: 8705

Ion	Ratio	Lower	Upper
62	100		
64	34.5	12.9	52.9

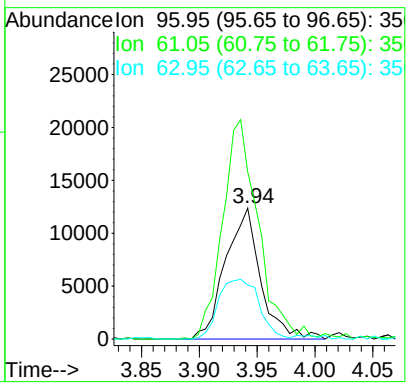


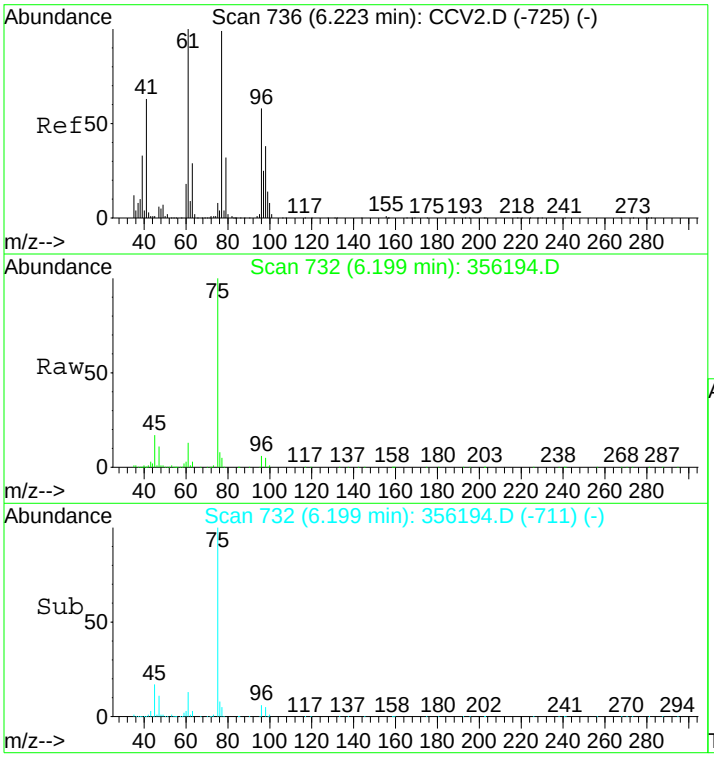


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 361
Delta R.T. 0.01 min
Lab File: 356194.D
Acq: 13 Nov 2019 12:04

Tgt Ion: 96 Resp: 26244

Ion	Ratio	Lower	Upper
96	100		
61	172.1	139.7	179.7
63	52.4	29.4	69.4

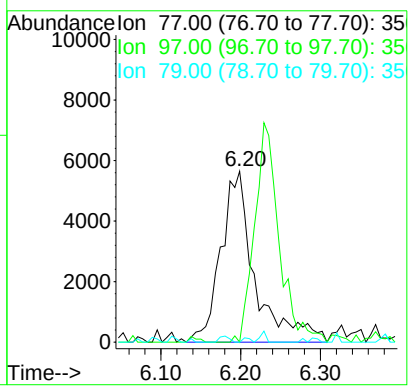




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.20 min Scan# 732
Delta R.T. -0.02 min
Lab File: 356194.D
Acq: 13 Nov 2019 12:04

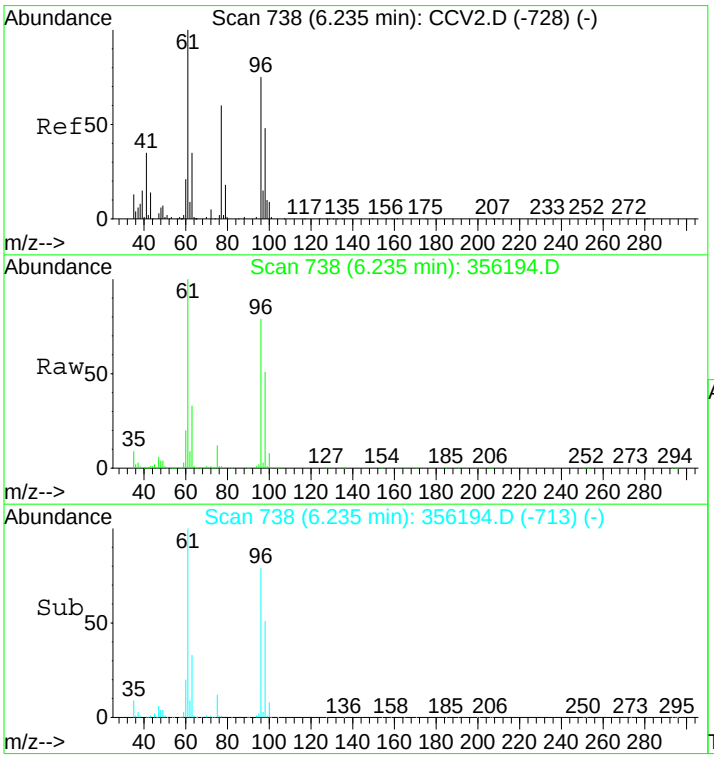
Tgt Ion: 77 Resp: 16672

Ion	Ratio	Lower	Upper
77	100		
97	92.8	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

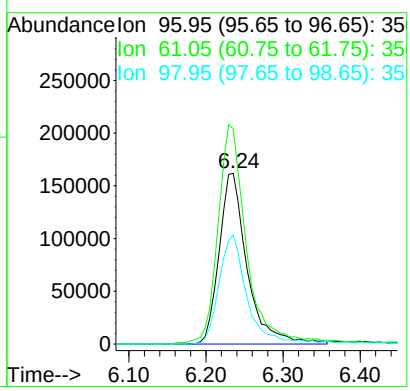
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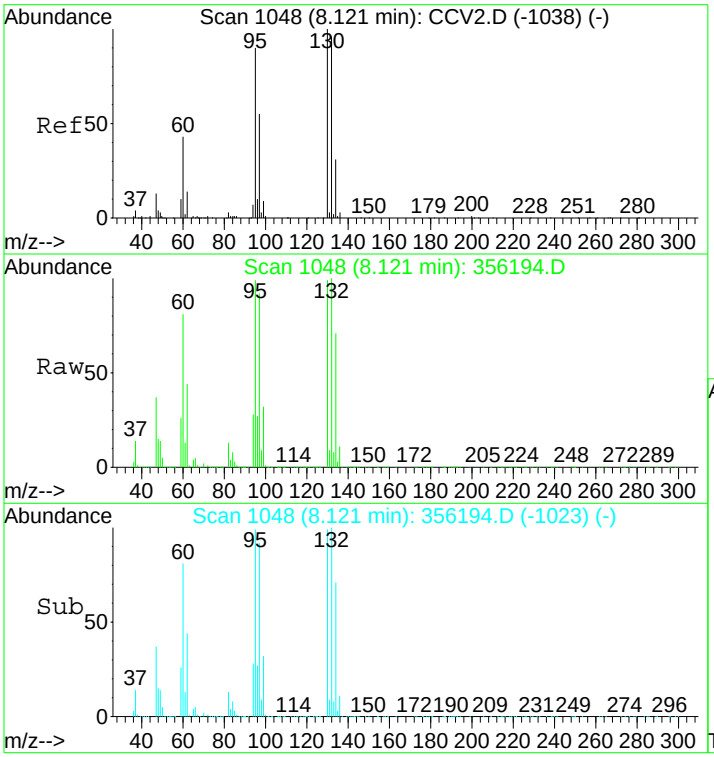


#32
c12dichlorte
Concen: 0.03 mg/kg
RT: 6.24 min Scan# 738
Delta R.T. -0.00 min
Lab File: 356194.D
Acq: 13 Nov 2019 12:04

Tgt Ion: 96 Resp: 408683

Ion	Ratio	Lower	Upper
96	100		
61	130.5	128.4	168.4
98	63.8	44.3	84.3

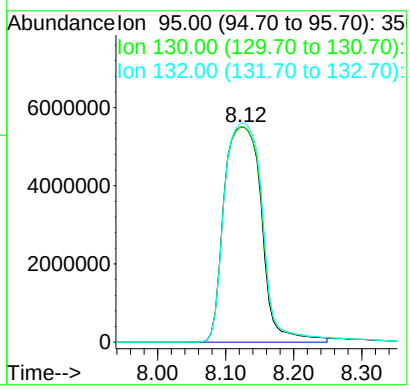


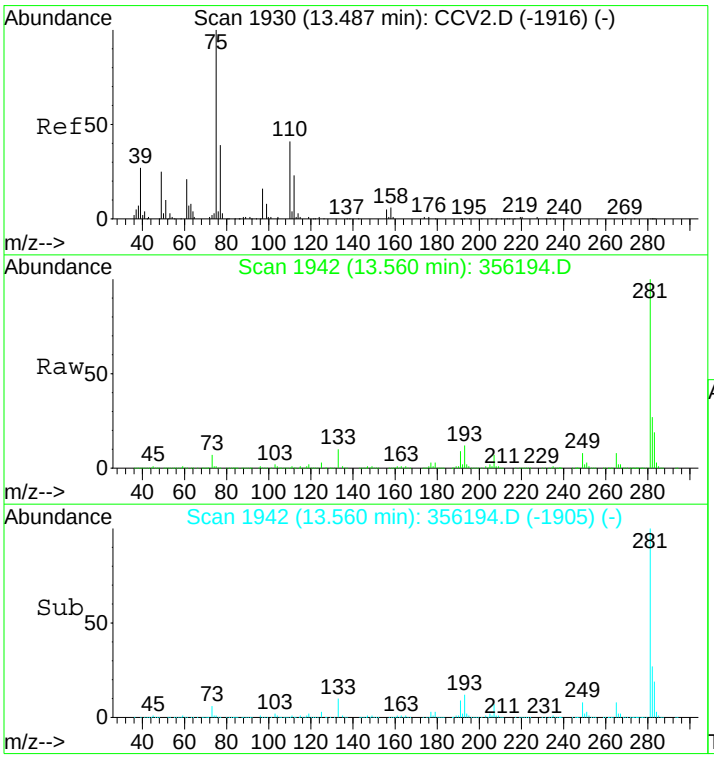


#49
trichloroete
Concen: 1.74 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356194.D
Acq: 13 Nov 2019 12:04

Tgt Ion: 95 Resp:21182200

Ion	Ratio	Lower	Upper
95	100		
130	101.2	94.7	134.7
132	103.1	91.8	131.8

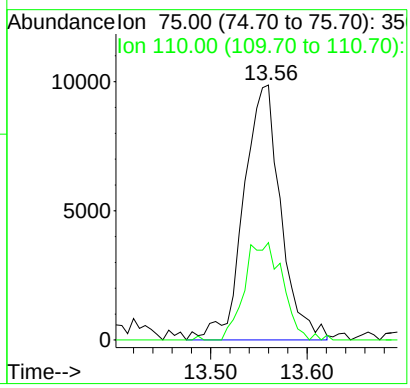




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.56 min Scan# 1942
Delta R.T. 0.07 min
Lab File: 356194.D
Acq: 13 Nov 2019 12:04

Tgt Ion: 75 Resp: 26486

Ion	Ratio	Lower	Upper
75	100		
110	38.8	5.6	45.6



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356195.D Vial: 38
Acq On : 13 Nov 2019 12:33 Operator: RLD-DGS
Sample : 166498,356195, Inst : VMS4
Misc : 4.71g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 12:53:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	913703	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.58	117	697837	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	310315	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	237432	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	50569	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	901847	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	288398	0.023 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 115 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2048	N.D.	
3) Chloromethan	2.06	50	1775	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.92	96	1833	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	18024	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	2652	N.D.	
18) allylchloride	4.50	41	1056	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	31797	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.80	59	18031	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	6810	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	4691	N.D.	
31) 22dichloropr	6.19	77	9691	0.0006 mg/kg#	45
32) c12dichlorte	6.24	96	22740	0.0017 mg/kg#	86
33) 2Butanone	6.20	72	1214	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356195.D Vial: 38
Acq On : 13 Nov 2019 12:33 Operator: RLD-DGS
Sample : 166498,356195, Inst : VMS4
Misc : 4.71g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 12:53:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	3336	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	183980	0.0151 mg/kg	96
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.52	43	5193	N.D.	
61)	Toluene	9.76	92	14948	0.0005 mg/kg#	83
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.31	83	2056	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1584	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.79	91	1297	N.D.	
75)	m p-Xylene	11.95	106	1278	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.21	55	1468	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	27443	0.0021 mg/kg#	46
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.56	91	1553	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1227	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.46	91	1248	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356195.D Vial: 38
Acq On : 13 Nov 2019 12:33 Operator: RLD-DGS
Sample : 166498,356195, Inst : VMS4
Misc : 4.71g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 12:53:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.02	128	1695	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

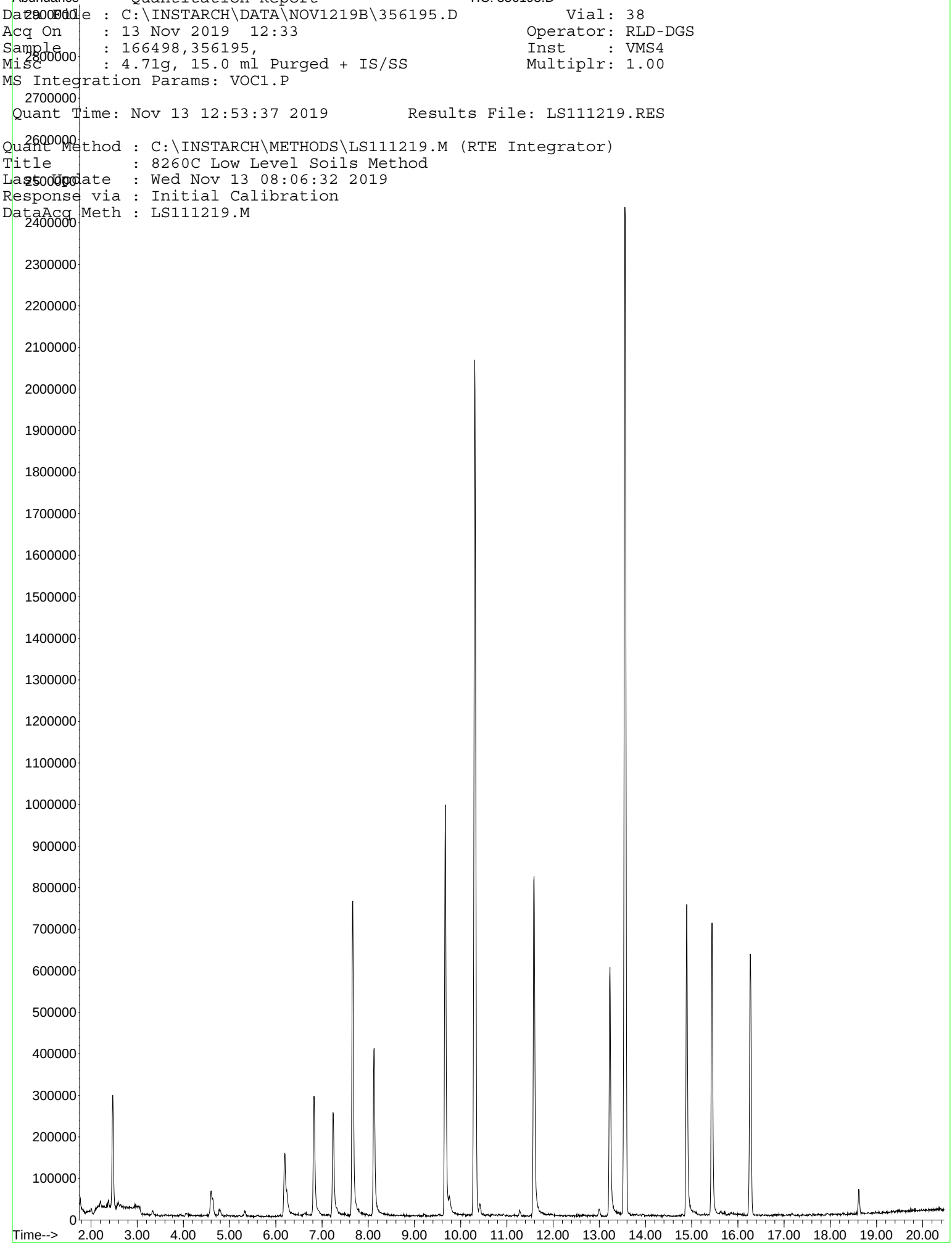
(#) = qualifier out of range (m) = manual integration

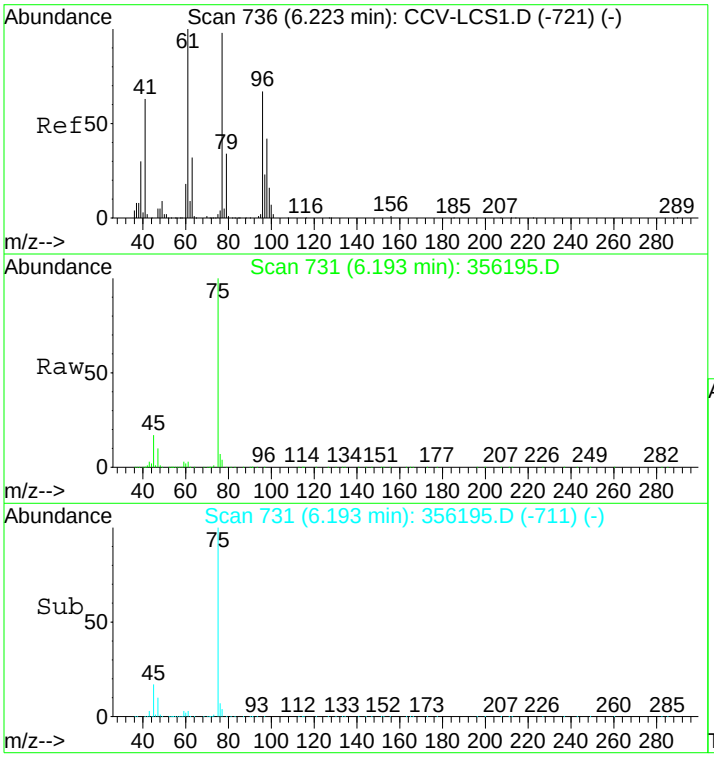
Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356195.D Vial: 38
Acq On : 13 Nov 2019 12:33 Operator: RLD-DGS
Sample : 166498,356195, Inst : VMS4
Misc : 4.71g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 12:53:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

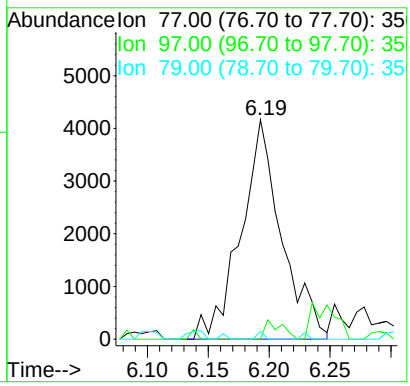




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.19 min Scan# 731
Delta R.T. -0.03 min
Lab File: 356195.D
Acq: 13 Nov 2019 12:33

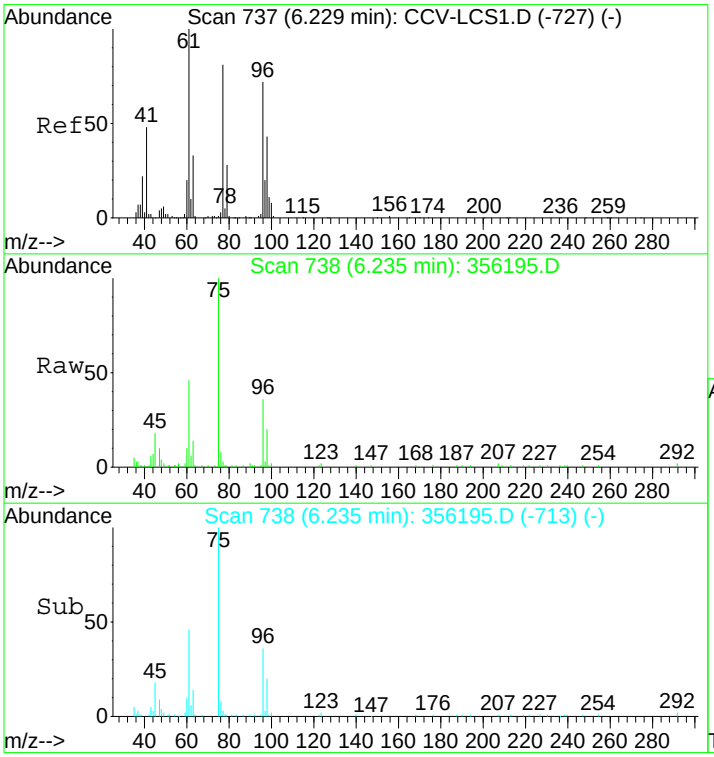
Tgt Ion: 77 Resp: 9691

Ion	Ratio	Lower	Upper
77	100		
97	0.0	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

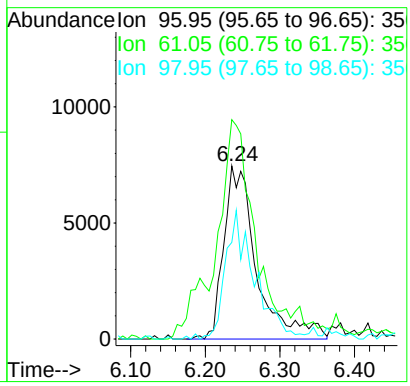
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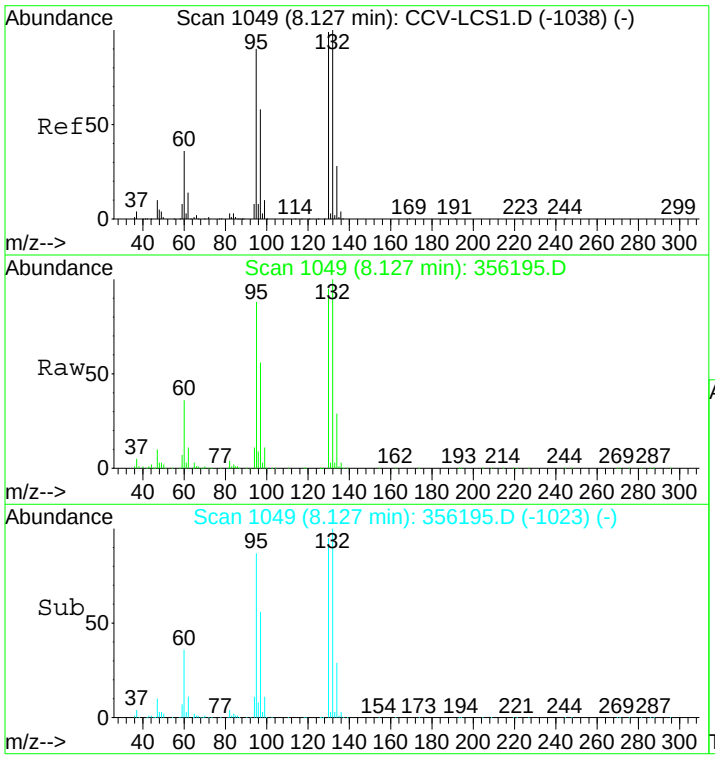


#32
c12dichlorte
Concen: 0.00 mg/kg
RT: 6.24 min Scan# 738
Delta R.T. 0.00 min
Lab File: 356195.D
Acq: 13 Nov 2019 12:33

Tgt Ion: 96 Resp: 22740

Ion	Ratio	Lower	Upper
96	100		
61	124.7	128.4	168.4#
98	65.7	44.3	84.3

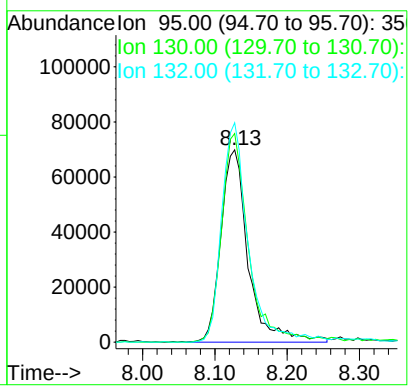


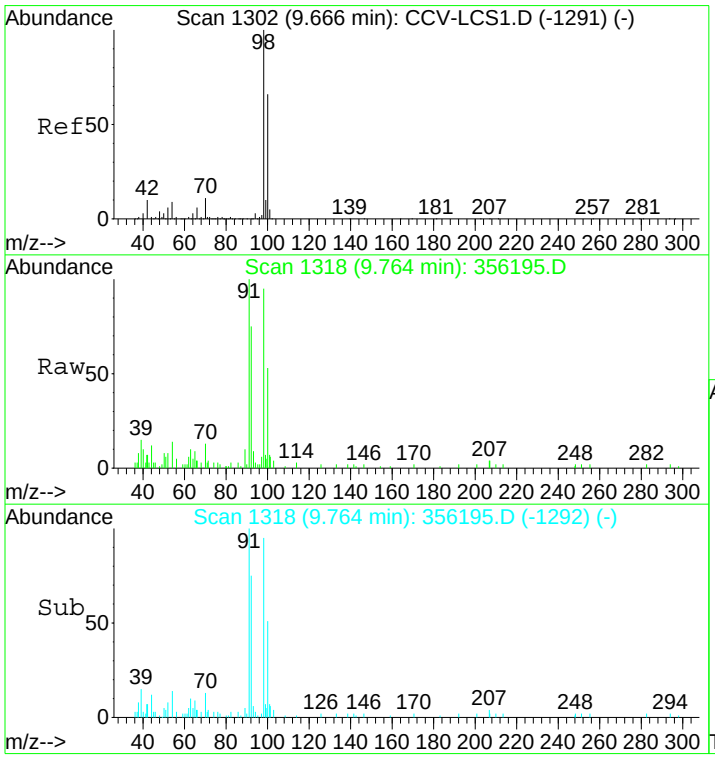


#49
trichloroete
Concen: 0.02 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356195.D
Acq: 13 Nov 2019 12:33

Tgt Ion: 95 Resp: 183980

Ion	Ratio	Lower	Upper
95	100		
130	107.0	94.7	134.7
132	110.8	91.8	131.8

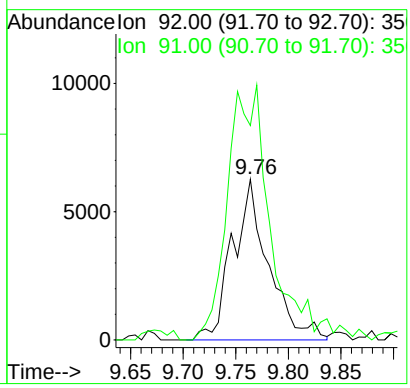


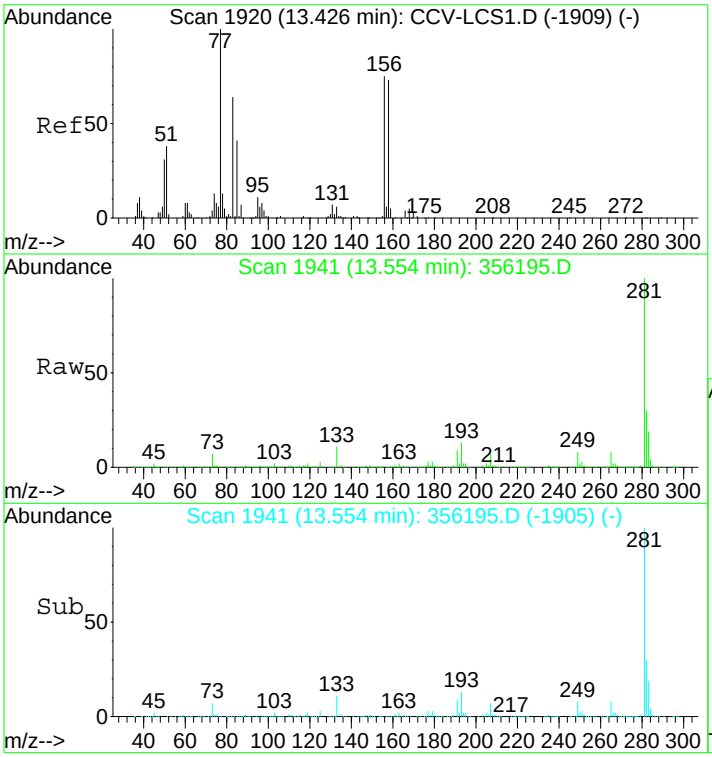


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.76 min Scan# 1318
Delta R.T. 0.01 min
Lab File: 356195.D
Acq: 13 Nov 2019 12:33

Tgt Ion: 92 Resp: 14948

Ion	Ratio	Lower	Upper
92	100		
91	190.7	148.0	188.0#

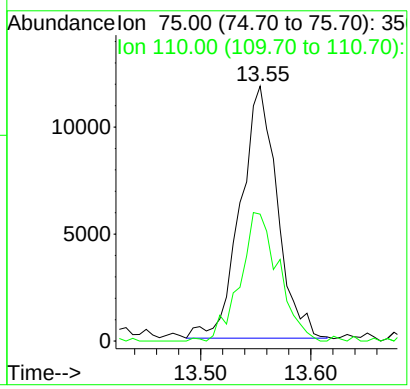




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356195.D
Acq: 13 Nov 2019 12:33

Tgt Ion: 75 Resp: 27443

Ion	Ratio	Lower	Upper
75	100		
110	53.1	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356196.D Vial: 39
Acq On : 13 Nov 2019 13:02 Operator: RLD-DGS
Sample : 166498,356196, Inst : VMS4
Misc : 7.34g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 13:22:58 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	901792	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	669701	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	238271	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	240130	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 110 %		
45) SURR12DCAd4	7.25	102	47984	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %		
60) SURRd8Tolule	9.67	98	882620	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	243941	0.025 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 125 %#		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2120	N.D.	
3) Chloromethan	2.06	50	2239	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	1371	Below Cal #	1
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	32985	0.0110 mg/kg	98
16) Iodomethane	4.12	142	1418	0.0010 mg/kg#	44
17) Carbon Dislf	4.20	76	2490	N.D.	
18) allylchloride	4.50	41	1364	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	30973	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	12483	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.34	57	4765	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	3549	N.D.	
31) 22dichloropr	6.19	77	9556	0.0006 mg/kg#	45
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	6.19	72	1184	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.65	42	1435	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356196.D Vial: 39
Acq On : 13 Nov 2019 13:02 Operator: RLD-DGS
Sample : 166498,356196, Inst : VMS4
Misc : 7.34g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 13:22:58 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	6.92	56	1101	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.32	78	2981	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.13	95	12946	0.0011	mg/kg	97
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.53	43	6587	N.D.		
61)	Toluene	9.76	92	4740	N.D.		
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	10.31	83	2245	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	0.00	43	0	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1Clhexane	11.58	91	1416	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	0.00	91	0	N.D.		
75)	m p-Xylene	0.00	106	0	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	13.55	83	1103	N.D.		
85)	123Triclproa	13.46	75	1380	N.D.		
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.57	91	1031	N.D.		
88)	2chlorotolue	0.00	91	0	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	13.75	105	1005	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.39	105	1425	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	0.00	119	0	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	0.00	91	0	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356196.D Vial: 39
Acq On : 13 Nov 2019 13:02 Operator: RLD-DGS
Sample : 166498,356196, Inst : VMS4
Misc : 7.34g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 13:22:58 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	1558	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

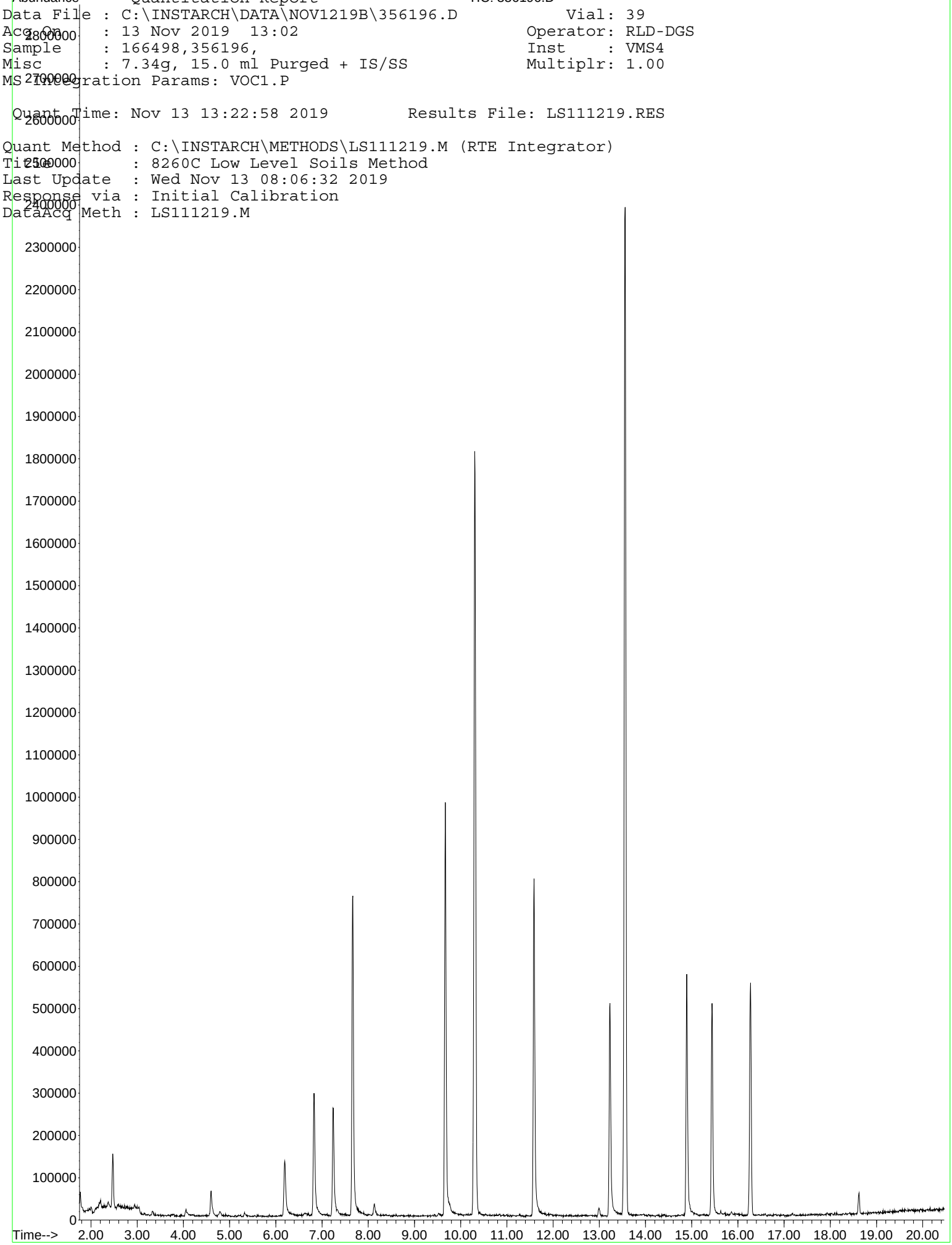
(#) = qualifier out of range (m) = manual integration

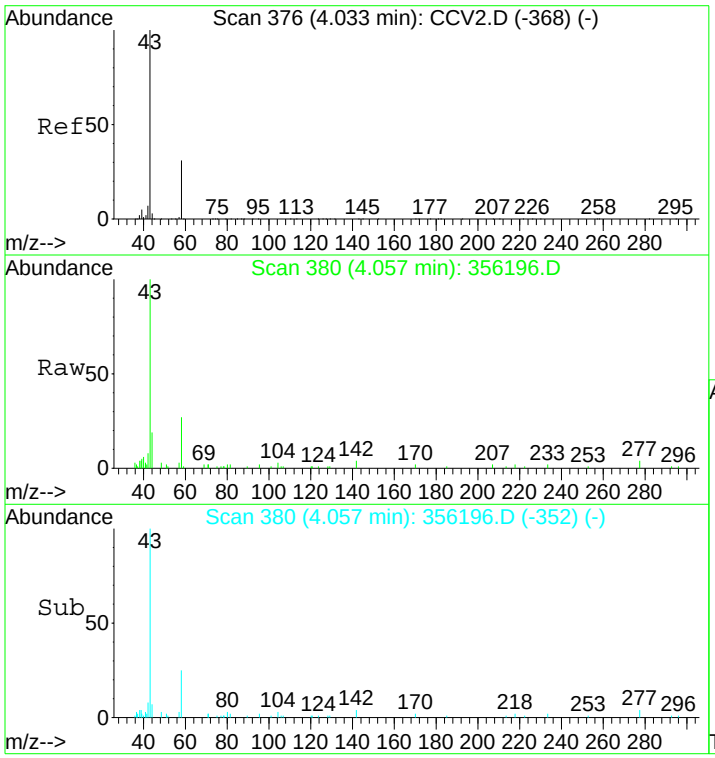
Abundance Quantitation Report TIC: 356196.D

Data File : C:\INSTARCH\DATA\NOV1219B\356196.D Vial: 39
Acq On : 13 Nov 2019 13:02 Operator: RLD-DGS
Sample : 166498,356196, Inst : VMS4
Misc : 7.34g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 13:22:58 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

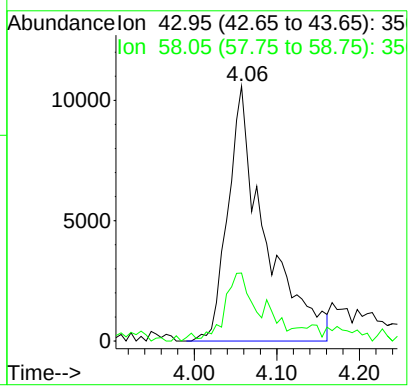


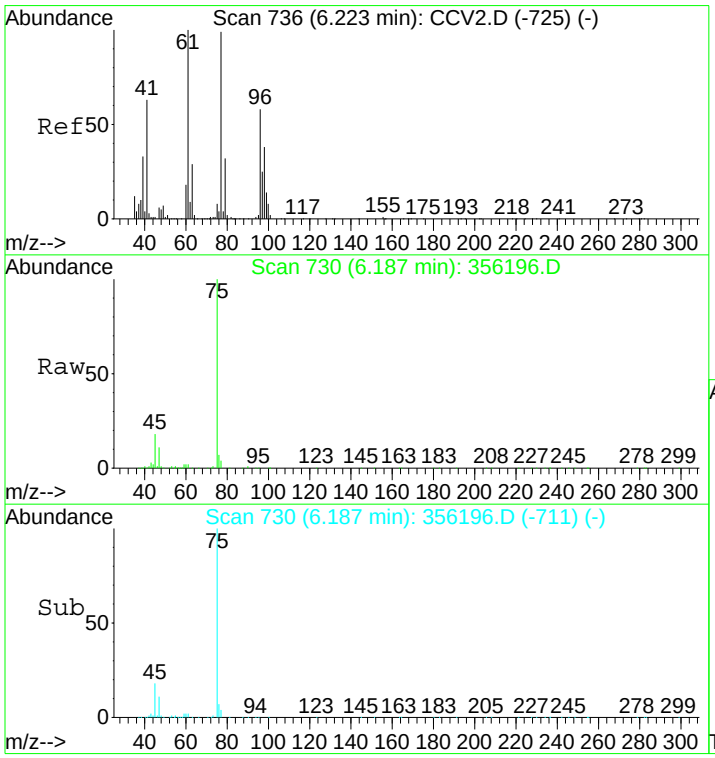


#15
Acetone
Concen: 0.01 mg/kg
RT: 4.06 min Scan# 380
Delta R.T. 0.02 min
Lab File: 356196.D
Acq: 13 Nov 2019 13:02

Tgt Ion: 43 Resp: 32985

Ion	Ratio	Lower	Upper
43	100		
58	26.5	7.7	47.7

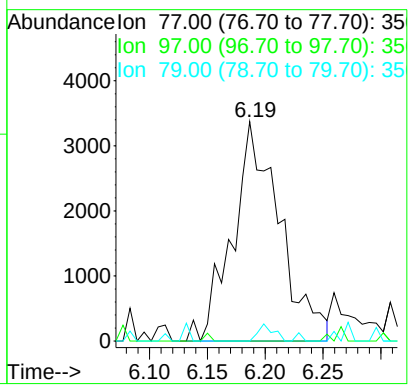




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.19 min Scan# 730
Delta R.T. -0.04 min
Lab File: 356196.D
Acq: 13 Nov 2019 13:02

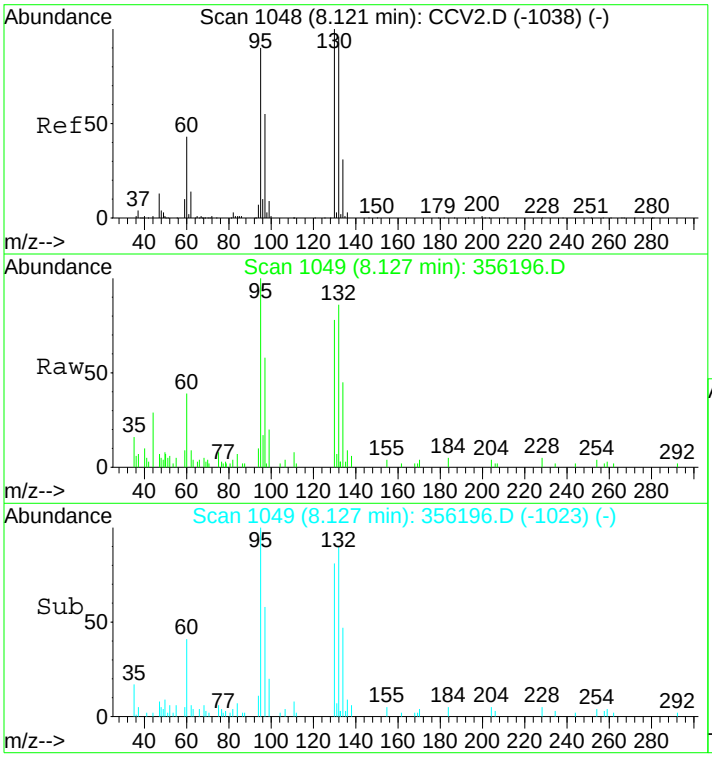
Tgt Ion: 77 Resp: 9556

Ion	Ratio	Lower	Upper
77	100		
97	0.0	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

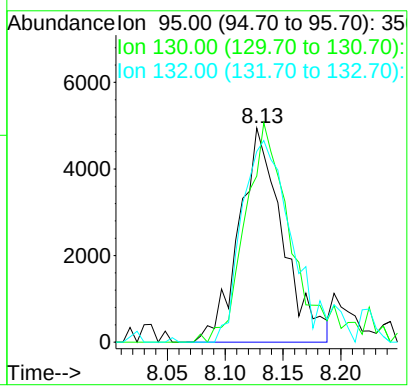
[redacted]



#49
trichloroete
Concen: 0.00 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356196.D
Acq: 13 Nov 2019 13:02

Tgt Ion: 95 Resp: 12946

Ion	Ratio	Lower	Upper
95	100		
130	109.2	94.7	134.7
132	111.5	91.8	131.8



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356197.D Vial: 40
Acq On : 13 Nov 2019 13:31 Operator: RLD-DGS
Sample : 166498,356197, Inst : VMS4
Misc : 5.95g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 13:51:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	887430	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	689943	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	389274	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	228497	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	48085	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	869827	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	304156	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %		
Target Compounds					Qvalue
2) Dichlorodi	1.82	85	2062	N.D.	
3) Chloromethan	0.00	50	0	N.D.	
4) VinylChlorid	2.21	62	10787	0.0008 mg/kg	100
5) Bromomethane	2.69	94	1983	Below Cal	92
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	9901	0.0010 mg/kg	91
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	21161	N.D.	
16) Iodomethane	4.12	142	1575	0.0011 mg/kg#	44
17) Carbon Dislf	4.21	76	2619	N.D.	
18) allylchloride	4.50	41	1028	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.61	84	29541	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.97	96	3481	N.D.	
23) tbutylalcohol	4.78	59	23040	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	9037	N.D.	
26) 11dichlorota	5.49	63	15178	0.0007 mg/kg	98
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.19	77	14863	0.0009 mg/kg#	1
32) c12dichlorte	6.23	96	1039475	0.0801 mg/kg	89
33) 2Butanone	6.23	72	8567	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356197.D Vial: 40
Acq On : 13 Nov 2019 13:31 Operator: RLD-DGS
Sample : 166498,356197, Inst : VMS4
Misc : 5.95g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 13:51:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	2648	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	11392962	0.9650 mg/kg	92
50)	methylcyclohexane	8.24	83	1999	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	8.40	75	1131	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	4267	N.D.	
61)	Toluene	9.76	92	8404	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.29	83	1102	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1415	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	13.53	83	1027	N.D.	
85)	123Triclproa	13.56	75	24382	0.0015 mg/kg#	53
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1457	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.43	91	1335	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356197.D Vial: 40
Acq On : 13 Nov 2019 13:31 Operator: RLD-DGS
Sample : 166498,356197, Inst : VMS4
Misc : 5.95g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 13:51:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	2510	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

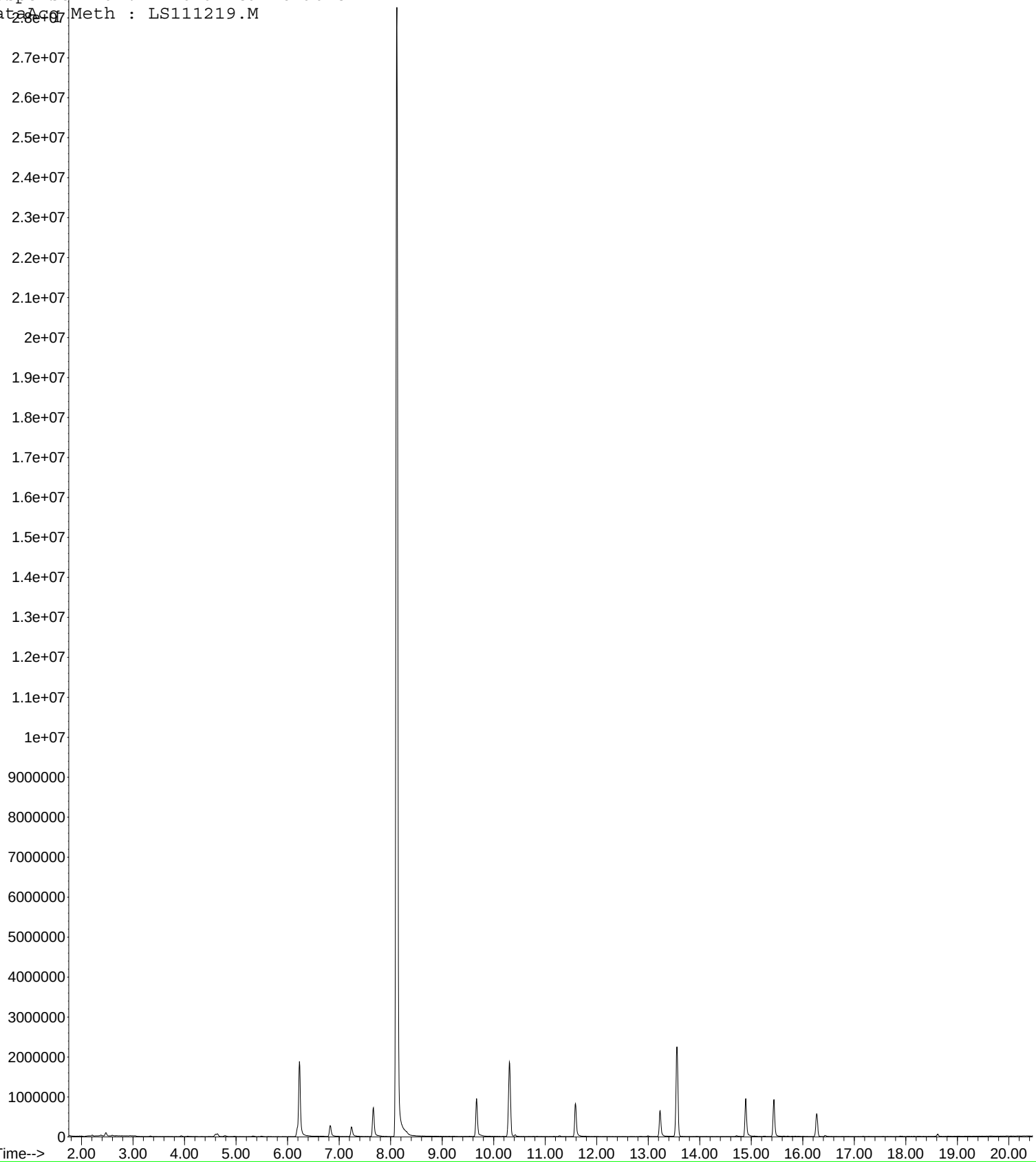
(#) = qualifier out of range (m) = manual integration

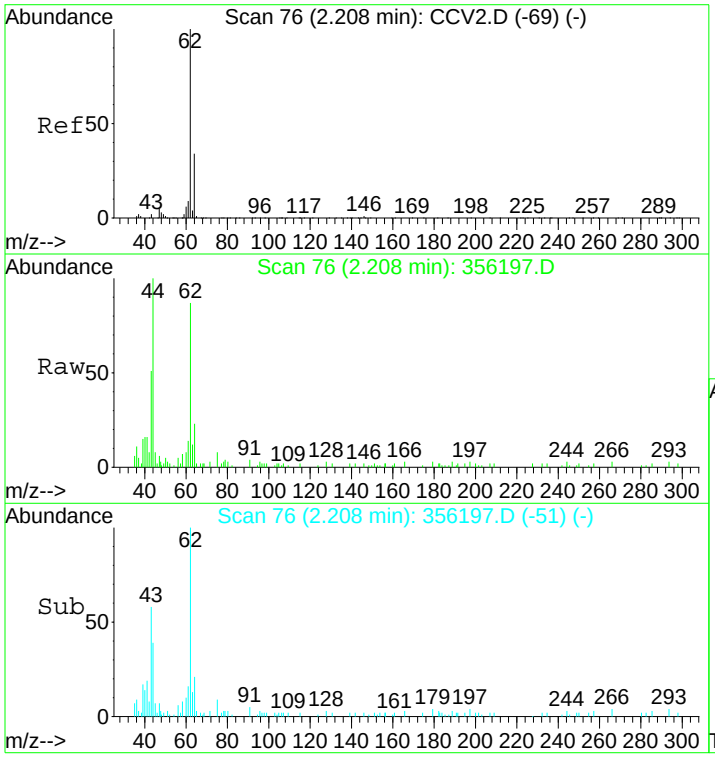
Abundance Quantitation Report TIC: 356197.D

Data File : C:\INSTARCH\DATA\NOV1219B\356197.D Vial: 40
Acq On : 13 Nov 2019 13:31 Operator: RLD-DGS
Sample : 166498,356197, Inst : VMS4
Misc : 5.95g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 13:51:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

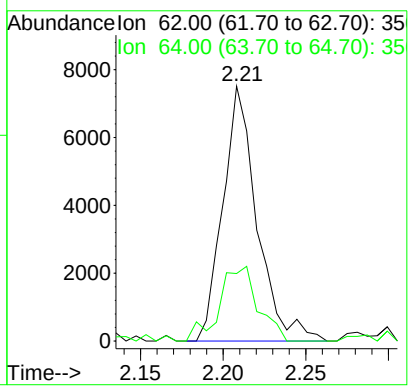


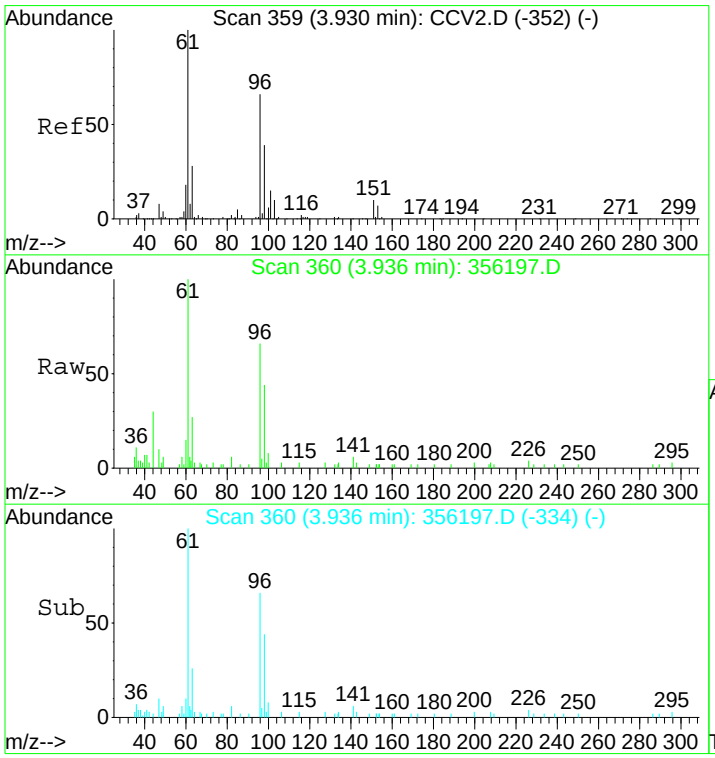


#4
VinylChlorid
Concen: 0.00 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. 0.00 min
Lab File: 356197.D
Acq: 13 Nov 2019 13:31

Tgt Ion: 62 Resp: 10787

Ion	Ratio	Lower	Upper
62	100		
64	33.1	12.9	52.9

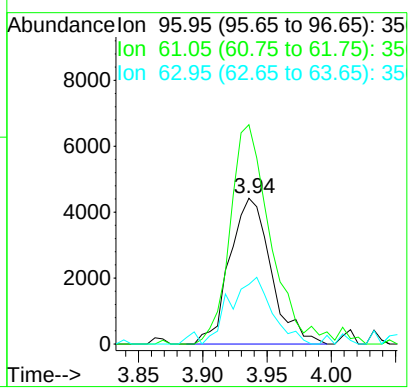


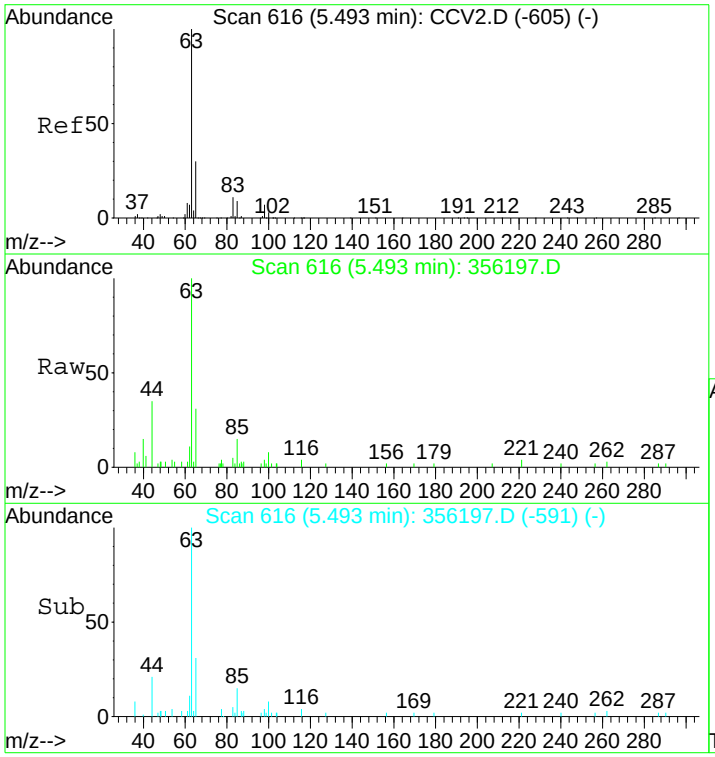


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356197.D
Acq: 13 Nov 2019 13:31

Tgt Ion: 96 Resp: 9901

Ion	Ratio	Lower	Upper
96	100		
61	146.8	139.7	179.7
63	46.3	29.4	69.4

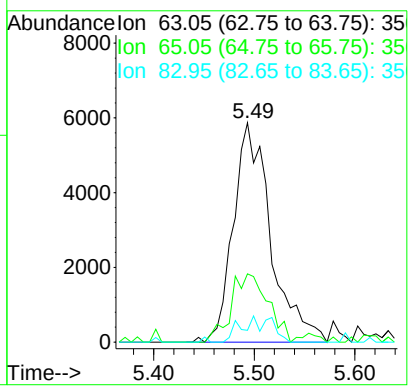


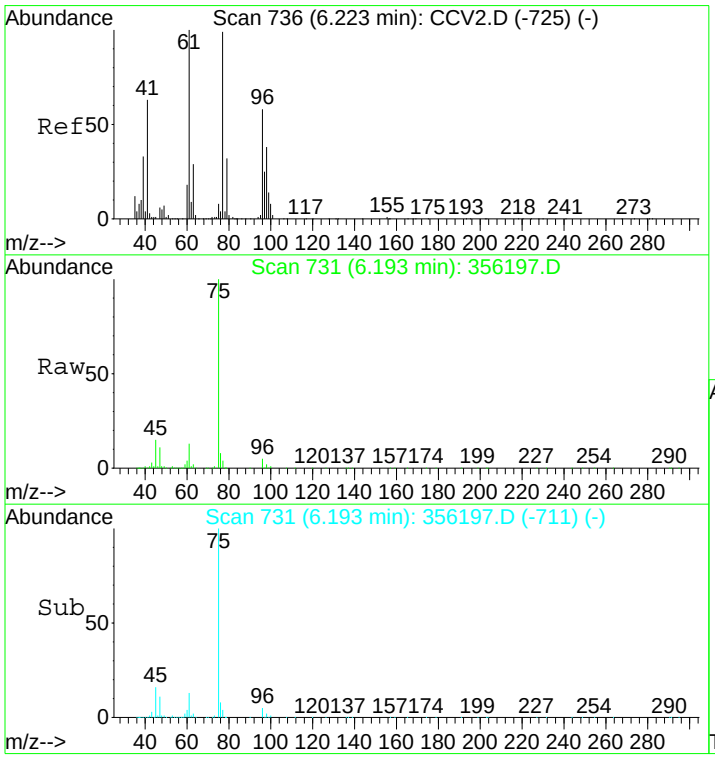


#26
11dichlorota
Concen: 0.00 mg/kg
RT: 5.49 min Scan# 616
Delta R.T. 0.00 min
Lab File: 356197.D
Acq: 13 Nov 2019 13:31

Tgt Ion: 63 Resp: 15178

Ion	Ratio	Lower	Upper
63	100		
65	31.5	11.7	51.7
83	9.5	0.0	32.3

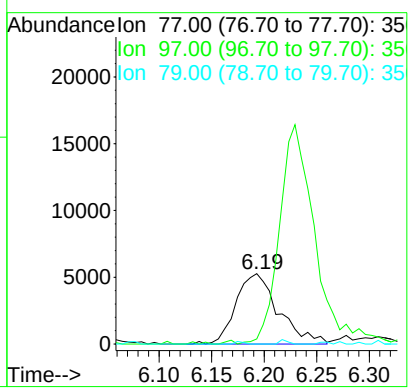




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.19 min Scan# 731
Delta R.T. -0.03 min
Lab File: 356197.D
Acq: 13 Nov 2019 13:31

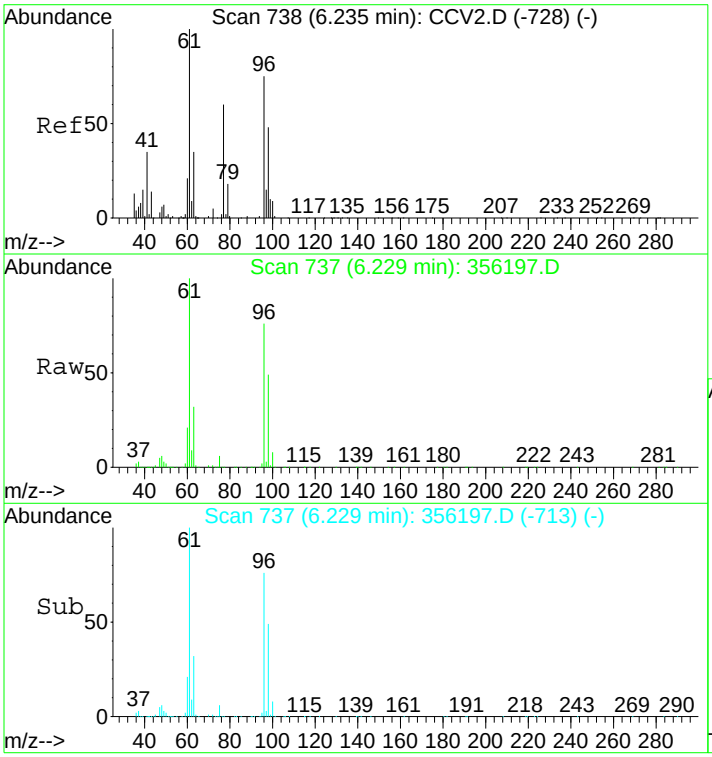
Tgt Ion: 77 Resp: 14863

Ion	Ratio	Lower	Upper
77	100		
97	261.2	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

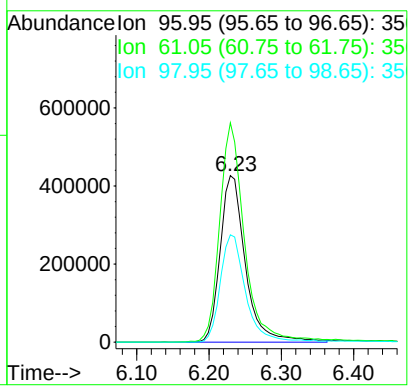
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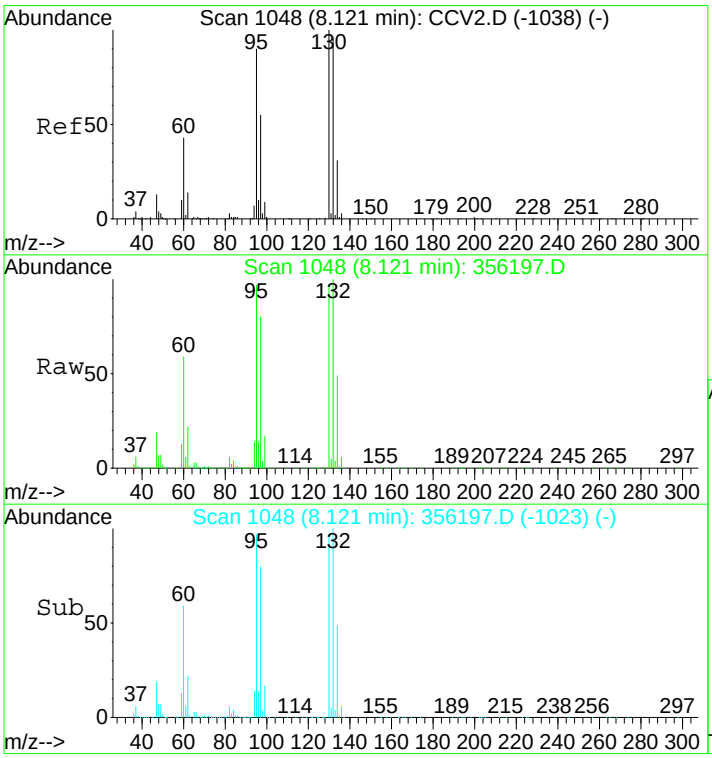


#32
c12dichlorte
Concen: 0.08 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356197.D
Acq: 13 Nov 2019 13:31

Tgt Ion: 96 Resp: 1039475

Ion	Ratio	Lower	Upper
96	100		
61	128.8	128.4	168.4
98	64.4	44.3	84.3

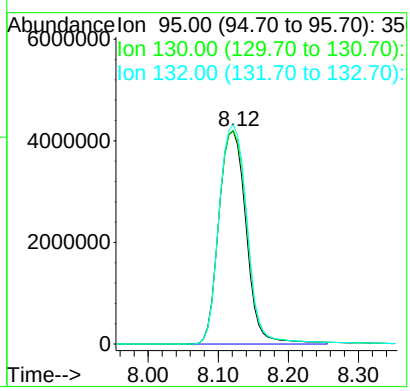


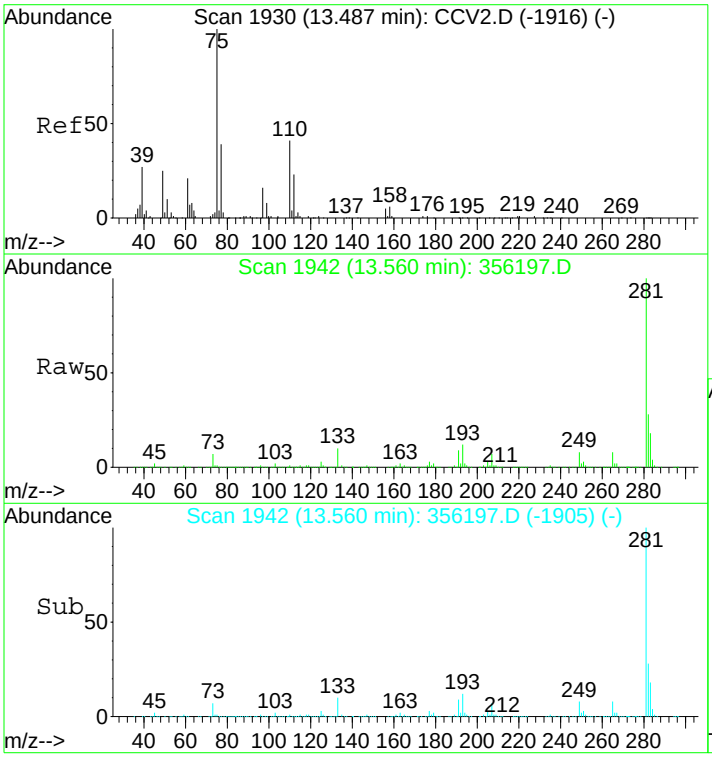


#49
trichloroete
Concen: 0.97 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356197.D
Acq: 13 Nov 2019 13:31

Tgt Ion: 95 Resp:11392962

Ion	Ratio	Lower	Upper
95	100		
130	103.4	94.7	134.7
132	105.6	91.8	131.8

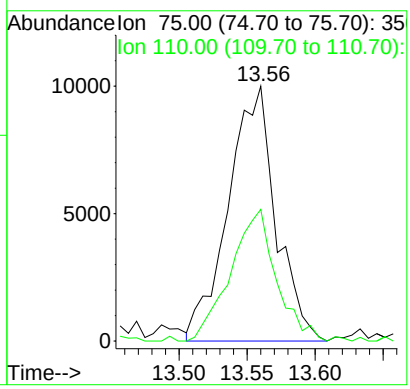




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.56 min Scan# 1942
Delta R.T. 0.07 min
Lab File: 356197.D
Acq: 13 Nov 2019 13:31

Tgt Ion: 75 Resp: 24382

Ion	Ratio	Lower	Upper
75	100		
110	49.4	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356198.D Vial: 41
Acq On : 13 Nov 2019 14:00 Operator: RLD-DGS
Sample : 166498,356198, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 14:20:34 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	931902	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	741311	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	399352	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	245835	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.23	102	50650	0.021 mg/kg	-0.01
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	932983	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	324356	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.05	50	2183	N.D.	
4) VinylChlorid	2.21	62	7226	0.0005 mg/kg	97
5) Bromomethane	2.61	94	1083	Below Cal #	1
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	6255	0.0006 mg/kg	91
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	14352	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	2698	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	35505	0.0019 mg/kg	86
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.97	96	1606	N.D.	
23) tbutylalcohol	4.80	59	9649	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	3434	N.D.	
26) 11dichlorota	5.49	63	10799	0.0005 mg/kg	95
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.19	77	3571	N.D.	
32) c12dichlorte	6.23	96	631099	0.0463 mg/kg	90
33) 2Butanone	6.23	72	4487	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356198.D Vial: 41
Acq On : 13 Nov 2019 14:00 Operator: RLD-DGS
Sample : 166498,356198, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 14:20:34 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	1283	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	7054387	0.5690 mg/kg	94
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	6216	N.D.	
61)	Toluene	9.76	92	13216	0.0004 mg/kg	93
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.29	83	1136	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.55	43	1070	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.59	91	2116	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.80	91	2244	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	13.54	83	1156	N.D.	
85)	123Triclproa	13.55	75	29111	0.0018 mg/kg#	60
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.58	91	1495	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1207	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.42	91	1550	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Report

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356198.D Vial: 41
Acq On : 13 Nov 2019 14:00 Operator: RLD-DGS
Sample : 166498,356198, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 14:20:34 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	2850	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

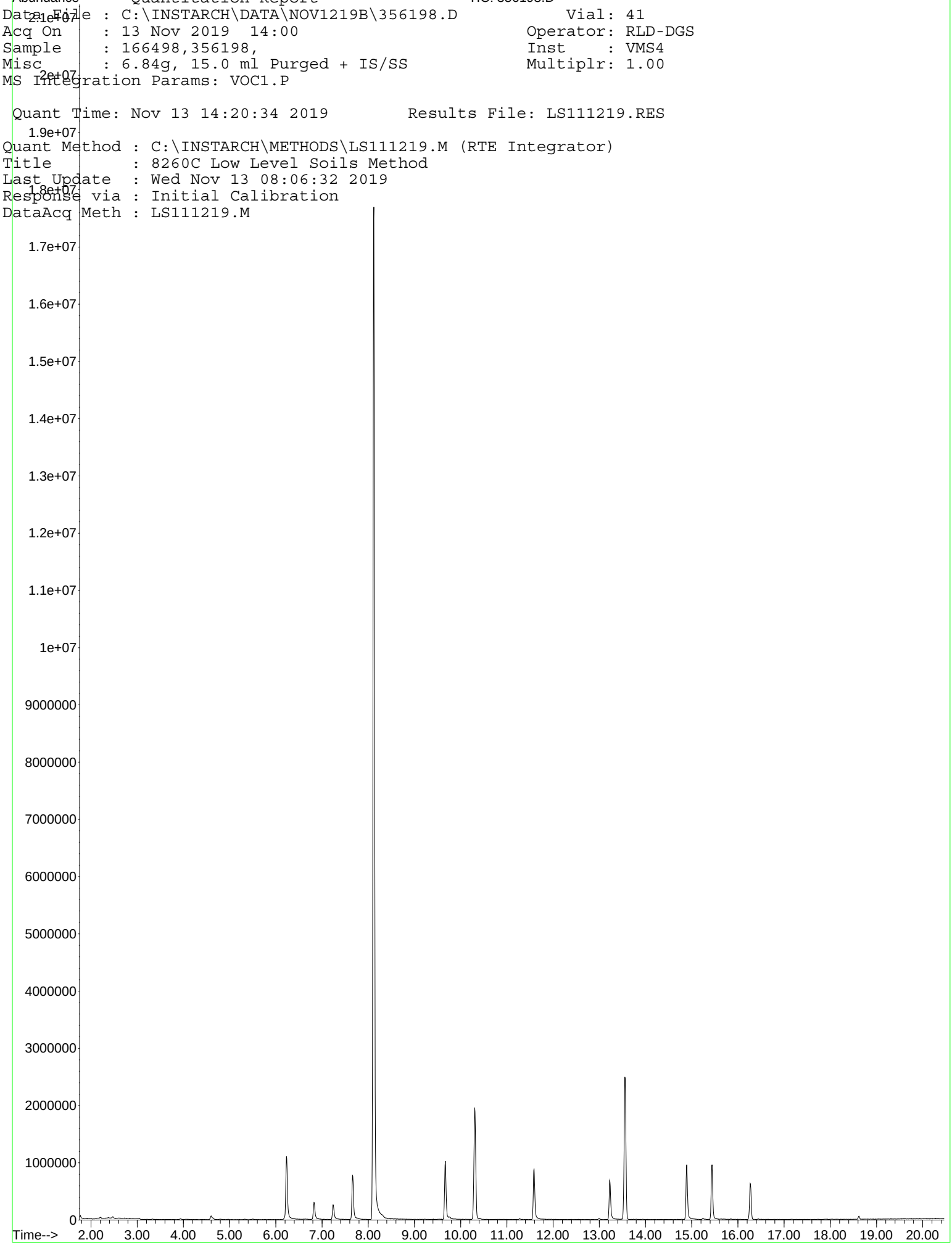
(#) = qualifier out of range (m) = manual integration

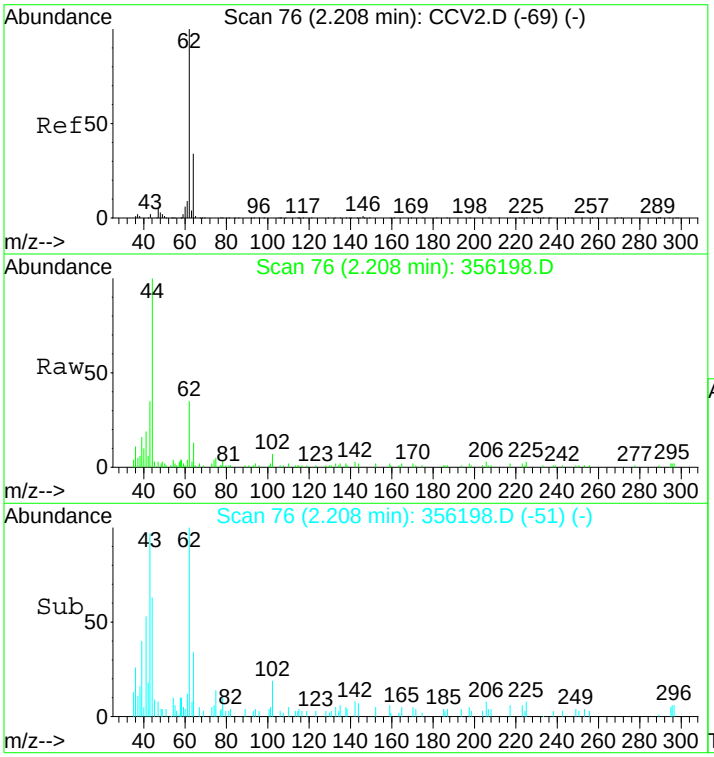
Abundance Quantitation Report TIC: 356198.D

Data File : C:\INSTARCH\DATA\NOV1219B\356198.D Vial: 41
Acq On : 13 Nov 2019 14:00 Operator: RLD-DGS
Sample : 166498,356198, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 14:20:34 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

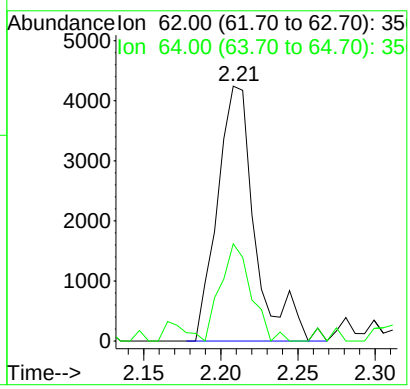


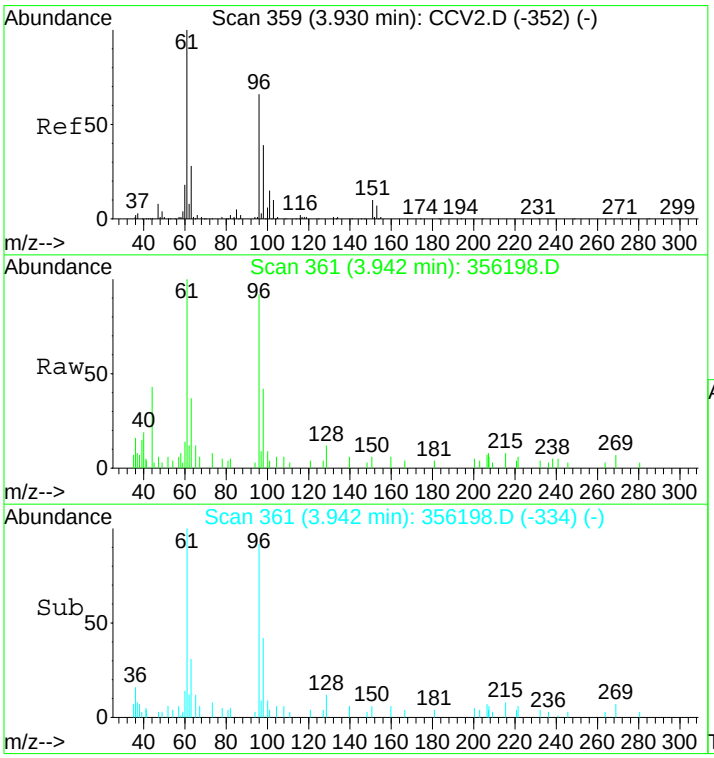


#4
VinylChlorid
Concen: 0.00 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. 0.00 min
Lab File: 356198.D
Acq: 13 Nov 2019 14:00

Tgt Ion: 62 Resp: 7226

Ion	Ratio	Lower	Upper
62	100		
64	30.9	12.9	52.9

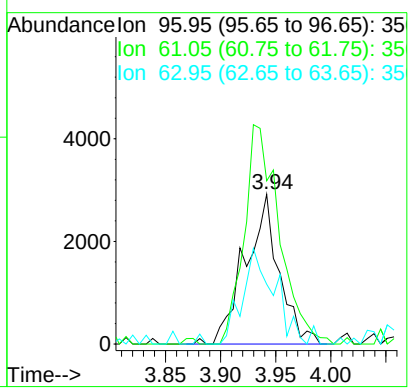


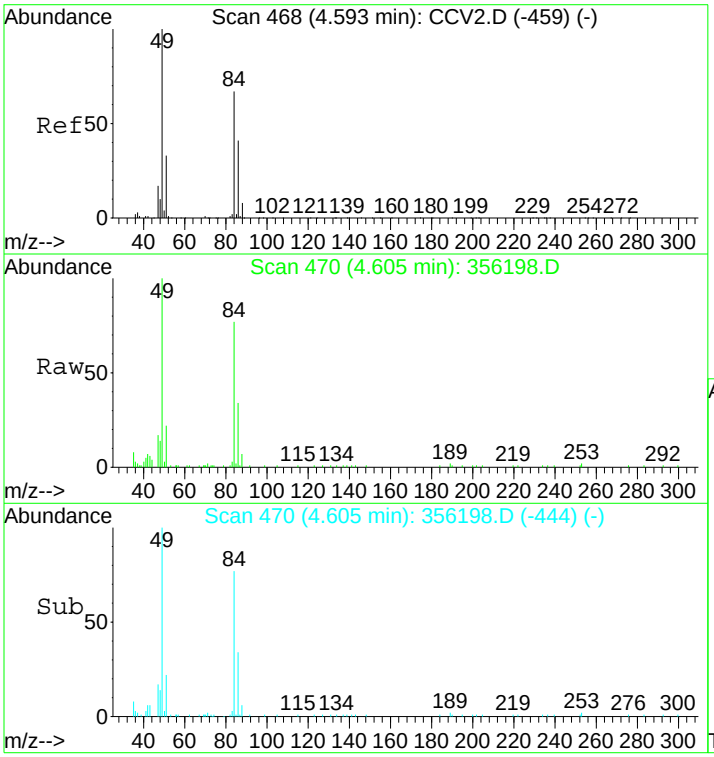


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 361
Delta R.T. 0.01 min
Lab File: 356198.D
Acq: 13 Nov 2019 14:00

Tgt Ion: 96 Resp: 6255

Ion	Ratio	Lower	Upper
96	100		
61	151.4	139.7	179.7
63	60.4	29.4	69.4

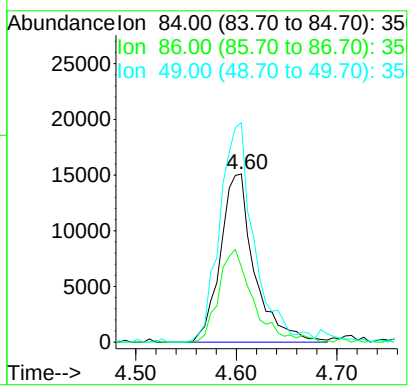


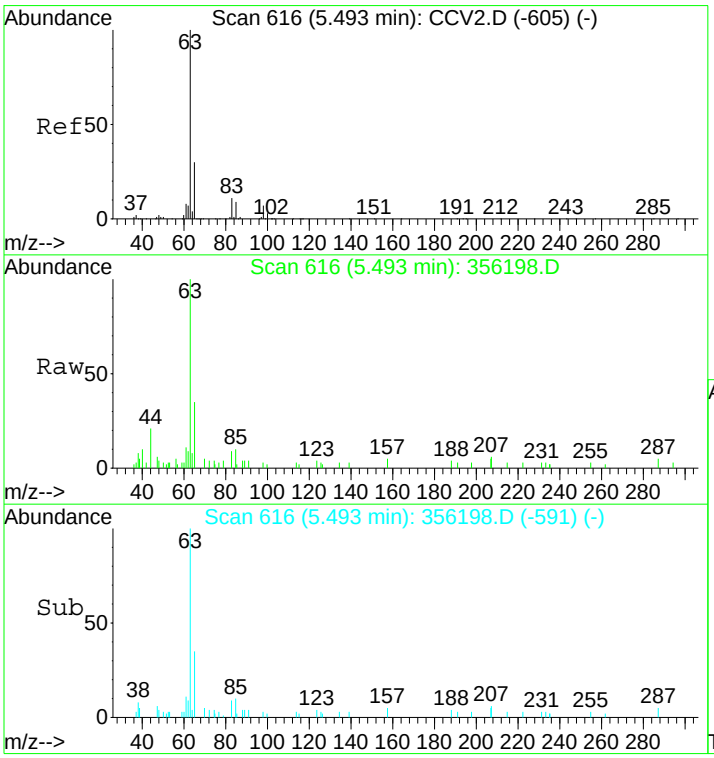


#20
Methylchlorid
Concen: 0.00 mg/kg
RT: 4.60 min Scan# 470
Delta R.T. 0.01 min
Lab File: 356198.D
Acq: 13 Nov 2019 14:00

Tgt Ion: 84 Resp: 35505

Ion	Ratio	Lower	Upper
84	100		
86	55.8	47.4	87.4
49	131.6	128.2	168.2

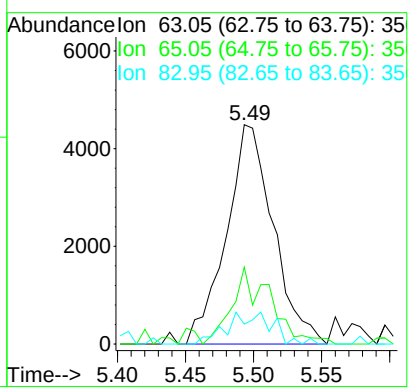


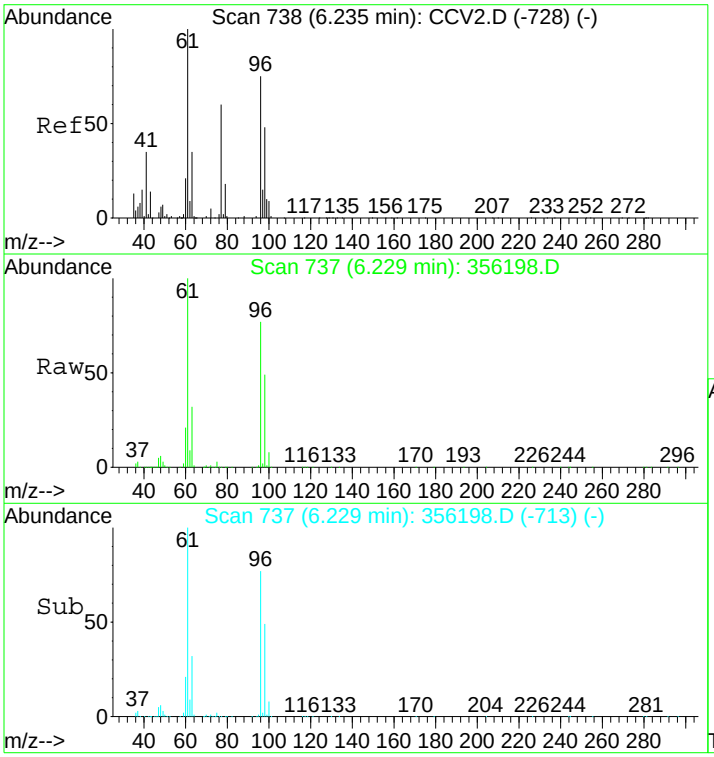


#26
11dichlorota
Concen: 0.00 mg/kg
RT: 5.49 min Scan# 616
Delta R.T. 0.00 min
Lab File: 356198.D
Acq: 13 Nov 2019 14:00

Tgt Ion: 63 Resp: 10799

Ion	Ratio	Lower	Upper
63	100		
65	28.9	11.7	51.7
83	13.7	0.0	32.3

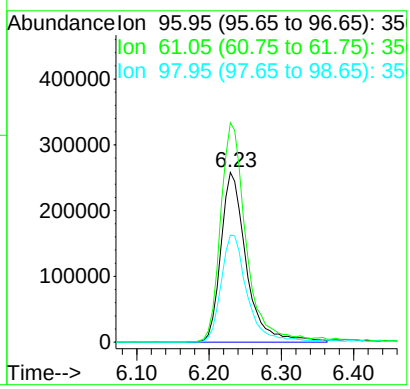


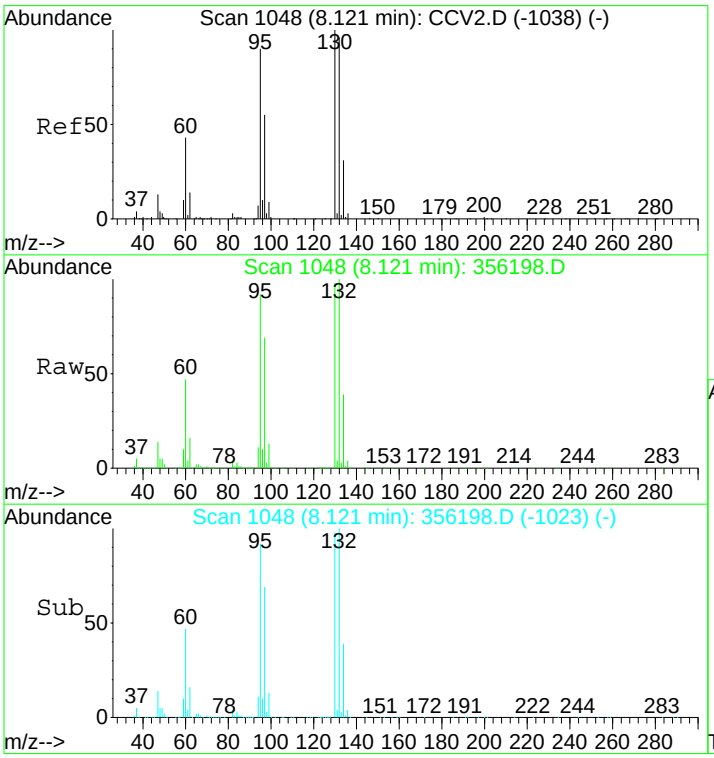


#32
c12dichlorte
Concen: 0.05 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356198.D
Acq: 13 Nov 2019 14:00

Tgt Ion: 96 Resp: 631099

Ion	Ratio	Lower	Upper
96	100		
61	130.7	128.4	168.4
98	64.9	44.3	84.3

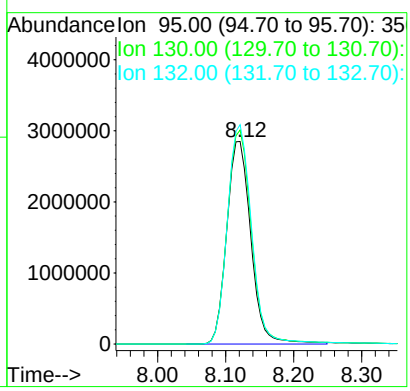


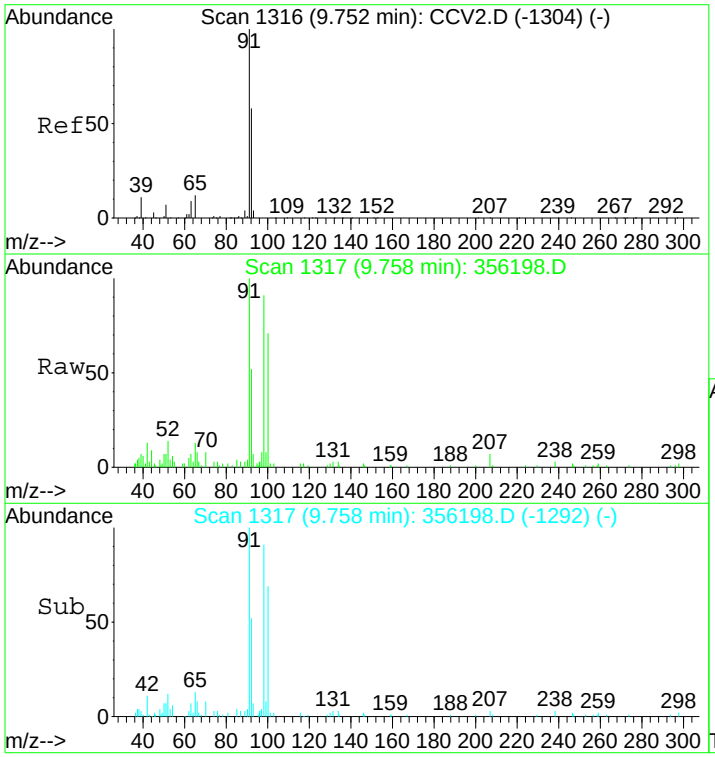


#49
trichloroete
Concen: 0.57 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356198.D
Acq: 13 Nov 2019 14:00

Tgt Ion: 95 Resp: 7054387

Ion	Ratio	Lower	Upper
95	100		
130	105.9	94.7	134.7
132	108.0	91.8	131.8

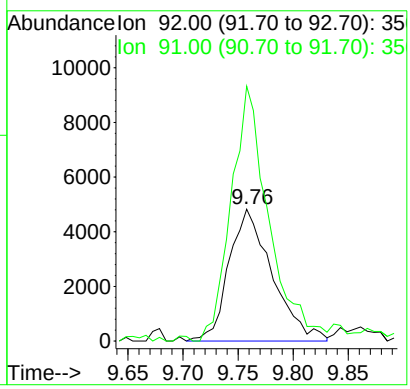


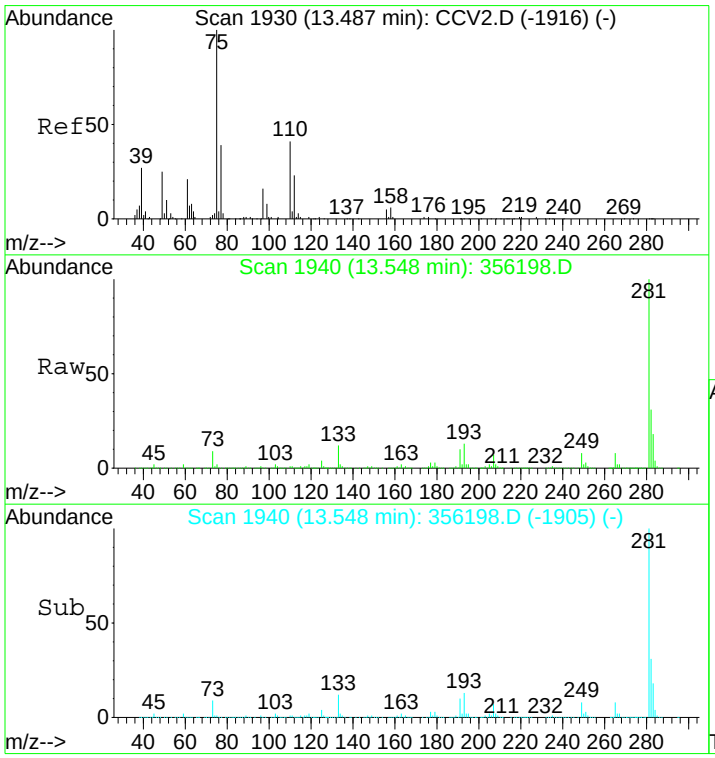


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.76 min Scan# 1317
Delta R.T. 0.00 min
Lab File: 356198.D
Acq: 13 Nov 2019 14:00

Tgt Ion: 92 Resp: 13216

Ion	Ratio	Lower	Upper
92	100		
91	177.3	148.0	188.0

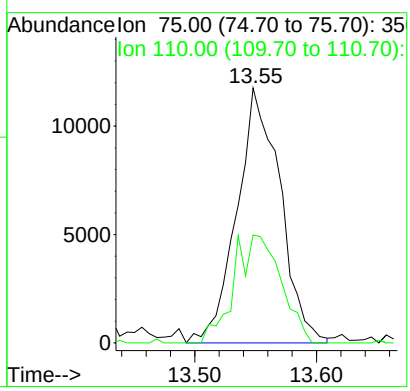




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1940
Delta R.T. 0.06 min
Lab File: 356198.D
Acq: 13 Nov 2019 14:00

Tgt Ion: 75 Resp: 29111

Ion	Ratio	Lower	Upper
75	100		
110	45.9	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356199.D Vial: 42
Acq On : 13 Nov 2019 14:29 Operator: RLD-DGS
Sample : 166498,356199, Inst : VMS4
Misc : 5.98g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 14:49:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	761640	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	607916	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	345419	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	200344	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	43103	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	767696	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	274540	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.06	50	1564	N.D.	
4) VinylChlorid	2.21	62	18553	0.0016 mg/kg	99
5) Bromomethane	2.69	94	1474	Below Cal #	71
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	13026	0.0015 mg/kg	92
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.07	43	15611	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.21	76	2469	N.D.	
18) allylchloride	4.50	41	1793	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	23141	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.97	96	2886	N.D.	
23) tbutylalcohol	4.79	59	13650	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.32	57	8643	N.D.	
26) 11dichlorota	5.49	63	15101	0.0008 mg/kg	93
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.20	77	7152	0.0005 mg/kg#	1
32) c12dichlorte	6.23	96	924024	0.0829 mg/kg	89
33) 2Butanone	6.22	72	7531	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.63	42	1574	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356199.D Vial: 42
Acq On : 13 Nov 2019 14:29 Operator: RLD-DGS
Sample : 166498,356199, Inst : VMS4
Misc : 5.98g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 14:49:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.33	78	2742	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	10576373	1.0438 mg/kg	92
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	3801	N.D.	
61)	Toluene	9.76	92	13666	0.0005 mg/kg	92
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.32	83	3331	0.0005 mg/kg#	33
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.60	91	1556	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.76	91	1351	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	13.54	83	1657	N.D.	
85)	123Triclproa	13.55	75	30540	0.0021 mg/kg#	54
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.60	91	1128	N.D.	
88)	2chlorotolue	13.60	91	1128	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.43	105	1477	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.43	91	1503	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356199.D Vial: 42
Acq On : 13 Nov 2019 14:29 Operator: RLD-DGS
Sample : 166498,356199, Inst : VMS4
Misc : 5.98g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 14:49:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	1975	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

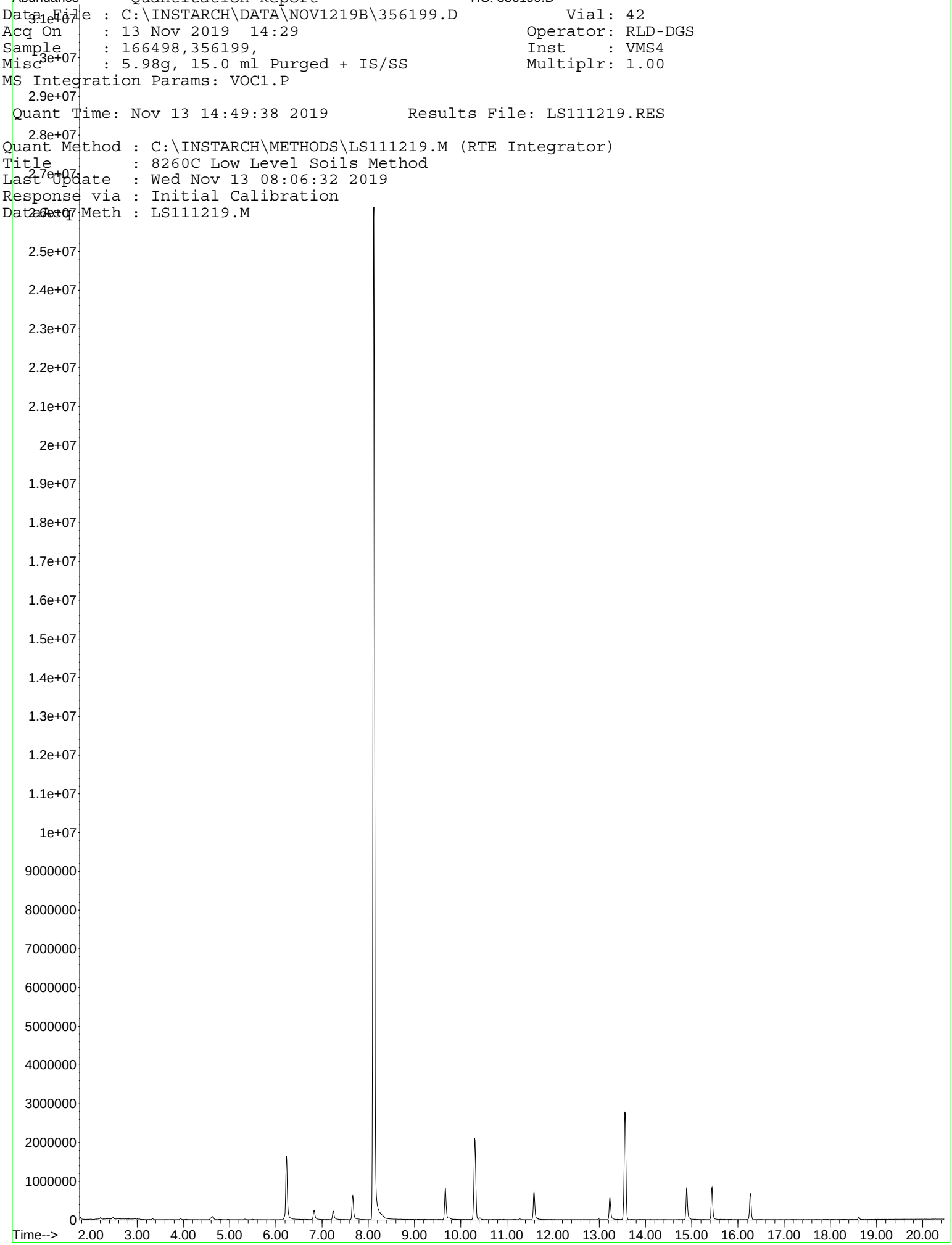
(#) = qualifier out of range (m) = manual integration

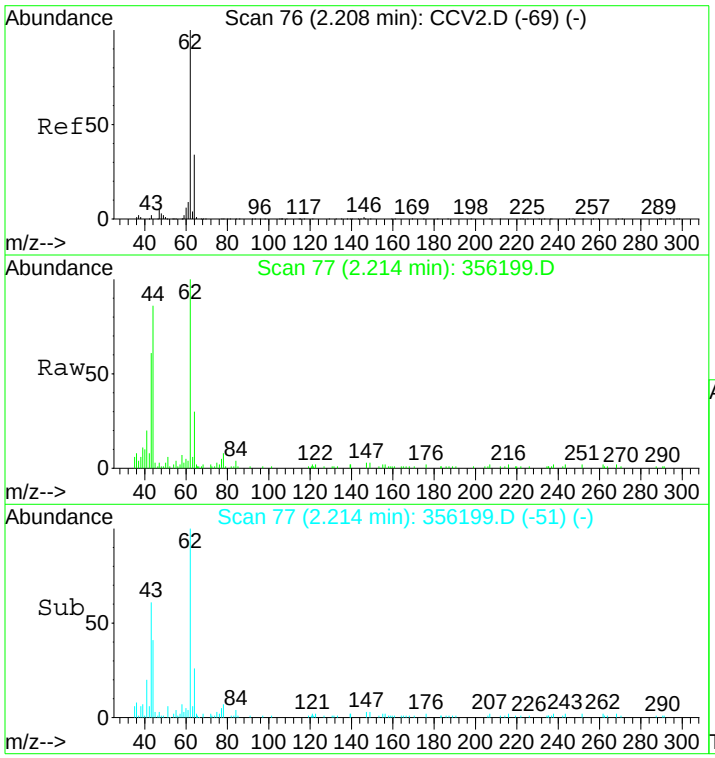
Abundance Quantitation Report TIC: 356199.D

Data File : C:\INSTARCH\DATA\NOV1219B\356199.D Vial: 42
Acq On : 13 Nov 2019 14:29 Operator: RLD-DGS
Sample : 166498,356199, Inst : VMS4
Misc : 5.98g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 14:49:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
Data Meth : LS111219.M

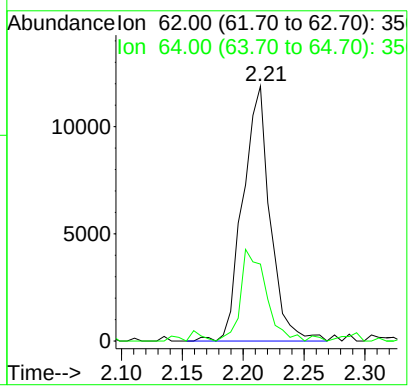


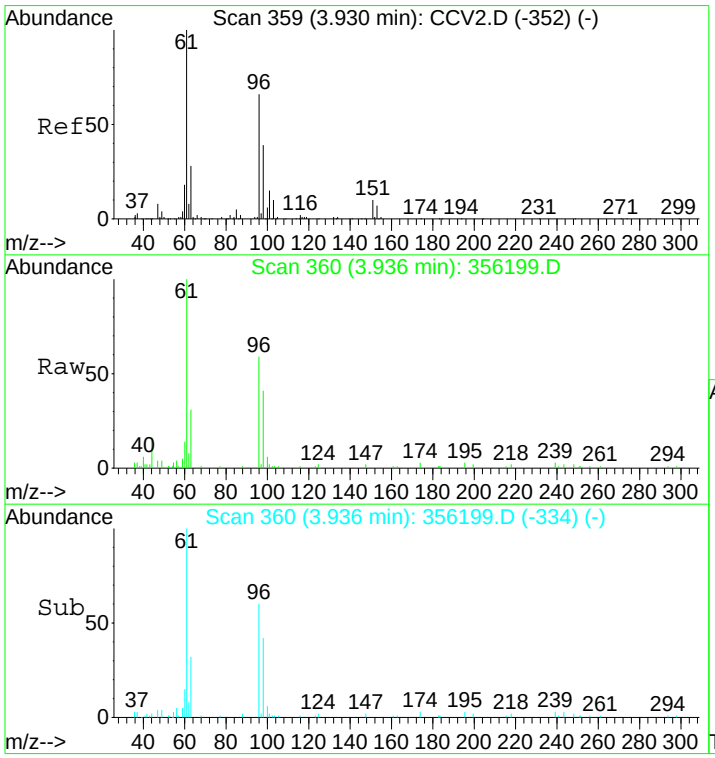


#4
VinylChlorid
Concen: 0.00 mg/kg
RT: 2.21 min Scan# 77
Delta R.T. 0.01 min
Lab File: 356199.D
Acq: 13 Nov 2019 14:29

Tgt Ion: 62 Resp: 18553

Ion	Ratio	Lower	Upper
62	100		
64	33.3	12.9	52.9

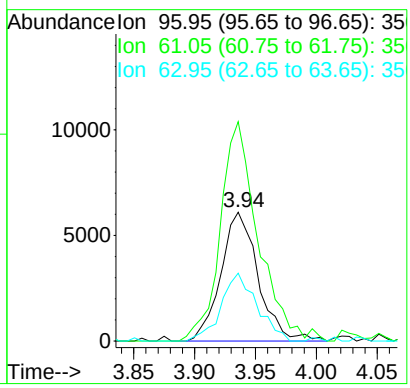


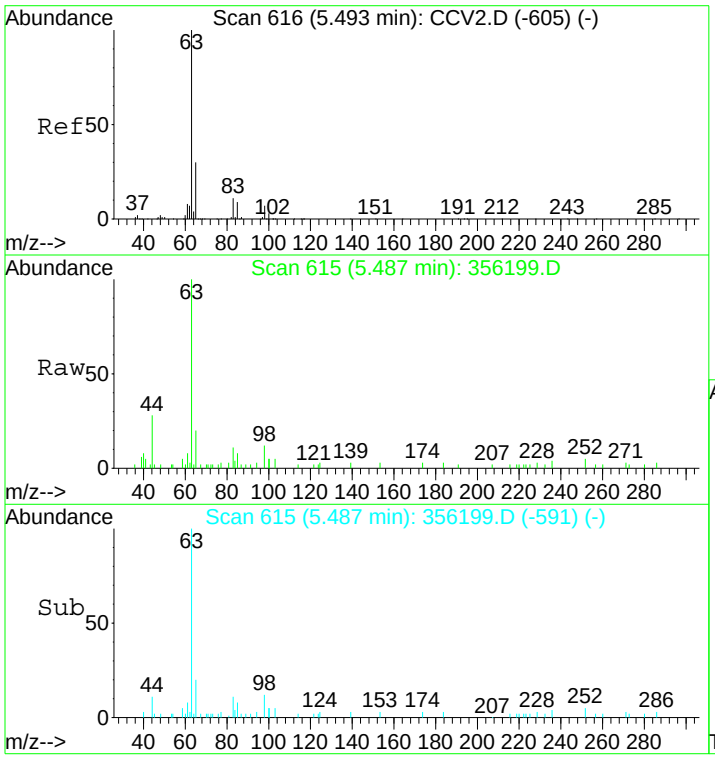


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356199.D
Acq: 13 Nov 2019 14:29

Tgt Ion: 96 Resp: 13026

Ion	Ratio	Lower	Upper
96	100		
61	172.1	139.7	179.7
63	50.5	29.4	69.4

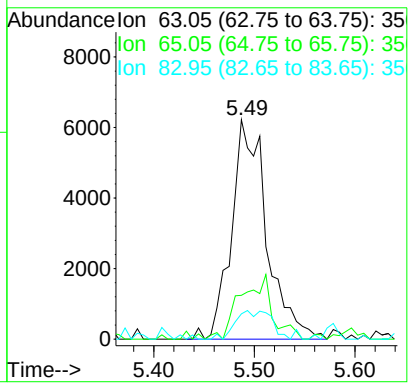


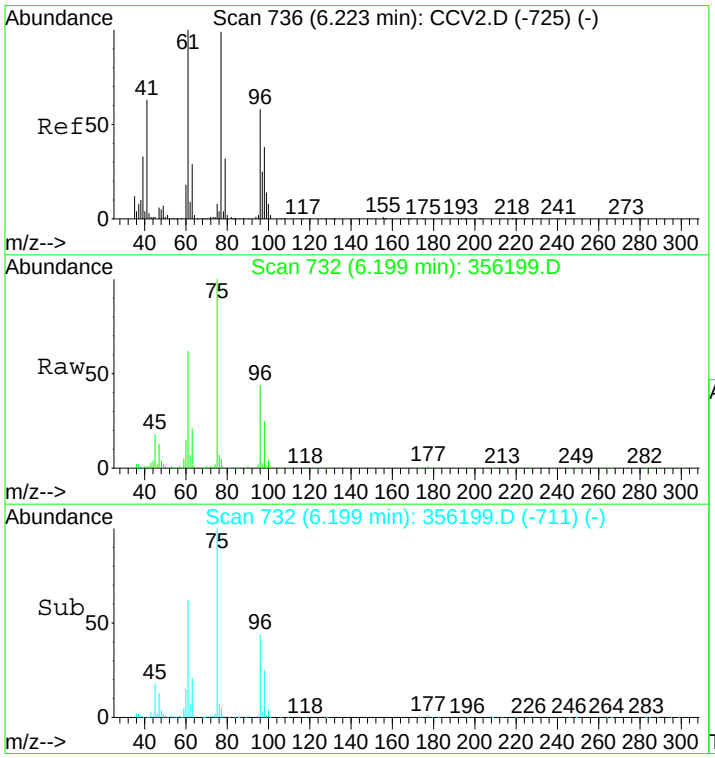


#26
11dichlorota
Concen: 0.00 mg/kg
RT: 5.49 min Scan# 615
Delta R.T. -0.01 min
Lab File: 356199.D
Acq: 13 Nov 2019 14:29

Tgt Ion: 63 Resp: 15101

Ion	Ratio	Lower	Upper
63	100		
65	26.7	11.7	51.7
83	13.2	0.0	32.3

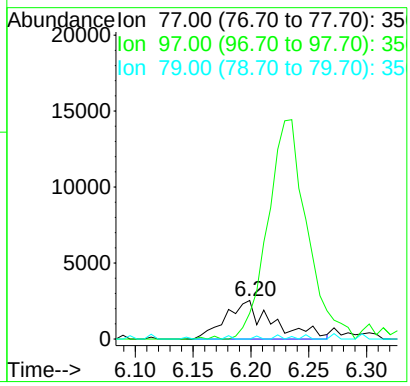




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.20 min Scan# 732
Delta R.T. -0.02 min
Lab File: 356199.D
Acq: 13 Nov 2019 14:29

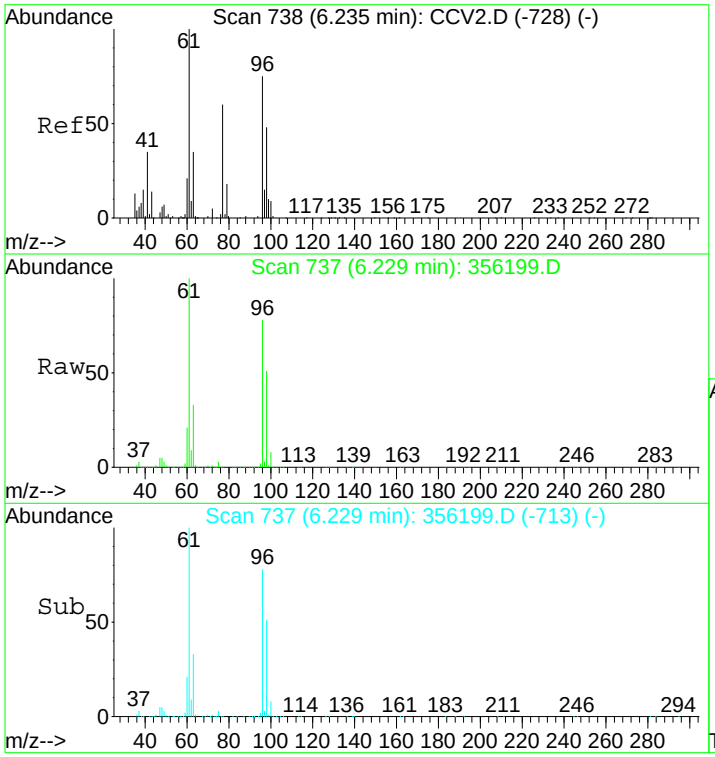
Tgt Ion: 77 Resp: 7152

Ion	Ratio	Lower	Upper
77	100		
97	474.4	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

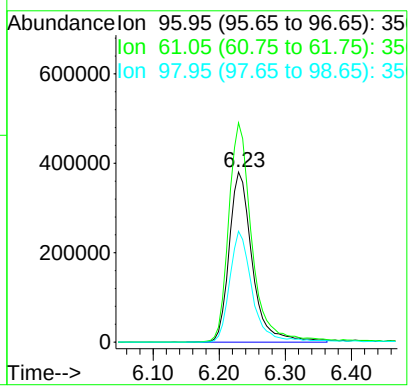
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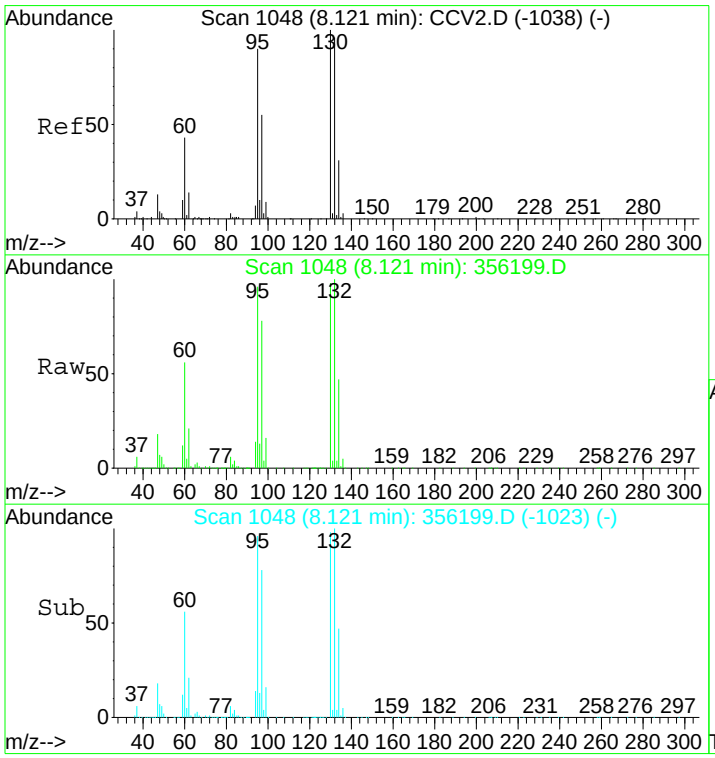


#32
c12dichlorte
Concen: 0.08 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356199.D
Acq: 13 Nov 2019 14:29

Tgt Ion: 96 Resp: 924024

Ion	Ratio	Lower	Upper
96	100		
61	129.6	128.4	168.4
98	63.7	44.3	84.3

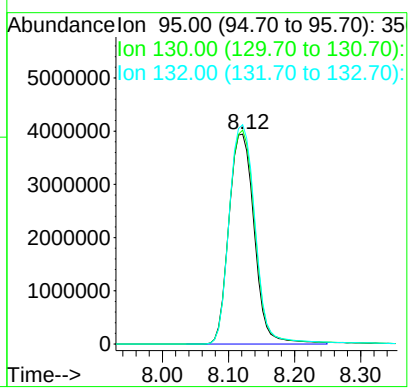


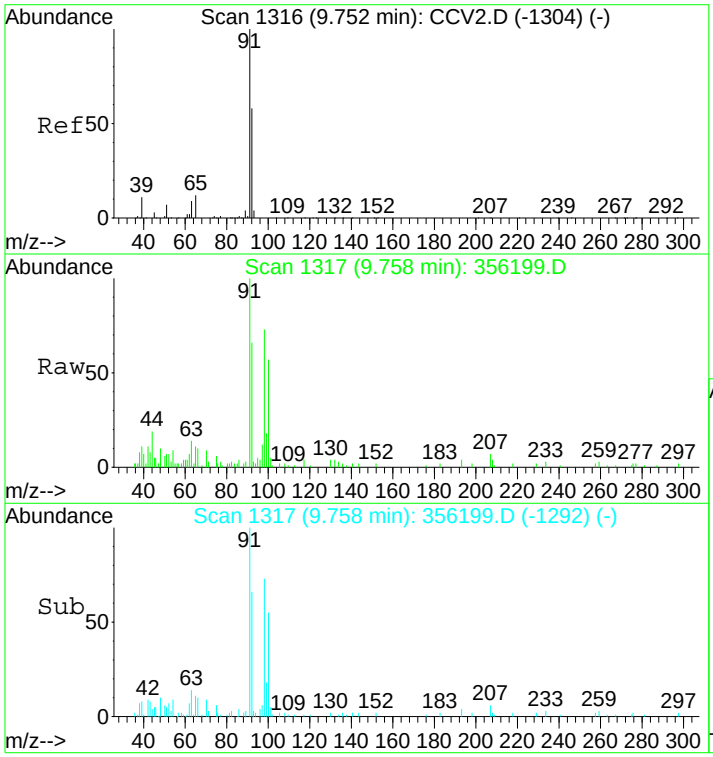


#49
trichloroete
Concen: 1.04 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356199.D
Acq: 13 Nov 2019 14:29

Tgt Ion: 95 Resp:10576373

Ion	Ratio	Lower	Upper
95	100		
130	104.0	94.7	134.7
132	106.3	91.8	131.8

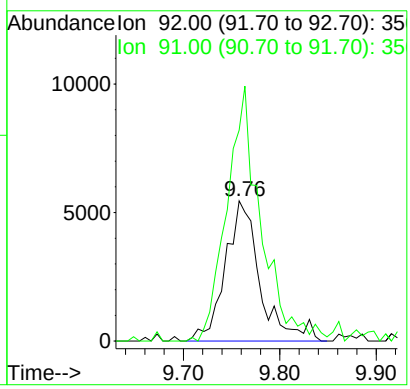


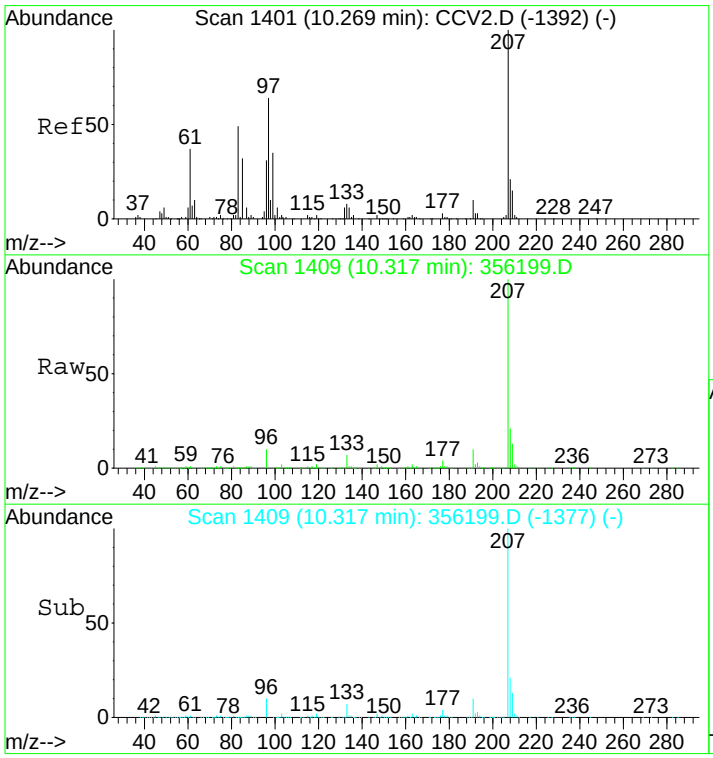


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.76 min Scan# 1317
Delta R.T. 0.00 min
Lab File: 356199.D
Acq: 13 Nov 2019 14:29

Tgt Ion: 92 Resp: 13666

Ion	Ratio	Lower	Upper
92	100		
91	178.4	148.0	188.0

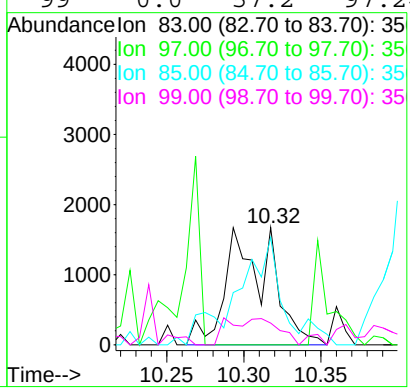




#64
112Triclotha
Concen: 0.00 mg/kg
RT: 10.32 min Scan# 1409
Delta R.T. 0.04 min
Lab File: 356199.D
Acq: 13 Nov 2019 14:29

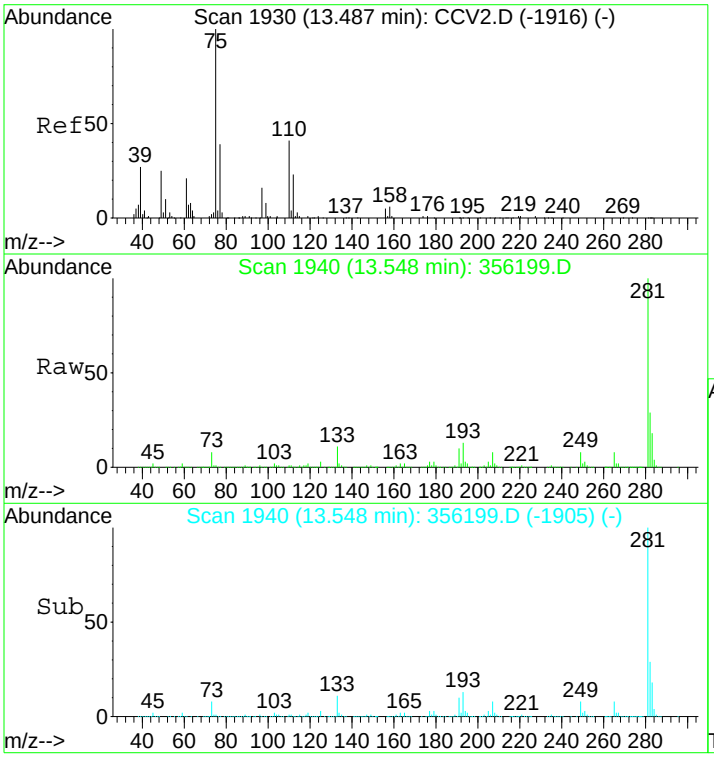
Tgt Ion: 83 Resp: 3331

Ion	Ratio	Lower	Upper
83	100		
97	31.7	103.7	143.7#
85	78.2	46.3	86.3
99	0.0	57.2	97.2#



Negative Library Identification

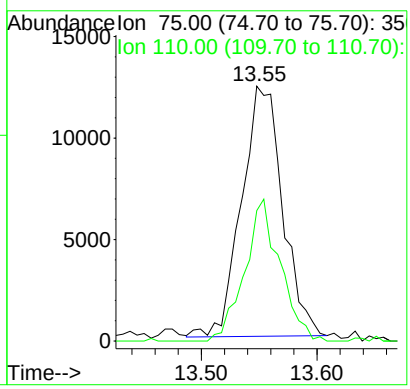
[redacted]



#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1940
Delta R.T. 0.06 min
Lab File: 356199.D
Acq: 13 Nov 2019 14:29

Tgt Ion: 75 Resp: 30540

Ion	Ratio	Lower	Upper
75	100		
110	48.8	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356200.D Vial: 43
Acq On : 13 Nov 2019 14:58 Operator: RLD-DGS
Sample : 166498,356200, Inst : VMS4
Misc : 6.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 15:18:39 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	838962	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	668116	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	374267	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	211730	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	47647	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	847011	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	300352	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.07	50	1406	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.07	43	13077	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.19	76	2203	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	29404	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.81	59	7676	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.32	57	3224	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.18	59	1369	N.D.	
31) 22dichloropr	6.18	77	2492	N.D.	
32) c12dichlorte	6.24	96	376300	0.0307 mg/kg#	88
33) 2Butanone	6.24	72	3682	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356200.D Vial: 43
Acq On : 13 Nov 2019 14:58 Operator: RLD-DGS
Sample : 166498,356200, Inst : VMS4
Misc : 6.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 15:18:39 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	1336	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	1816	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	2878071	0.2579 mg/kg	97
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	6017	N.D.	
61)	Toluene	9.76	92	8166	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.32	83	1140	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.59	91	1846	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.79	91	1601	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.44	75	1147	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1499	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.44	91	1580	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356200.D Vial: 43
Acq On : 13 Nov 2019 14:58 Operator: RLD-DGS
Sample : 166498,356200, Inst : VMS4
Misc : 6.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 15:18:39 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	1724	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

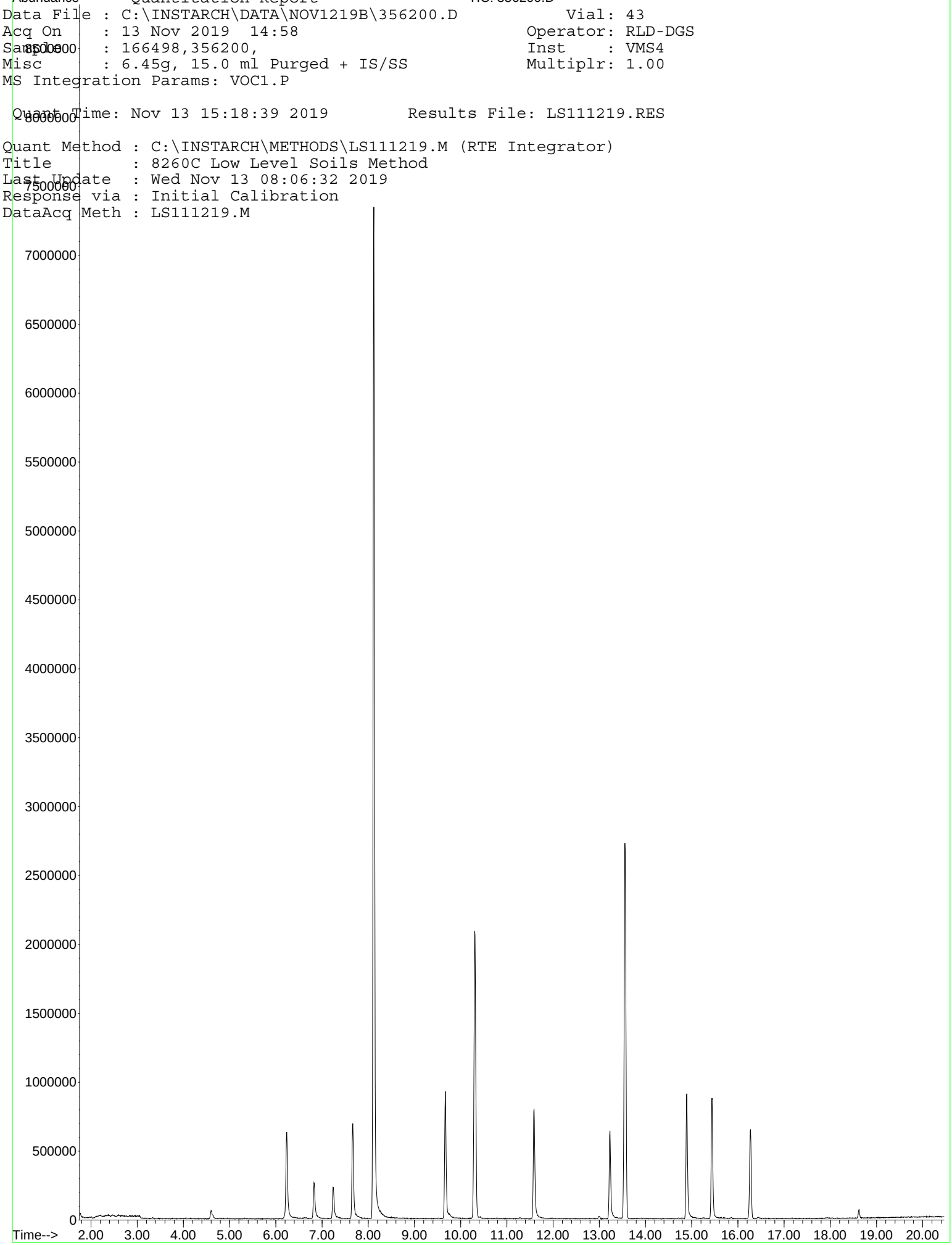
(#) = qualifier out of range (m) = manual integration

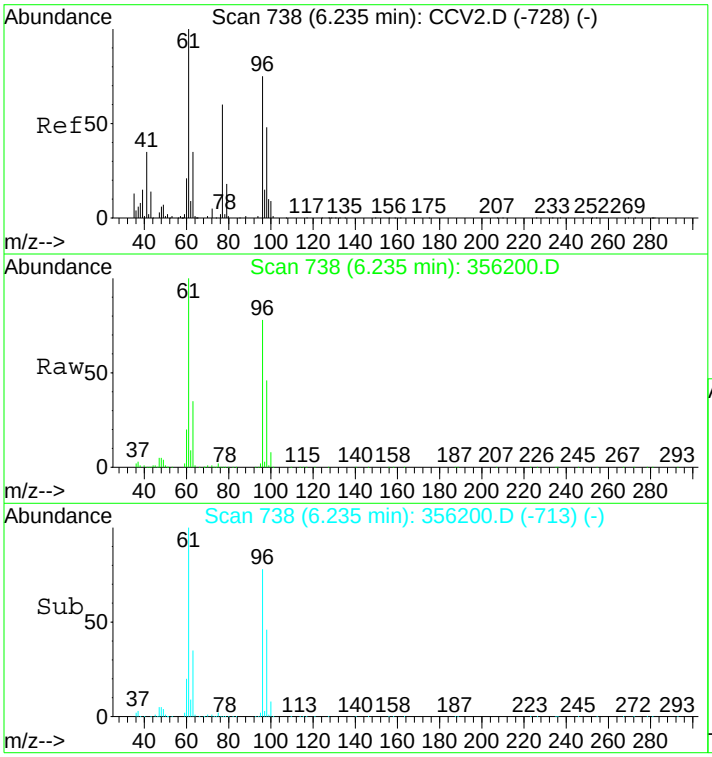
Abundance Quantitation Report TIC: 356200.D

Data File : C:\INSTARCH\DATA\NOV1219B\356200.D Vial: 43
Acq On : 13 Nov 2019 14:58 Operator: RLD-DGS
Sample : 166498,356200, Inst : VMS4
Misc : 6.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 15:18:39 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

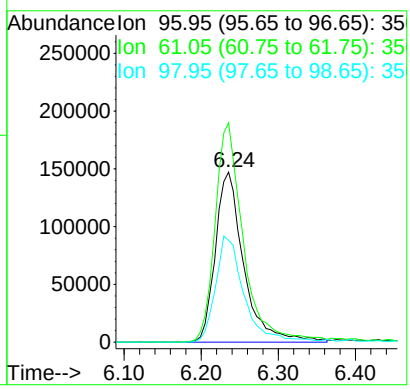


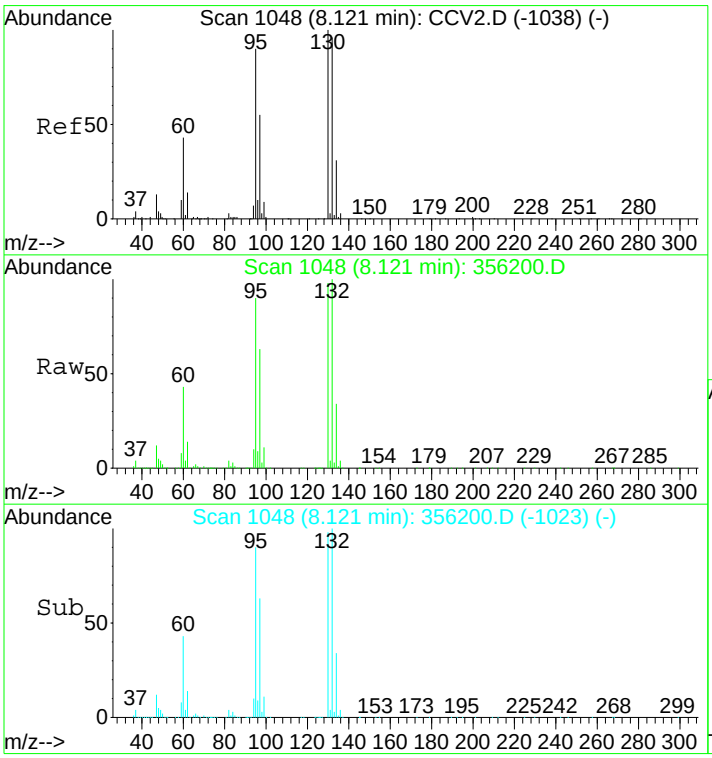


#32
c12dichlorte
Concen: 0.03 mg/kg
RT: 6.24 min Scan# 738
Delta R.T. 0.00 min
Lab File: 356200.D
Acq: 13 Nov 2019 14:58

Tgt Ion: 96 Resp: 376300

Ion	Ratio	Lower	Upper
96	100		
61	128.2	128.4	168.4#
98	62.4	44.3	84.3

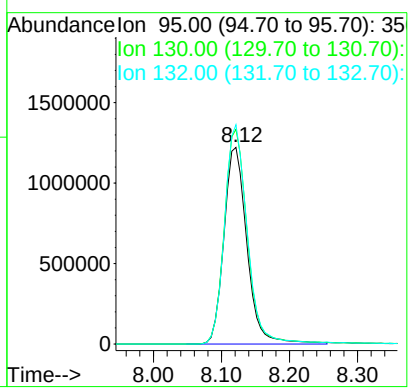




#49
trichloroete
Concen: 0.26 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356200.D
Acq: 13 Nov 2019 14:58

Tgt Ion: 95 Resp: 2878071

Ion	Ratio	Lower	Upper
95	100		
130	109.4	94.7	134.7
132	109.9	91.8	131.8



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356201.D Vial: 44
Acq On : 13 Nov 2019 15:27 Operator: RLD-DGS
Sample : 166498,356201, Inst : VMS4
Misc : 6.11g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 15:47:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	855098	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	678298	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.90	152	378733	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	221751	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	48789	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	850309	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	304828	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2176	N.D.	
3) Chloromethan	2.06	50	2513	N.D.	
4) VinylChlorid	2.21	62	5092	N.D.	
5) Bromomethane	2.68	94	1120	Below Cal #	1
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	20554	0.0021 mg/kg	96
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	15332	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.19	76	2625	N.D.	
18) allylchloride	4.49	41	1890	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	25621	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.97	96	5912	0.0005 mg/kg	91
23) tbutylalcohol	4.79	59	20470	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	9572	N.D.	
26) 11dichlorota	5.49	63	5901	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.19	77	8741	0.0006 mg/kg#	1
32) c12dichlorte	6.23	96	2789616	0.2230 mg/kg#	88
33) 2Butanone	6.23	72	21589	0.0229 mg/kg#	46
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356201.D Vial: 44
Acq On : 13 Nov 2019 15:27 Operator: RLD-DGS
Sample : 166498,356201, Inst : VMS4
Misc : 6.11g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 15:47:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	9761	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	16295816	1.4325 mg/kg	90
50)	methylcyclohexane	8.36	83	1709	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.52	43	3142	N.D.	
61)	Toluene	9.76	92	38416	0.0013 mg/kg	95
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	0.00	83	0	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.53	43	1660	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.60	91	1131	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	36670	0.0024 mg/kg	61
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.57	91	1490	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1682	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.44	91	1837	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356201.D Vial: 44
Acq On : 13 Nov 2019 15:27 Operator: RLD-DGS
Sample : 166498,356201, Inst : VMS4
Misc : 6.11g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 15:47:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	2648	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

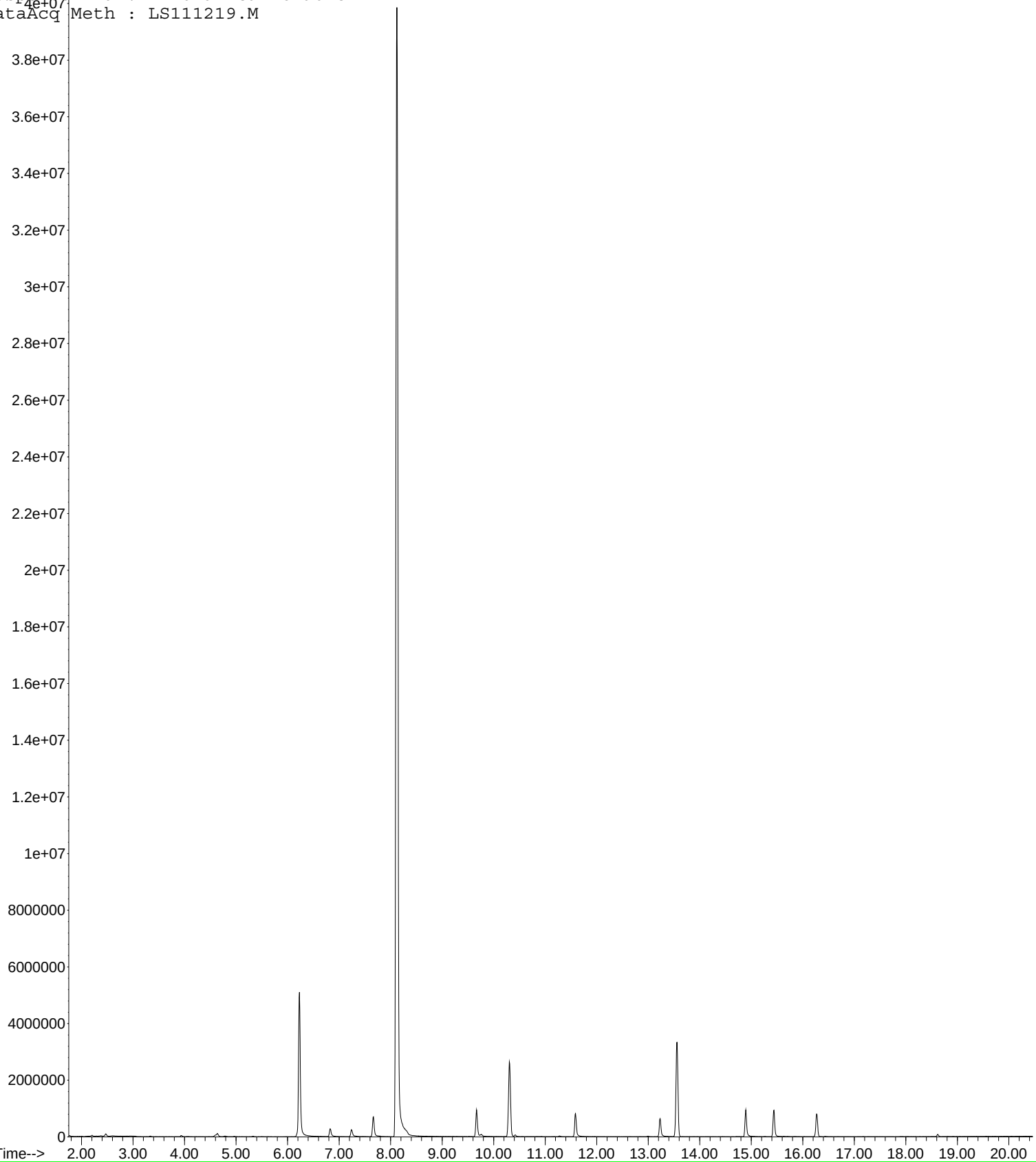
(#) = qualifier out of range (m) = manual integration

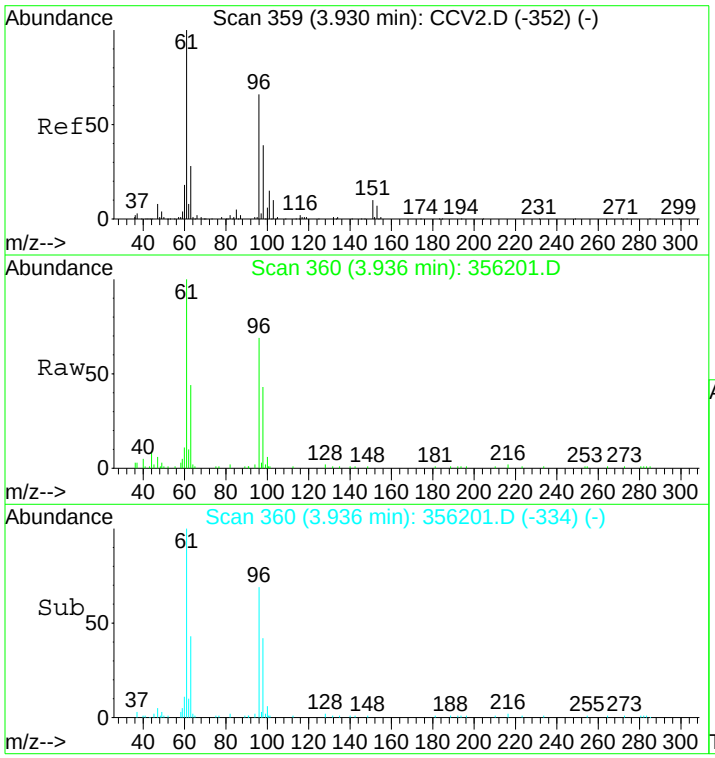
Abundance Quantitation Report TIC: 356201.D

Data File : C:\INSTARCH\DATA\NOV1219B\356201.D Vial: 44
Acq On : 13 Nov 2019 15:27 Operator: RLD-DGS
Sample : 166498,356201, Inst : VMS4
Misc : 6.11g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 15:47:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

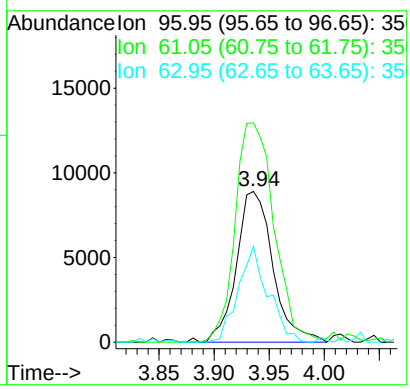


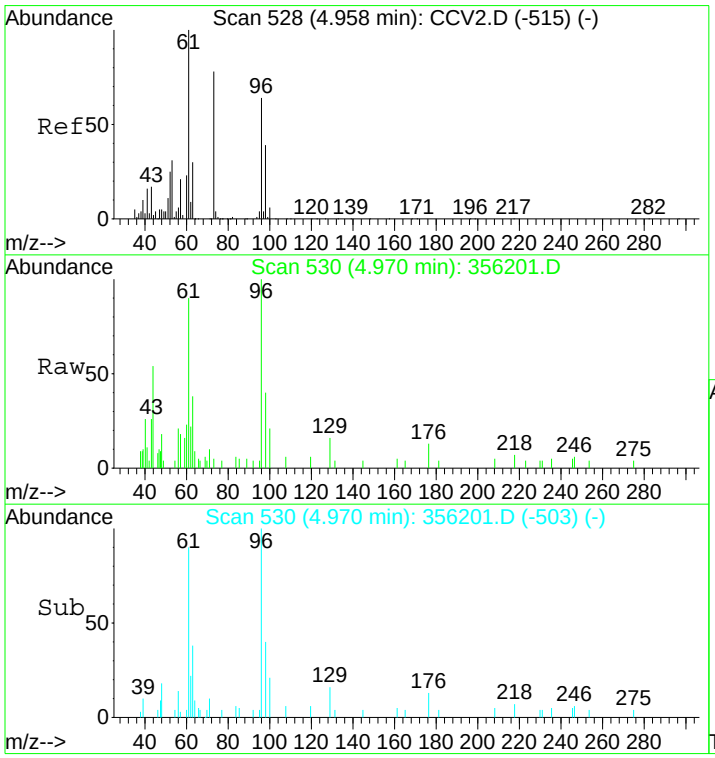


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356201.D
Acq: 13 Nov 2019 15:27

Tgt Ion: 96 Resp: 20554

Ion	Ratio	Lower	Upper
96	100		
61	154.7	139.7	179.7
63	52.2	29.4	69.4

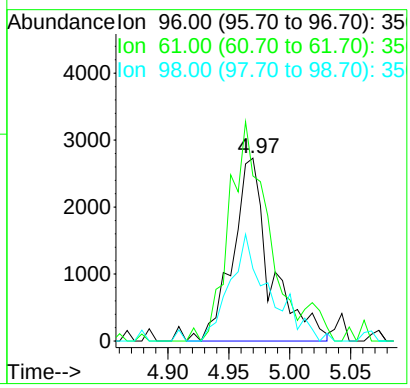


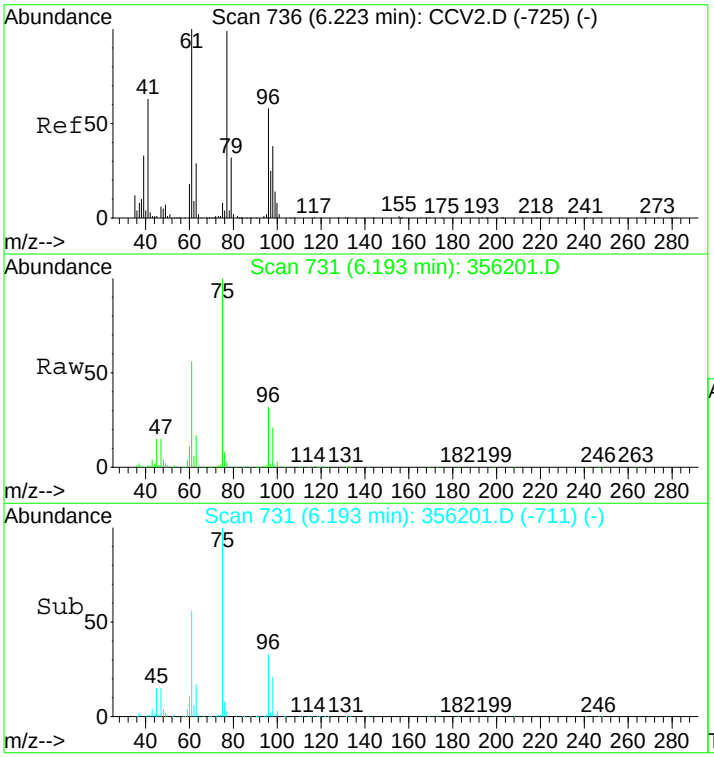


#22
t12dichlorte
Concen: 0.00 mg/kg
RT: 4.97 min Scan# 530
Delta R.T. 0.01 min
Lab File: 356201.D
Acq: 13 Nov 2019 15:27

Tgt Ion: 96 Resp: 5912

Ion	Ratio	Lower	Upper
96	100		
61	129.8	123.7	163.7
98	61.3	44.9	84.9

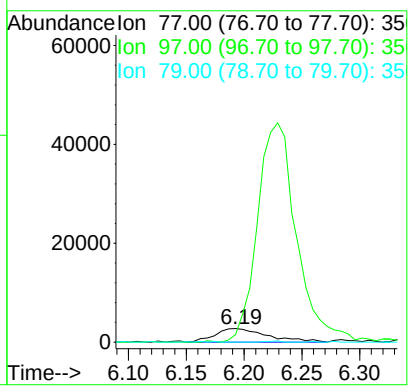




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.19 min Scan# 731
Delta R.T. -0.03 min
Lab File: 356201.D
Acq: 13 Nov 2019 15:27

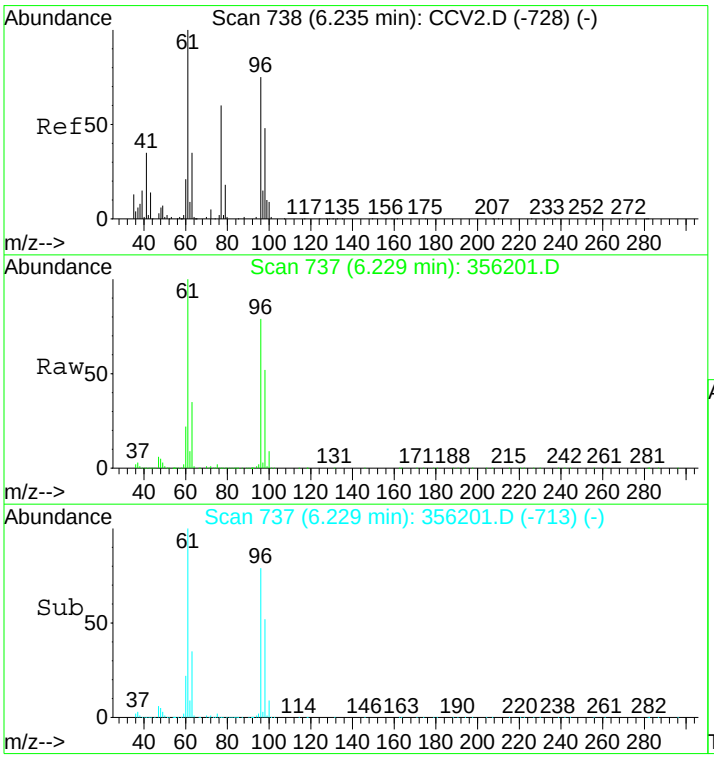
Tgt Ion: 77 Resp: 8741

Ion	Ratio	Lower	Upper
77	100		
97	1203.4	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

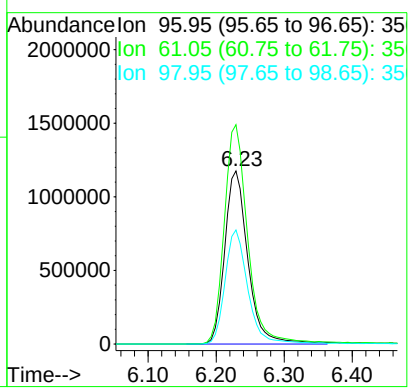
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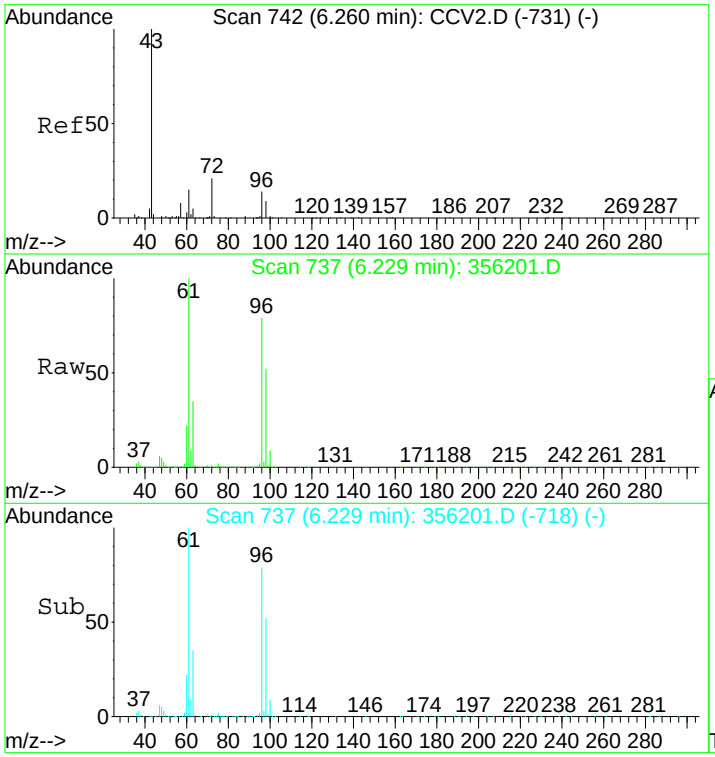


#32
c12dichlorte
Concen: 0.22 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356201.D
Acq: 13 Nov 2019 15:27

Tgt Ion: 96 Resp: 2789616

Ion	Ratio	Lower	Upper
96	100		
61	127.7	128.4	168.4#
98	64.8	44.3	84.3

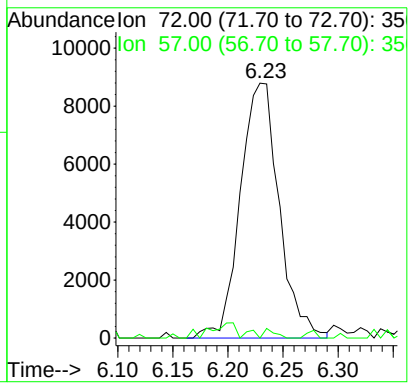




#33
2Butanone
Concen: 0.02 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.04 min
Lab File: 356201.D
Acq: 13 Nov 2019 15:27

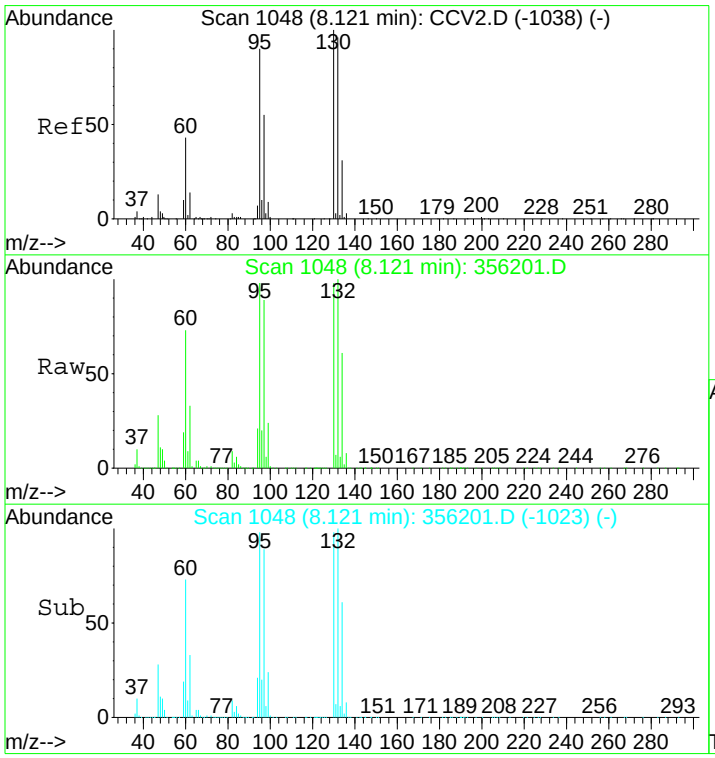
Tgt Ion: 72 Resp: 21589

Ion	Ratio	Lower	Upper
72	100		
57	4.6	17.0	57.0#



Negative Library Identification

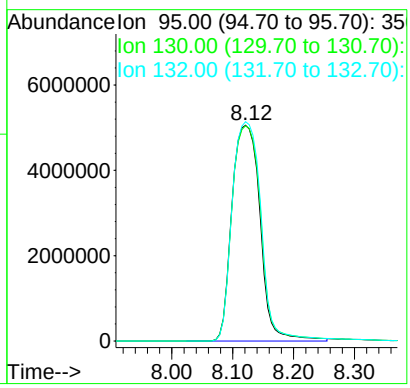
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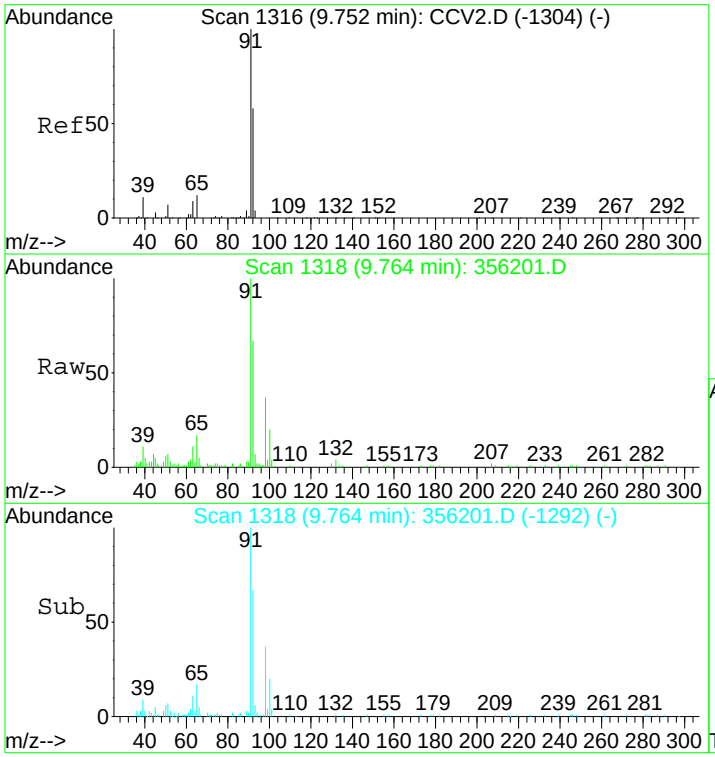


#49
trichloroete
Concen: 1.43 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356201.D
Acq: 13 Nov 2019 15:27

Tgt Ion: 95 Resp:16295816

Ion	Ratio	Lower	Upper
95	100		
130	101.6	94.7	134.7
132	103.8	91.8	131.8

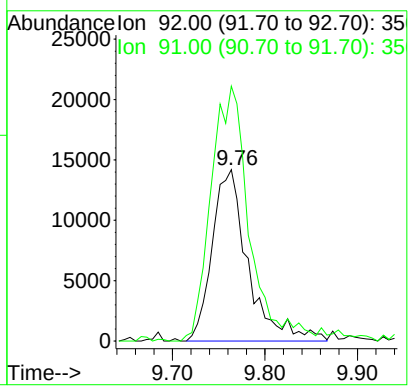


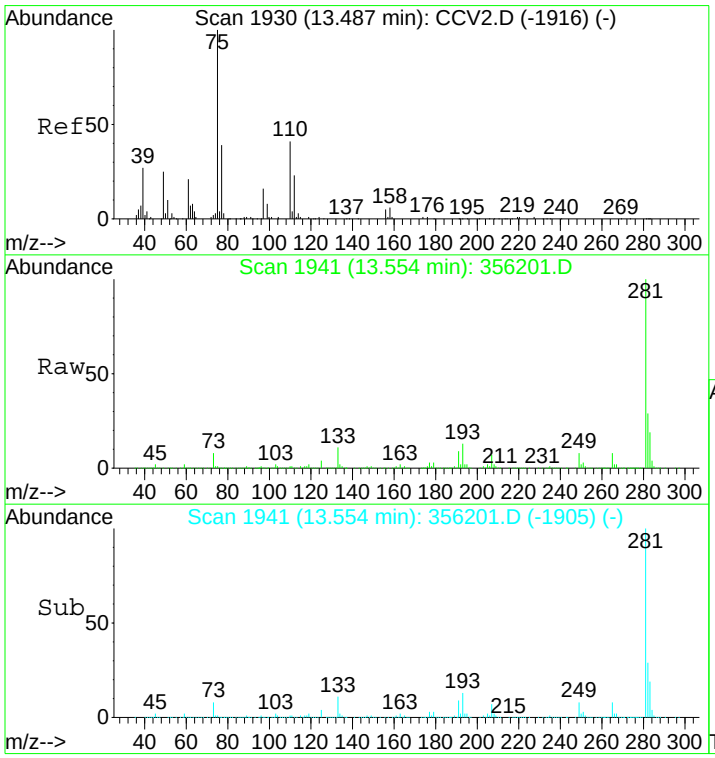


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.76 min Scan# 1318
Delta R.T. 0.01 min
Lab File: 356201.D
Acq: 13 Nov 2019 15:27

Tgt Ion: 92 Resp: 38416

Ion	Ratio	Lower	Upper
92	100		
91	161.0	148.0	188.0

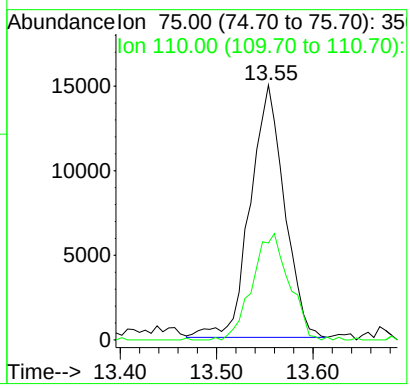




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356201.D
Acq: 13 Nov 2019 15:27

Tgt Ion: 75 Resp: 36670

Ion	Ratio	Lower	Upper
75	100		
110	45.5	5.6	45.6



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356202.D Vial: 45
Acq On : 13 Nov 2019 15:56 Operator: RLD-DGS
Sample : 166498,356202, Inst : VMS4
Misc : 6.28g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 16:17:27 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	779129	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	613299	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	342050	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	199383	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	40132	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %		
60) SURRd8Tolule	9.67	98	772851	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	272225	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	0.00	50	0	N.D.	
4) VinylChlorid	2.21	62	368662	0.0315 mg/kg	97
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	27627	0.0031 mg/kg	90
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	13657	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	2104	N.D.	
18) allylchloride	4.48	41	1159	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	22817	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.97	96	8034	0.0008 mg/kg#	83
23) tbutylalcohol	4.80	59	12589	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	7321	N.D.	
26) 11dichlorota	5.49	63	5173	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.20	77	5876	0.0004 mg/kg#	1
32) c12dichlorte	6.23	96	4034552	0.3539 mg/kg#	87
33) 2Butanone	6.23	72	32426	0.0378 mg/kg#	38
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.65	42	1494	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356202.D Vial: 45
Acq On : 13 Nov 2019 15:56 Operator: RLD-DGS
Sample : 166498,356202, Inst : VMS4
Misc : 6.28g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 16:17:27 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	8923	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	18726405	1.8067 mg/kg	90
50)	methylcyclohexane	8.29	83	2224	N.D.	
51)	12dicloropra	8.29	63	1005	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	4003	N.D.	
61)	Toluene	9.77	92	8555	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.32	83	2780	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	0.00	91	0	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	11.97	106	1110	N.D.	
76)	o-Xylene	12.49	106	2061	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	13.02	105	5106	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.44	75	1281	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.54	91	1447	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1133	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.45	91	2038	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356202.D Vial: 45
Acq On : 13 Nov 2019 15:56 Operator: RLD-DGS
Sample : 166498,356202, Inst : VMS4
Misc : 6.28g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 16:17:27 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	2485	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

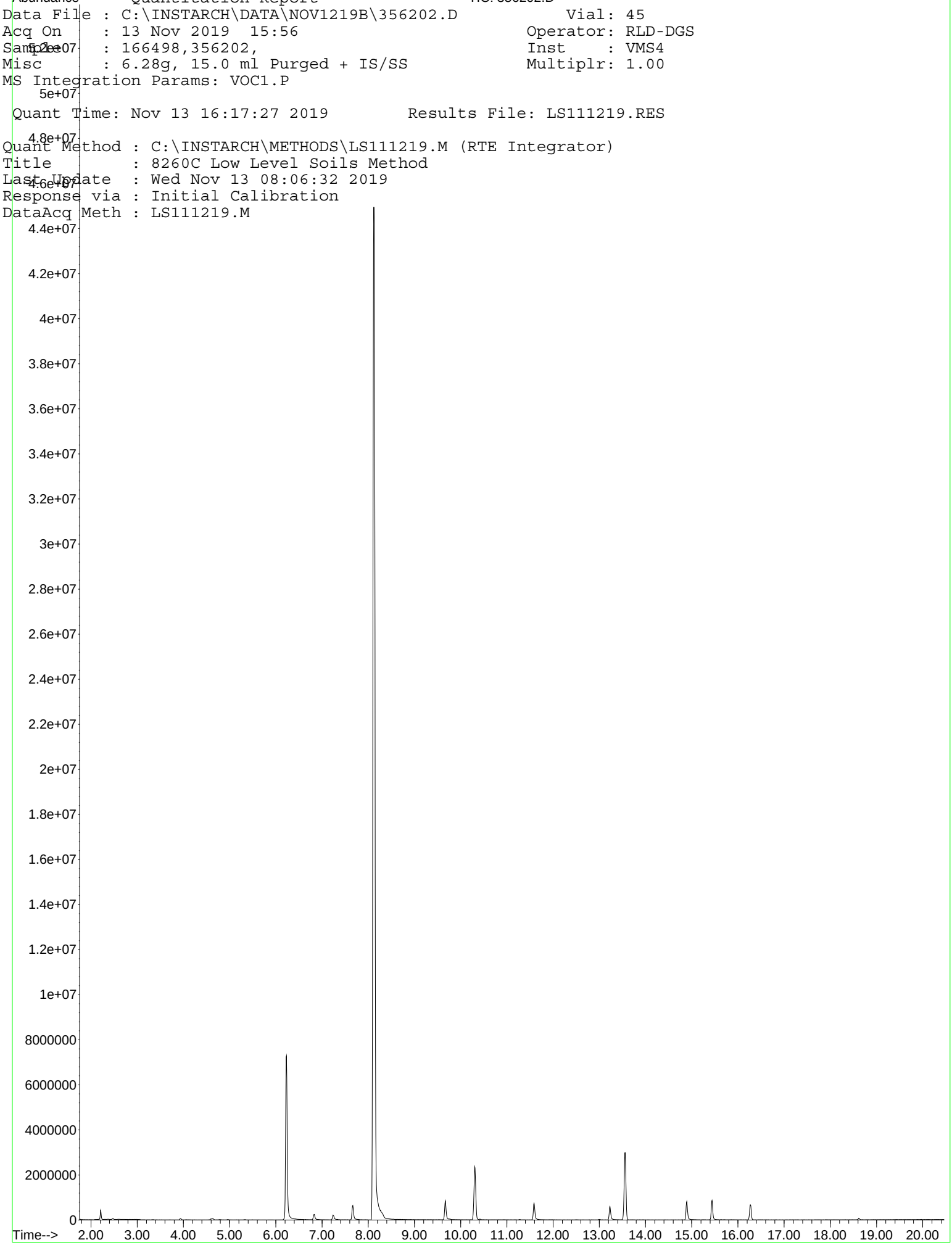
(#) = qualifier out of range (m) = manual integration

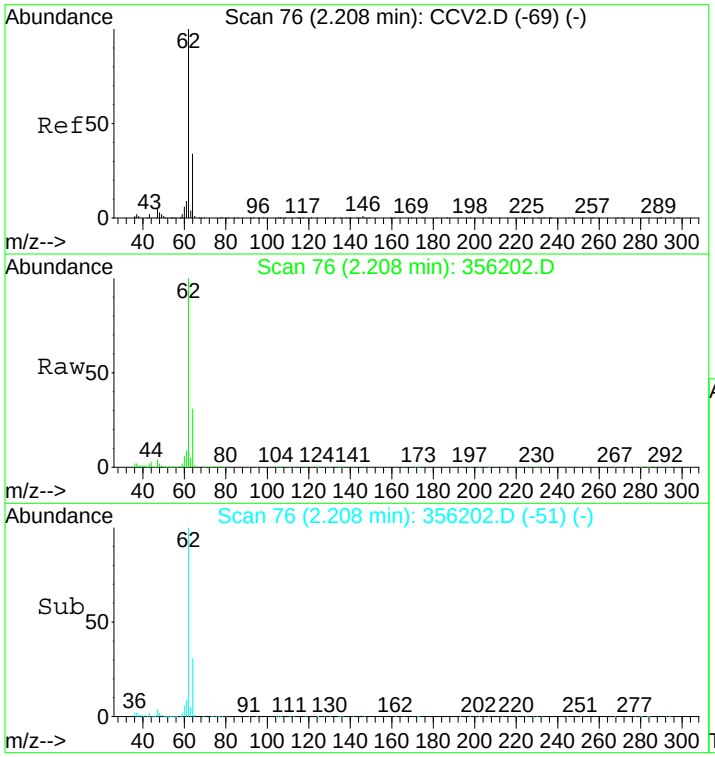
Abundance Quantitation Report TIC: 356202.D

Data File : C:\INSTARCH\DATA\NOV1219B\356202.D Vial: 45
Acq On : 13 Nov 2019 15:56 Operator: RLD-DGS
Sample : 166498,356202, Inst : VMS4
Misc : 6.28g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 16:17:27 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

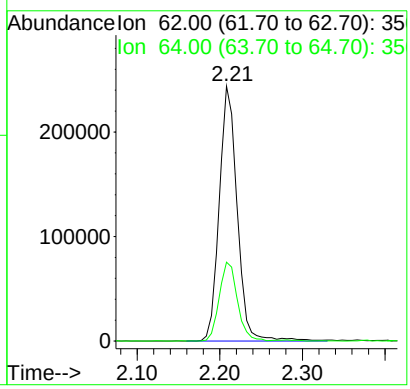


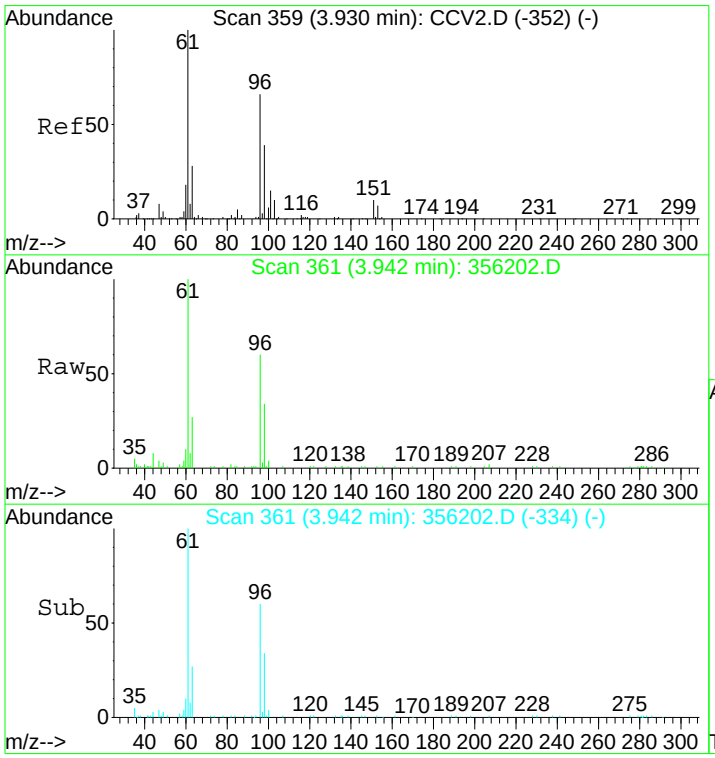


#4
VinylChlorid
Concen: 0.03 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. 0.00 min
Lab File: 356202.D
Acq: 13 Nov 2019 15:56

Tgt Ion: 62 Resp: 368662

Ion	Ratio	Lower	Upper
62	100		
64	31.3	12.9	52.9

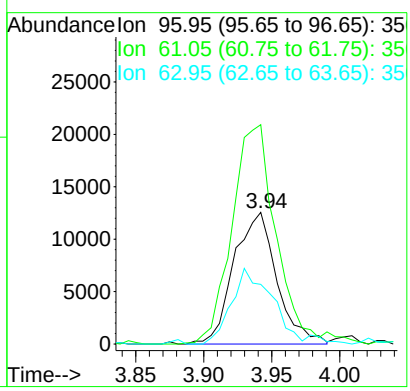


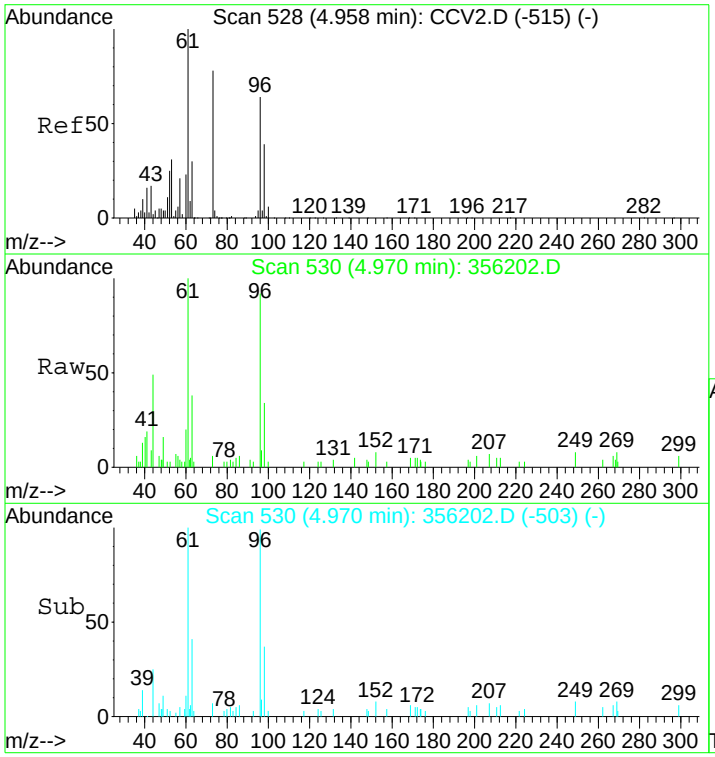


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 361
Delta R.T. 0.01 min
Lab File: 356202.D
Acq: 13 Nov 2019 15:56

Tgt Ion: 96 Resp: 27627

Ion	Ratio	Lower	Upper
96	100		
61	172.6	139.7	179.7
63	56.3	29.4	69.4

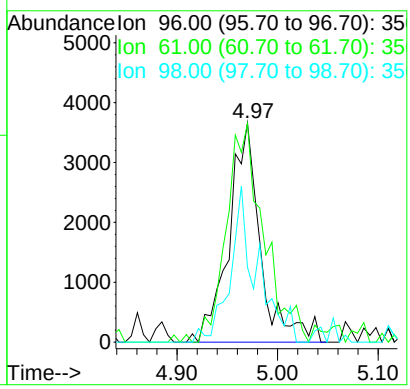


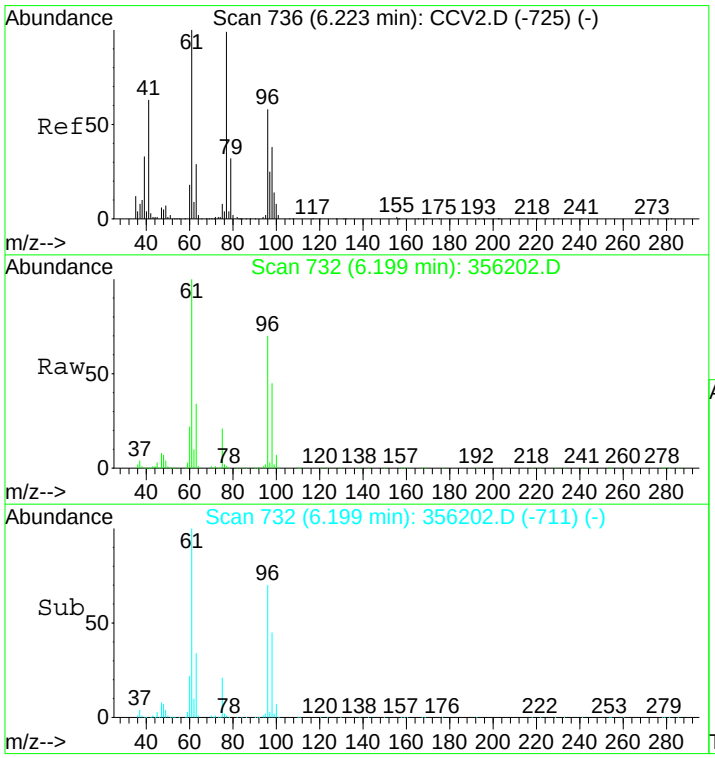


#22
t12dichlorte
Concen: 0.00 mg/kg
RT: 4.97 min Scan# 530
Delta R.T. 0.01 min
Lab File: 356202.D
Acq: 13 Nov 2019 15:56

Tgt Ion: 96 Resp: 8034

Ion	Ratio	Lower	Upper
96	100		
61	116.4	123.7	163.7#
98	60.4	44.9	84.9

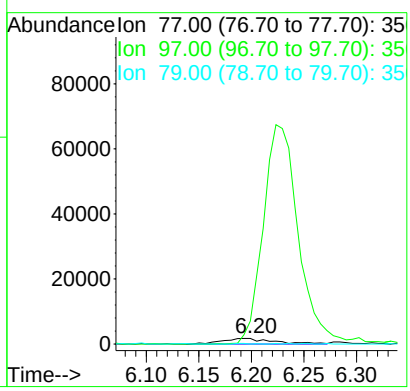




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.20 min Scan# 732
Delta R.T. -0.02 min
Lab File: 356202.D
Acq: 13 Nov 2019 15:56

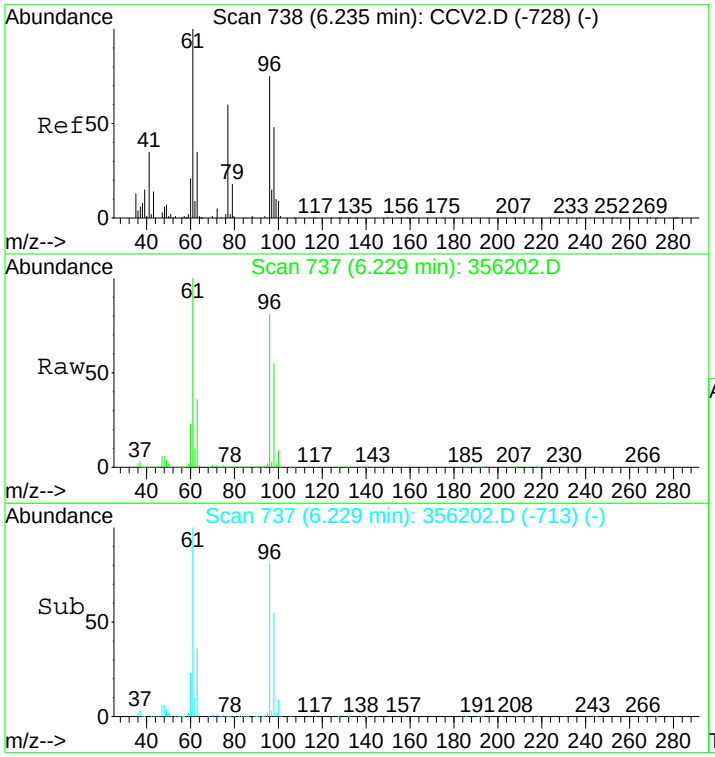
Tgt Ion: 77 Resp: 5876

Ion	Ratio	Lower	Upper
77	100		
97	2709.3	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

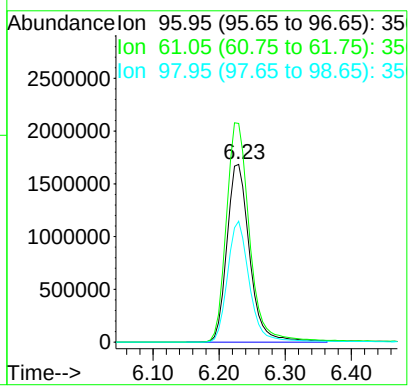
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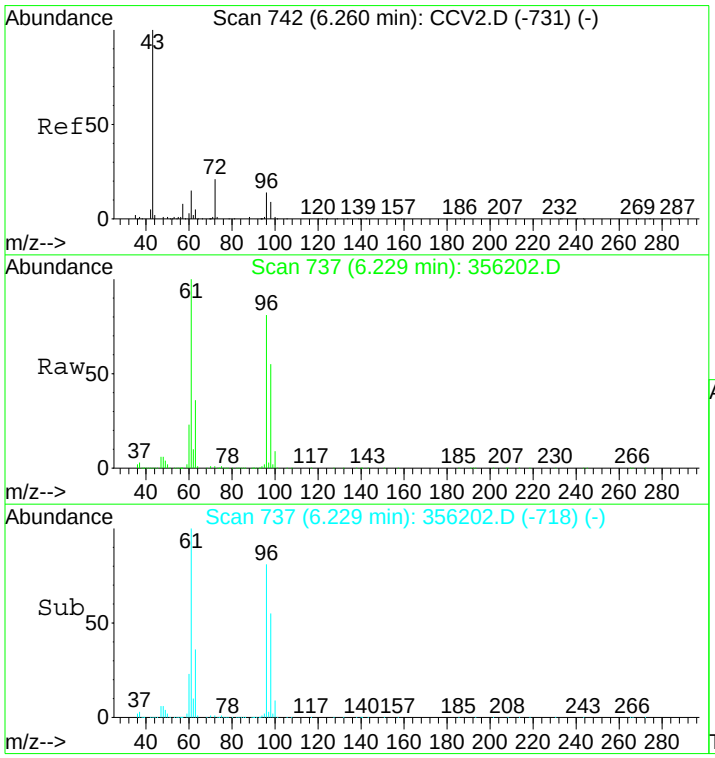


#32
c12dichlorte
Concen: 0.35 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356202.D
Acq: 13 Nov 2019 15:56

Tgt Ion: 96 Resp: 4034552

Ion	Ratio	Lower	Upper
96	100		
61	125.9	128.4	168.4#
98	65.6	44.3	84.3

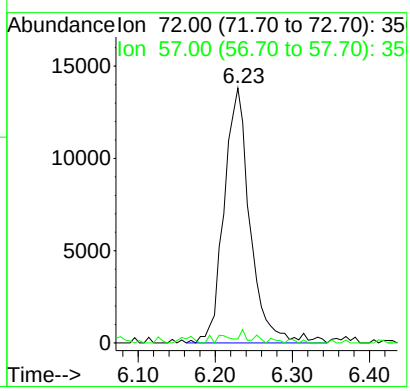




#33
2Butanone
Concen: 0.04 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.04 min
Lab File: 356202.D
Acq: 13 Nov 2019 15:56

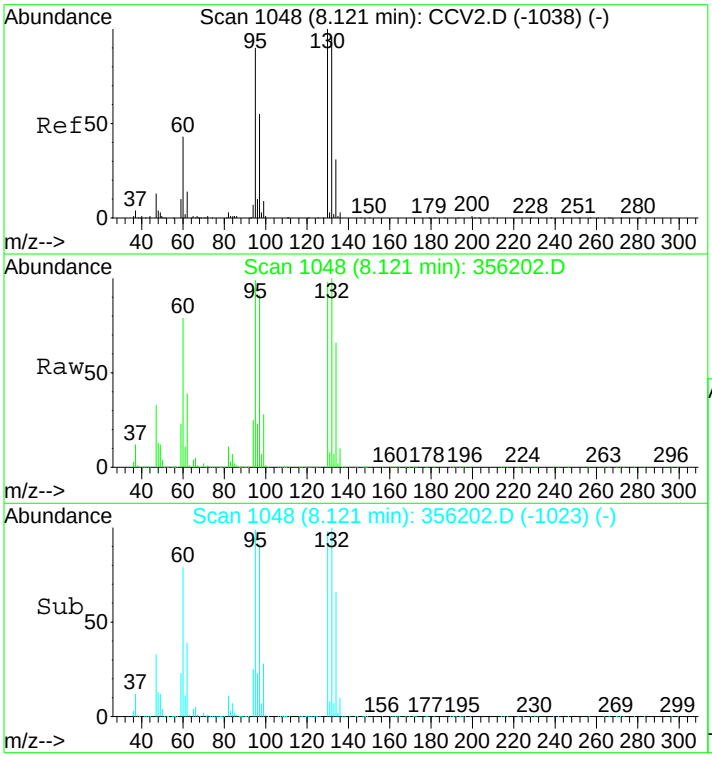
Tgt Ion: 72 Resp: 32426

Ion	Ratio	Lower	Upper
72	100		
57	0.0	17.0	57.0#



Negative Library Identification

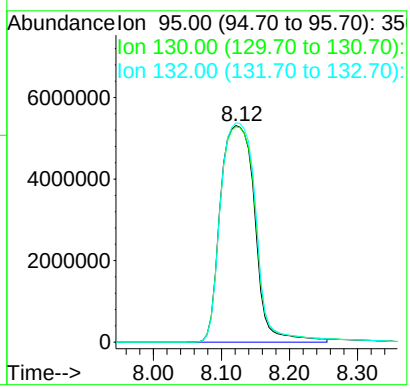
[redacted]



#49
trichloroete
Concen: 1.81 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356202.D
Acq: 13 Nov 2019 15:56

Tgt Ion: 95 Resp:18726405

Ion	Ratio	Lower	Upper
95	100		
130	101.5	94.7	134.7
132	103.3	91.8	131.8



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356203.D Vial: 46
Acq On : 13 Nov 2019 16:25 Operator: RLD-DGS
Sample : 166498,356203, Inst : VMS4
Misc : 7.36g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 16:45:39 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	919580	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	720626	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	389312	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	232221	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.25	102	49233	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.67	98	918446	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	316461	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	2414	N.D.		
3) Chloromethan	2.07	50	1791	N.D.		
4) VinylChlorid	2.21	62	375852	0.0272	mg/kg	98
5) Bromomethane	2.69	94	1599	Below Cal		98
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	3.94	96	29502	0.0028	mg/kg	97
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.05	43	20517	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.22	76	2267	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	33734	0.0018	mg/kg	98
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	4.96	96	8291	0.0007	mg/kg	89
23) tbutylalcohol	4.81	59	14900	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.33	57	5528	N.D.		
26) 11dichlorota	5.50	63	4916	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	6.19	77	7700	0.0005	mg/kg#	1
32) c12dichlorte	6.23	96	4747352	0.3529	mg/kg#	86
33) 2Butanone	6.23	72	37802	0.0373	mg/kg#	43
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.62	42	1691	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356203.D Vial: 46
Acq On : 13 Nov 2019 16:25 Operator: RLD-DGS
Sample : 166498,356203, Inst : VMS4
Misc : 7.36g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 16:45:39 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	1022	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	12040	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	19310963	1.5785 mg/kg	90
50)	methylcyclohexane	8.33	83	1428	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	8193	N.D.	
61)	Toluene	9.76	92	13590	0.0004 mg/kg	92
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.29	83	2226	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	11.63	112	1154	N.D.	
72)	1Clhexane	11.59	91	2136	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.80	91	1099	N.D.	
75)	m p-Xylene	11.98	106	1421	N.D.	
76)	o-Xylene	12.51	106	2445	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	13.01	105	4593	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	40125	0.0025 mg/kg	69
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.55	91	1891	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1988	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.46	91	1584	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356203.D Vial: 46
Acq On : 13 Nov 2019 16:25 Operator: RLD-DGS
Sample : 166498,356203, Inst : VMS4
Misc : 7.36g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 16:45:39 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	1623	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

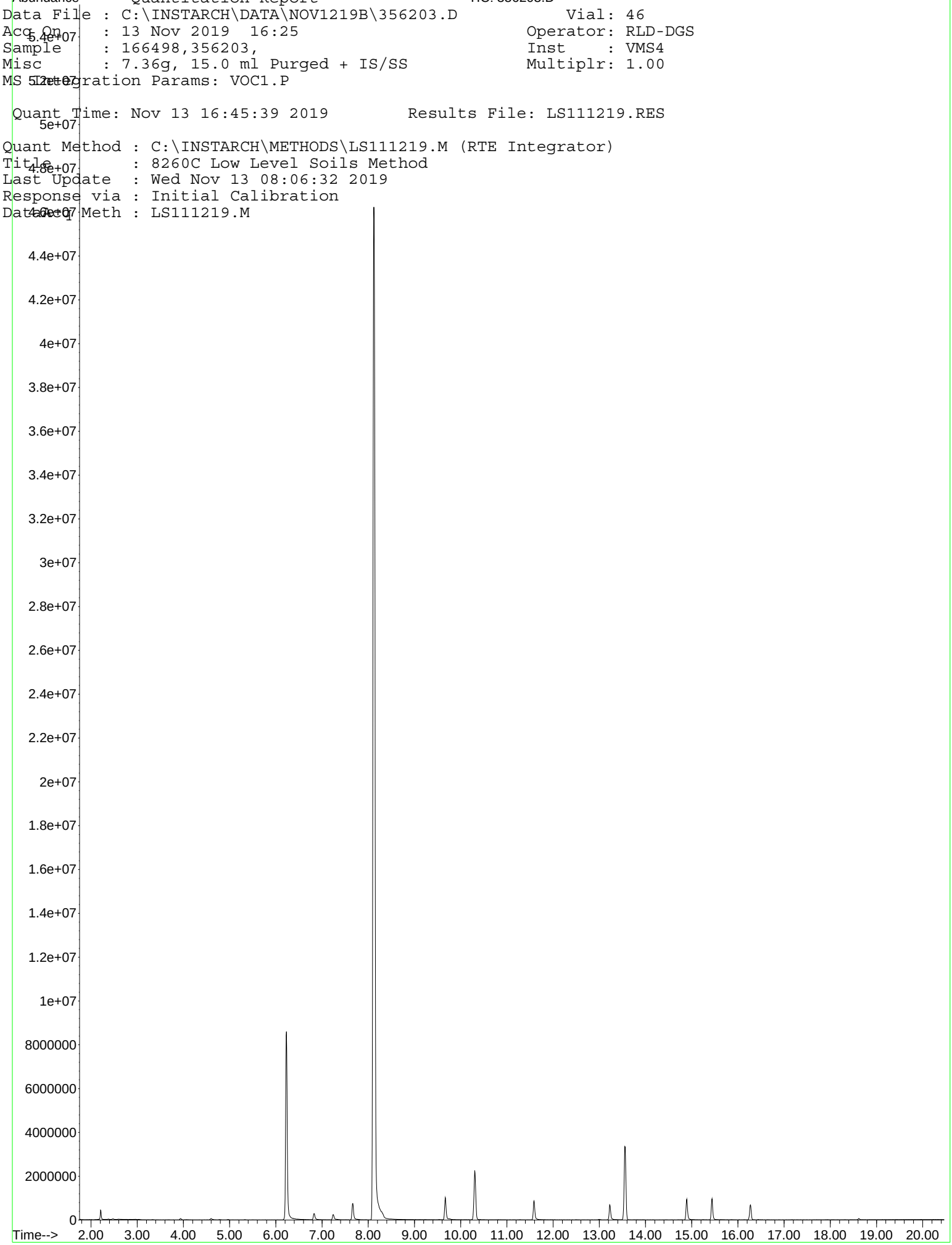
(#) = qualifier out of range (m) = manual integration

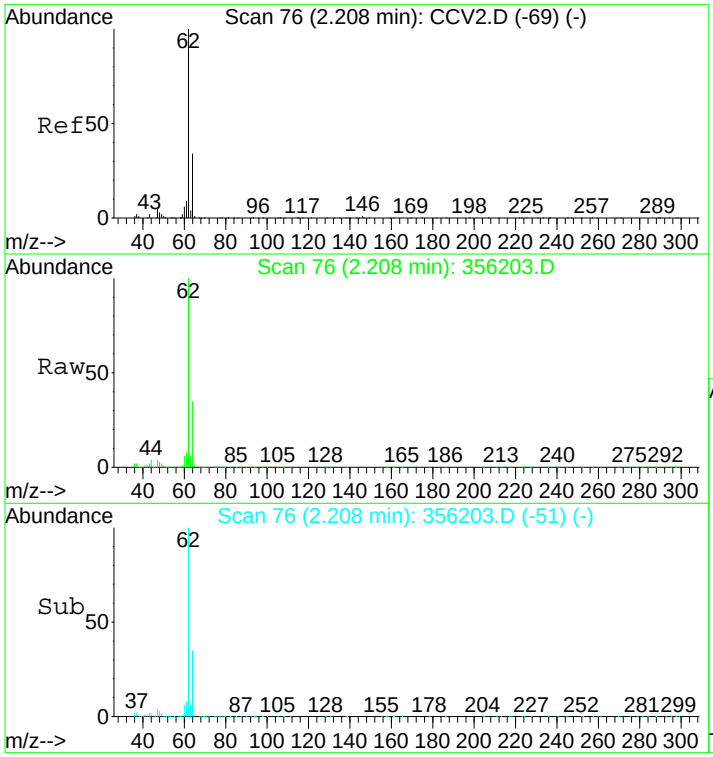
Abundance Quantitation Report TIC: 356203.D

Data File : C:\INSTARCH\DATA\NOV1219B\356203.D Vial: 46
Acq On : 13 Nov 2019 16:25 Operator: RLD-DGS
Sample : 166498,356203, Inst : VMS4
Misc : 7.36g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 16:45:39 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
Data Meth : LS111219.M

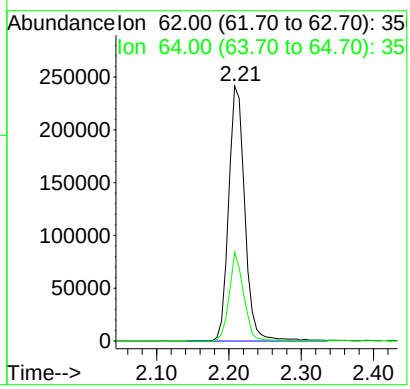


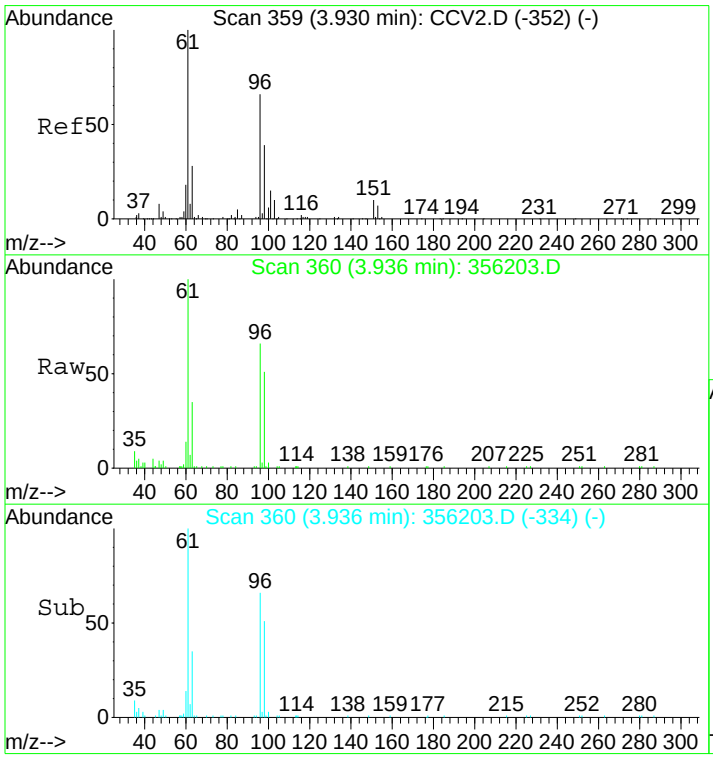


#4
VinylChlorid
Concen: 0.03 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. -0.00 min
Lab File: 356203.D
Acq: 13 Nov 2019 16:25

Tgt Ion: 62 Resp: 375852

Ion	Ratio	Lower	Upper
62	100		
64	31.5	12.9	52.9

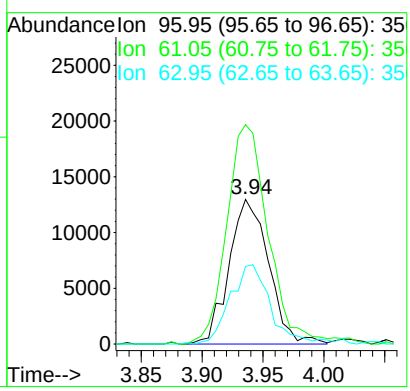


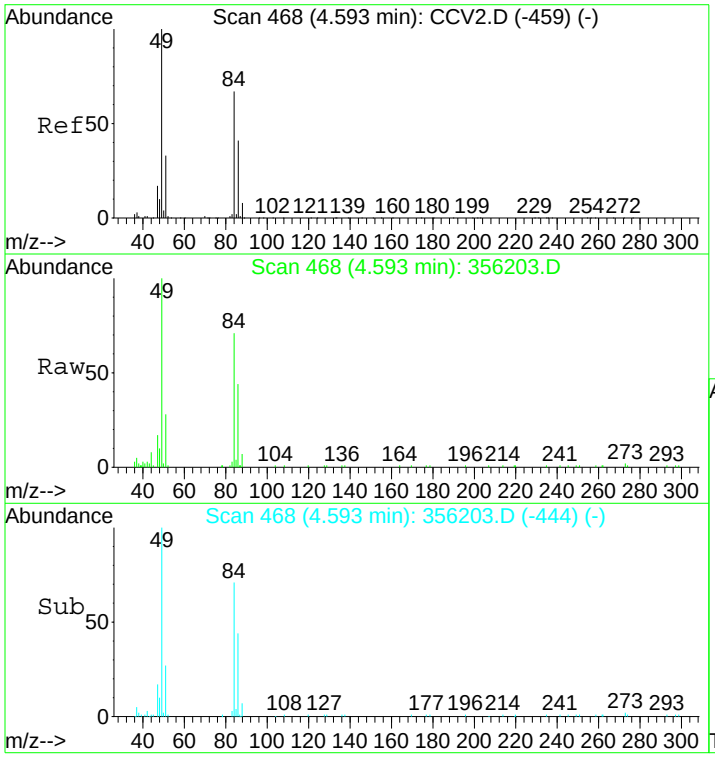


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356203.D
Acq: 13 Nov 2019 16:25

Tgt Ion: 96 Resp: 29502

Ion	Ratio	Lower	Upper
96	100		
61	159.2	139.7	179.7
63	56.3	29.4	69.4

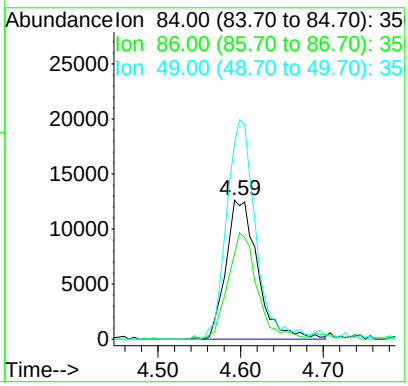


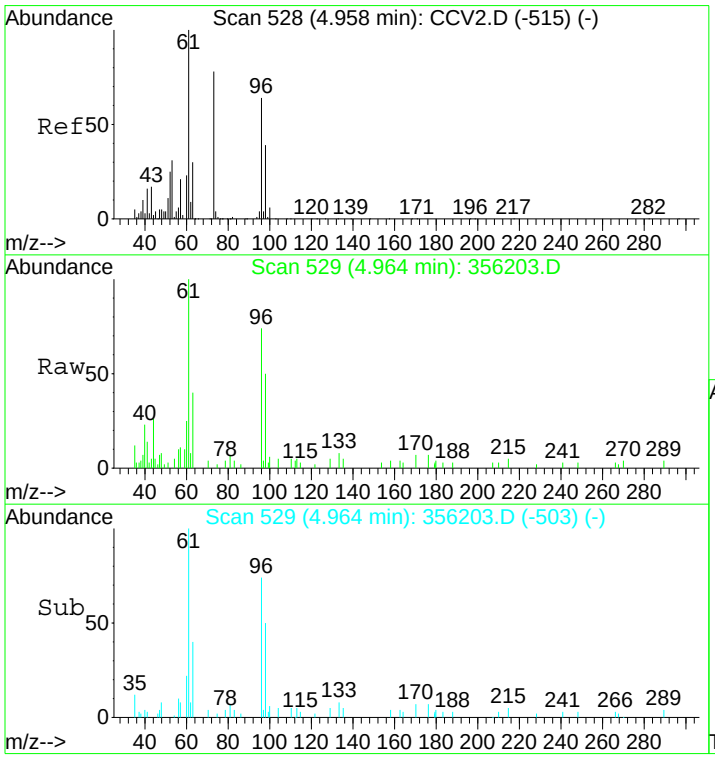


#20
Methylchlorid
Concen: 0.00 mg/kg
RT: 4.59 min Scan# 468
Delta R.T. -0.01 min
Lab File: 356203.D
Acq: 13 Nov 2019 16:25

Tgt Ion: 84 Resp: 33734

Ion	Ratio	Lower	Upper
84	100		
86	70.0	47.4	87.4
49	146.1	128.2	168.2

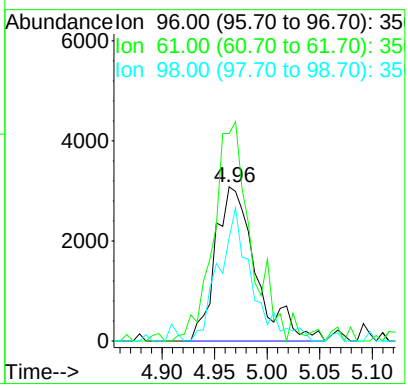


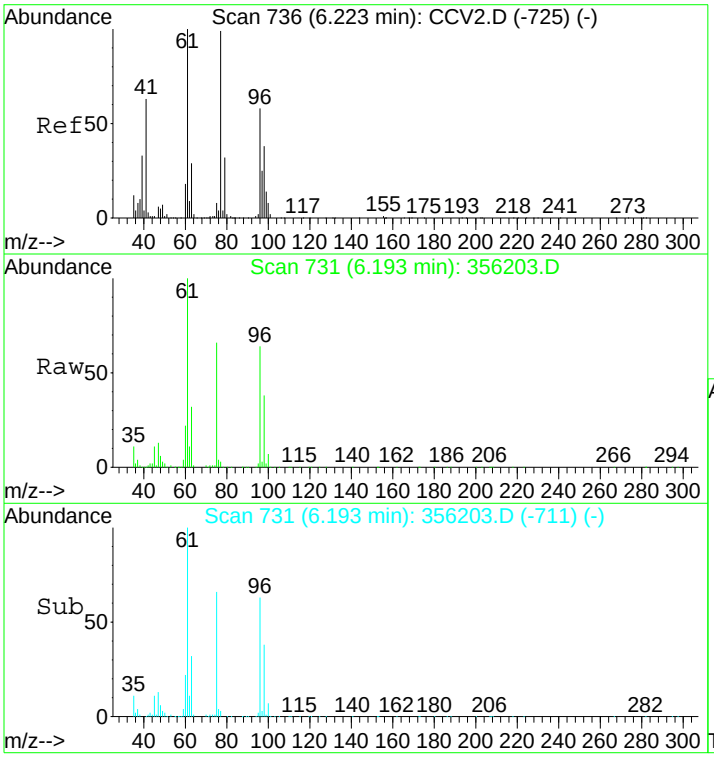


#22
t12dichlorte
Concen: 0.00 mg/kg
RT: 4.96 min Scan# 529
Delta R.T. 0.01 min
Lab File: 356203.D
Acq: 13 Nov 2019 16:25

Tgt Ion: 96 Resp: 8291

Ion	Ratio	Lower	Upper
96	100		
61	128.0	123.7	163.7
98	70.4	44.9	84.9

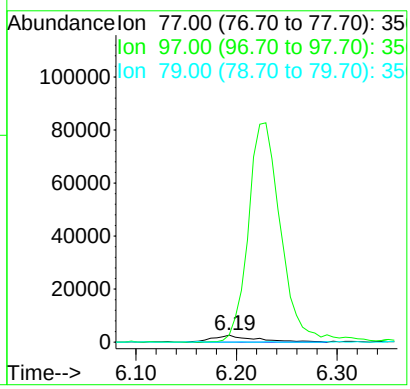




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.19 min Scan# 731
Delta R.T. -0.03 min
Lab File: 356203.D
Acq: 13 Nov 2019 16:25

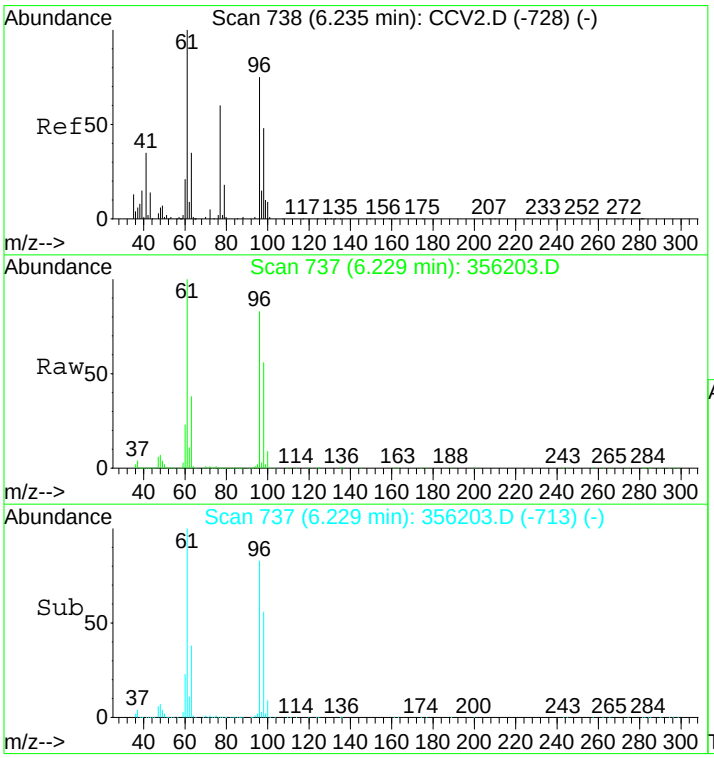
Tgt Ion: 77 Resp: 7700

Ion	Ratio	Lower	Upper
77	100		
97	2439.3	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

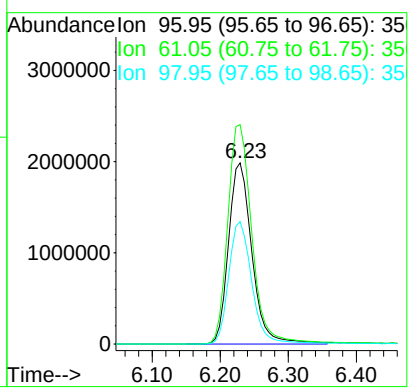
[redacted]

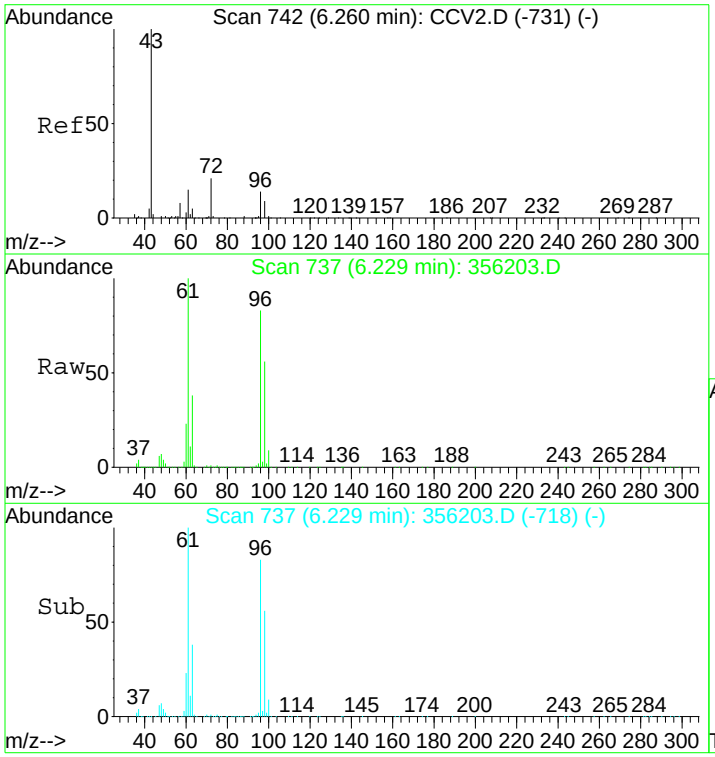


#32
c12dichlorte
Concen: 0.35 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356203.D
Acq: 13 Nov 2019 16:25

Tgt Ion: 96 Resp: 4747352

Ion	Ratio	Lower	Upper
96	100		
61	124.7	128.4	168.4#
98	66.6	44.3	84.3

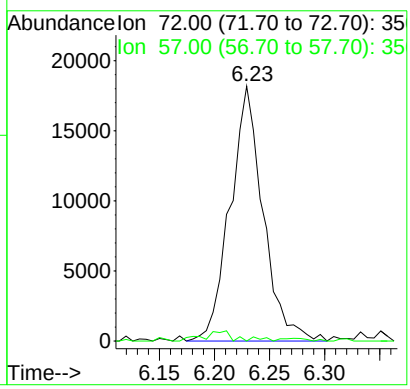




#33
2Butanone
Concen: 0.04 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.04 min
Lab File: 356203.D
Acq: 13 Nov 2019 16:25

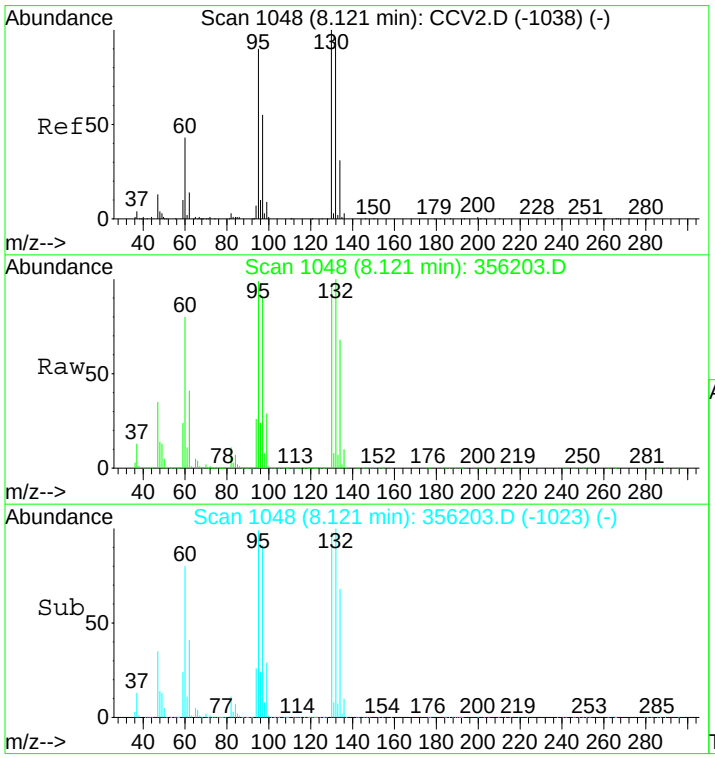
Tgt Ion: 72 Resp: 37802

Ion	Ratio	Lower	Upper
72	100		
57	3.3	17.0	57.0#



Negative Library Identification

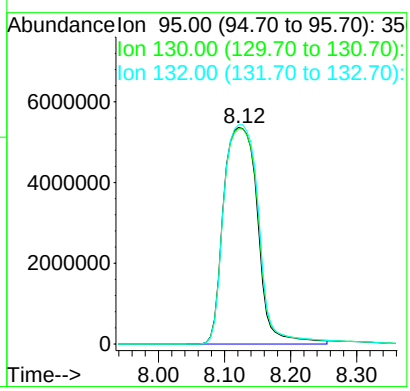
[redacted]

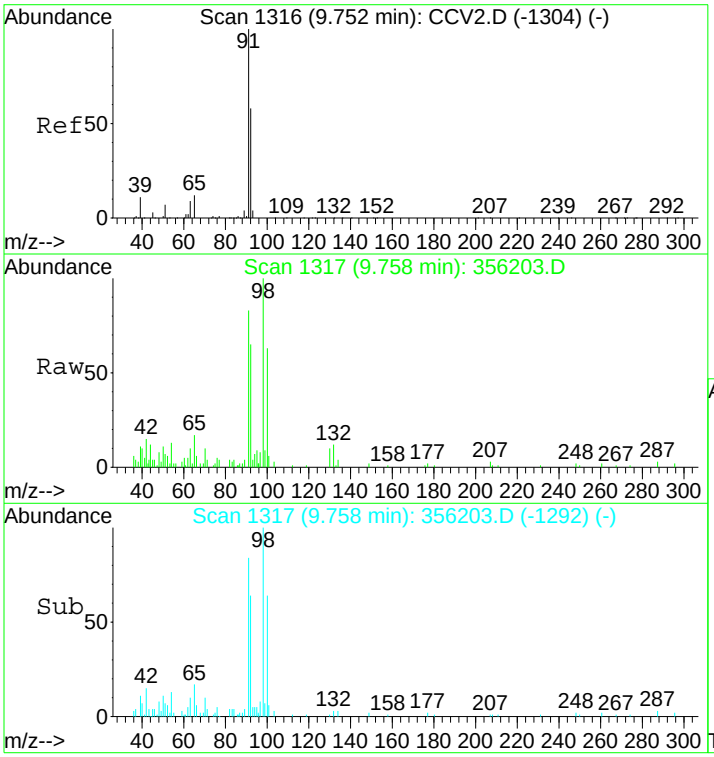


#49
trichloroete
Concen: 1.58 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356203.D
Acq: 13 Nov 2019 16:25

Tgt Ion: 95 Resp:19310963

Ion	Ratio	Lower	Upper
95	100		
130	101.4	94.7	134.7
132	103.2	91.8	131.8

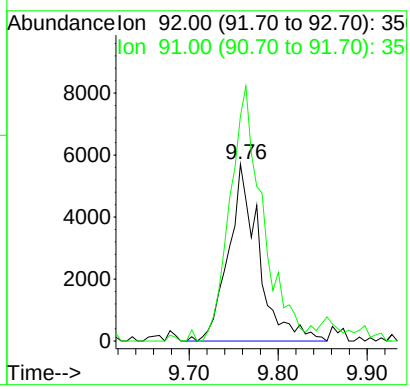


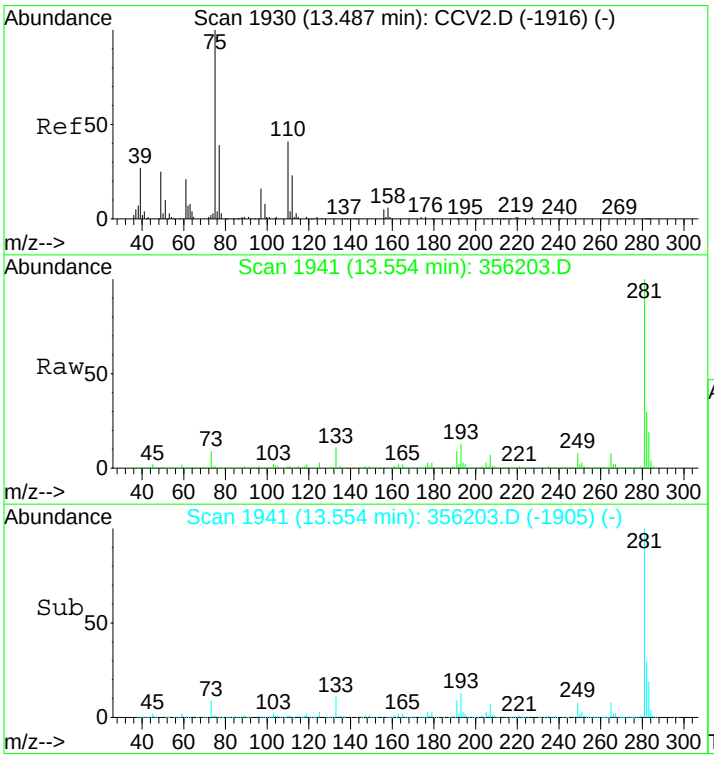


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.76 min Scan# 1317
Delta R.T. -0.00 min
Lab File: 356203.D
Acq: 13 Nov 2019 16:25

Tgt Ion: 92 Resp: 13590

Ion	Ratio	Lower	Upper
92	100		
91	157.3	148.0	188.0

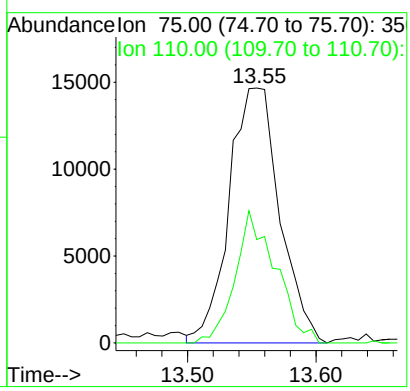




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356203.D
Acq: 13 Nov 2019 16:25

Tgt Ion: 75 Resp: 40125

Ion	Ratio	Lower	Upper
75	100		
110	41.4	5.6	45.6



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356204.D Vial: 47
Acq On : 13 Nov 2019 16:54 Operator: RLD-DGS
Sample : 166498,356204, Inst : VMS4
Misc : 7.60g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 17:14:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	820727	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	664189	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	372262	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	215259	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	48953	0.023 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %		
60) SURRd8Tolule	9.67	98	820527	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	298823	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.06	50	1926	N.D.	
4) VinylChlorid	2.21	62	4174	N.D.	
5) Bromomethane	2.68	94	1094	Below Cal	90
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	3741	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.07	43	21250	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	2083	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	17723	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.97	96	2896	N.D.	
23) tbutylalcohol	4.79	59	14965	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.32	57	4545	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.26	77	1555	N.D.	
32) c12dichlorte	6.23	96	780352	0.0650 mg/kg	89
33) 2Butanone	6.23	72	7757	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356204.D Vial: 47
Acq On : 13 Nov 2019 16:54 Operator: RLD-DGS
Sample : 166498,356204, Inst : VMS4
Misc : 7.60g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 17:14:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.64	83	7304	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.34	78	6623	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	7785797	0.7131 mg/kg	94
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.52	43	3649	N.D.	
61)	Toluene	9.76	92	2893	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.32	83	3736	0.0005 mg/kg#	62
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.59	91	1610	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.22	55	1188	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	13.54	83	1389	N.D.	
85)	123Triclproa	13.55	75	43185	0.0028 mg/kg#	48
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.53	91	2181	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1262	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.89	119	1071	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.43	91	1655	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356204.D Vial: 47
Acq On : 13 Nov 2019 16:54 Operator: RLD-DGS
Sample : 166498,356204, Inst : VMS4
Misc : 7.60g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 17:14:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	1406	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

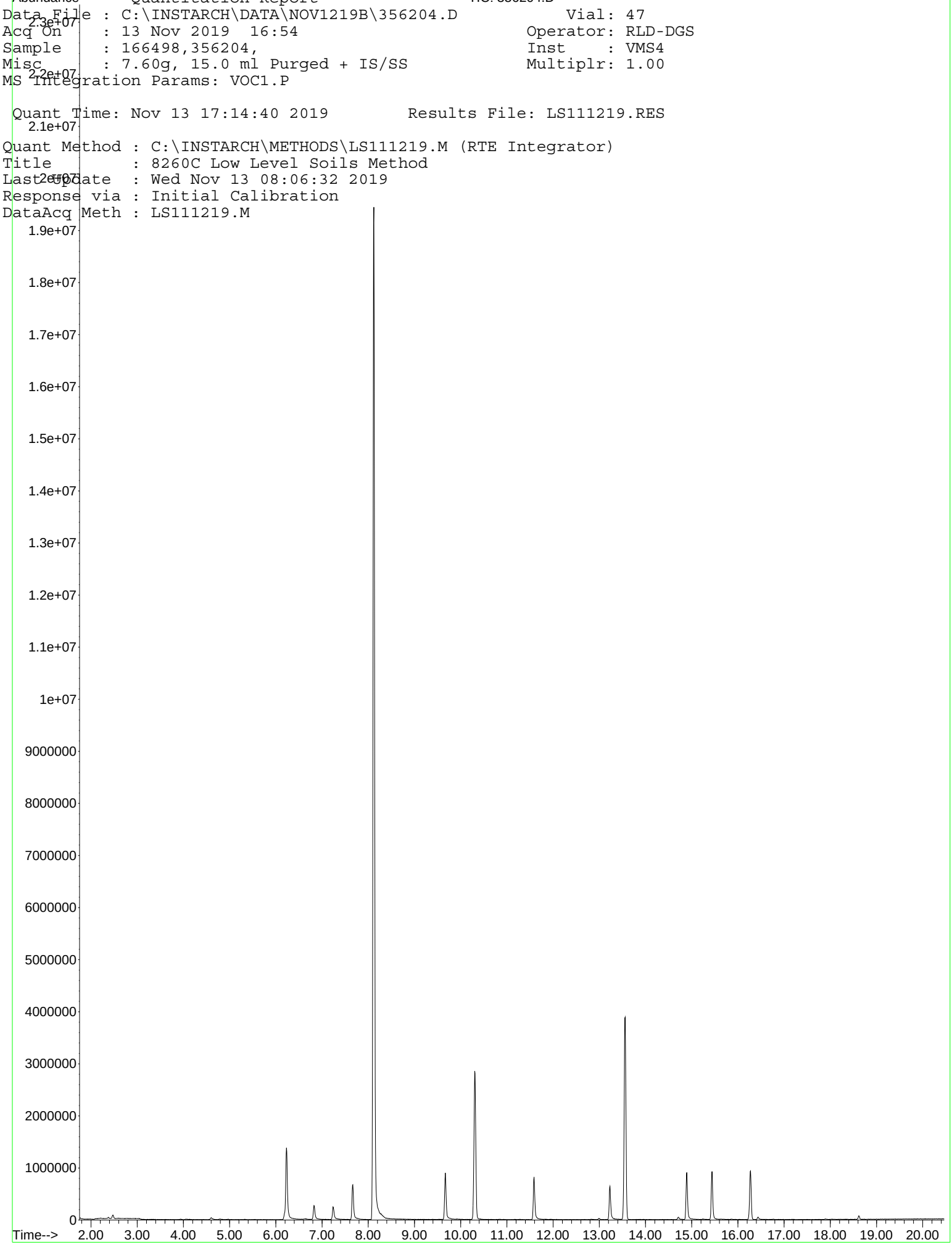
(#) = qualifier out of range (m) = manual integration

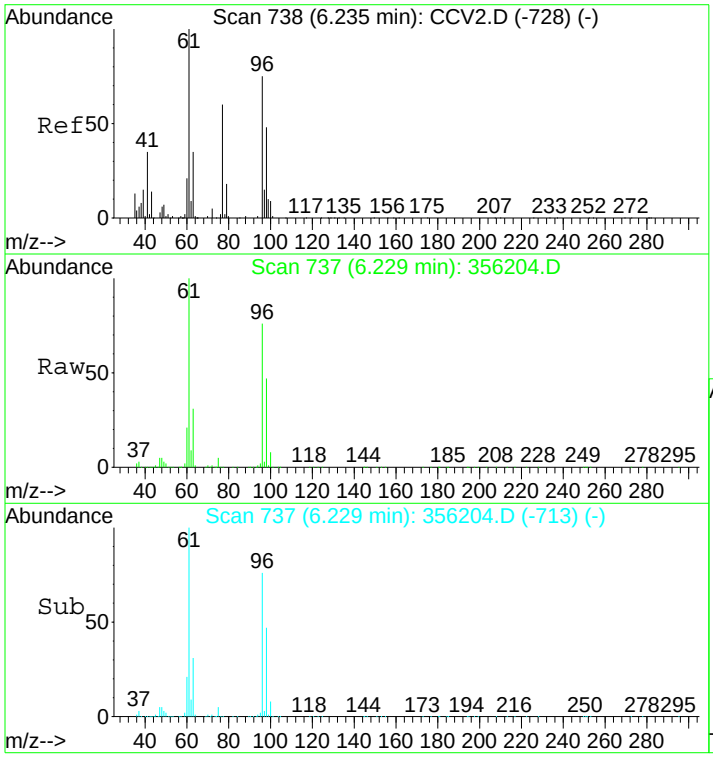
Abundance Quantitation Report TIC: 356204.D

Data File : C:\INSTARCH\DATA\NOV1219B\356204.D Vial: 47
Acq On : 13 Nov 2019 16:54 Operator: RLD-DGS
Sample : 166498,356204, Inst : VMS4
Misc : 7.60g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 17:14:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

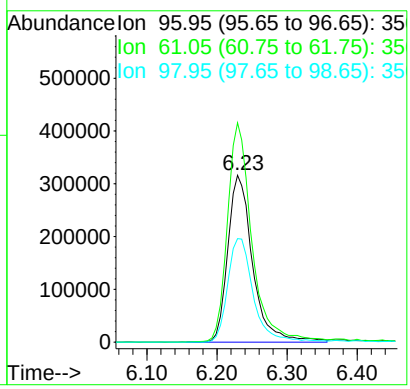


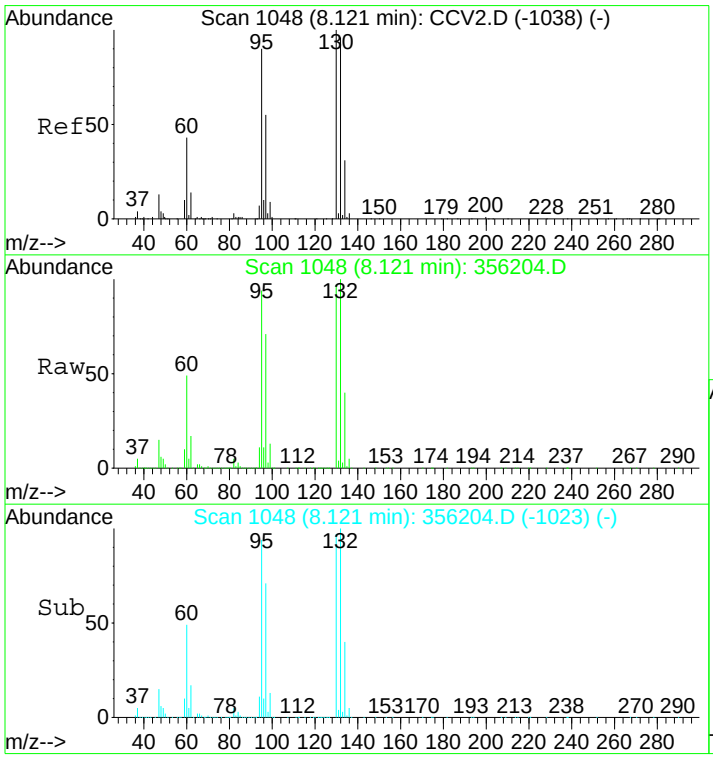


#32
c12dichlorte
Concen: 0.06 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356204.D
Acq: 13 Nov 2019 16:54

Tgt Ion: 96 Resp: 780352

Ion	Ratio	Lower	Upper
96	100		
61	129.6	128.4	168.4
98	63.8	44.3	84.3

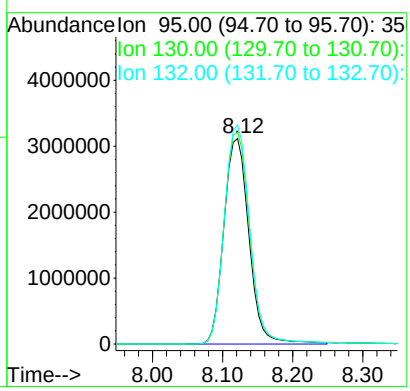


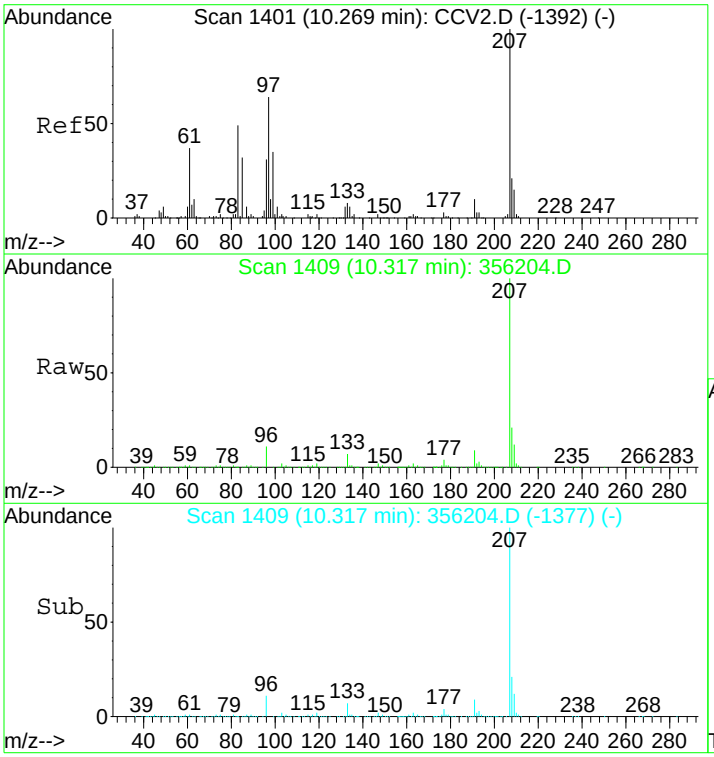


#49
trichloroete
Concen: 0.71 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356204.D
Acq: 13 Nov 2019 16:54

Tgt Ion: 95 Resp: 7785797

Ion	Ratio	Lower	Upper
95	100		
130	105.6	94.7	134.7
132	107.8	91.8	131.8

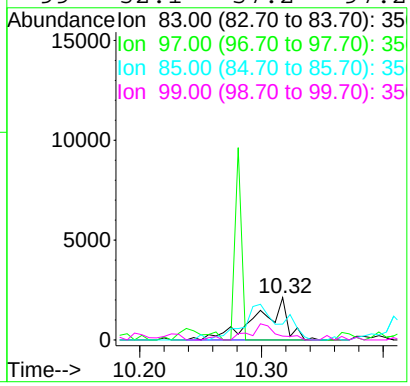




#64
112Triclotha
Concen: 0.00 mg/kg
RT: 10.32 min Scan# 1409
Delta R.T. 0.04 min
Lab File: 356204.D
Acq: 13 Nov 2019 16:54

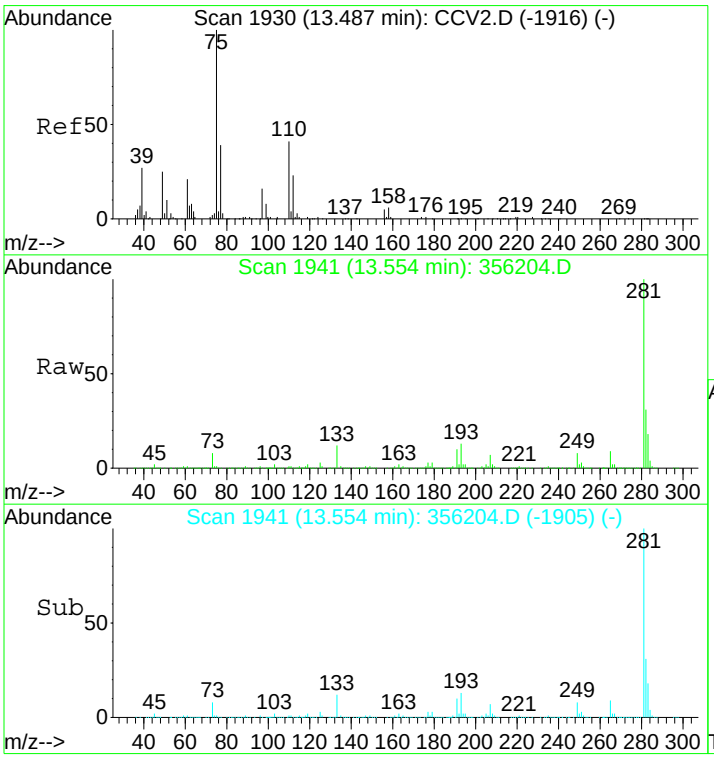
Tgt Ion: 83 Resp: 3736

Ion	Ratio	Lower	Upper
83	100		
97	94.1	103.7	143.7#
85	102.2	46.3	86.3#
99	32.1	57.2	97.2#



Negative Library Identification

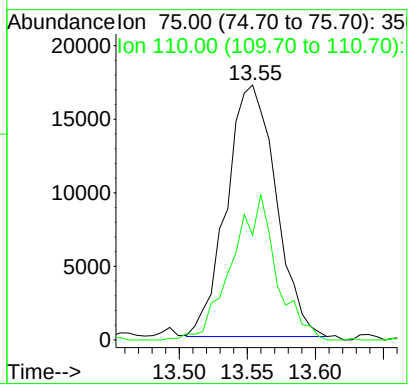
[redacted]



#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356204.D
Acq: 13 Nov 2019 16:54

Tgt Ion: 75 Resp: 43185

Ion	Ratio	Lower	Upper
75	100		
110	51.7	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356205.D Vial: 48
Acq On : 13 Nov 2019 17:23 Operator: RLD-DGS
Sample : 166498,356205, Inst : VMS4
Misc : 6.48g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 17:43:43 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	895852	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	714679	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	398150	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	233909	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.23	102	53242	0.023 mg/kg	-0.01
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %		
60) SURRd8Tolule	9.67	98	886500	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	319334	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.06	50	1005	N.D.	
4) VinylChlorid	2.21	62	16552	0.0012 mg/kg	99
5) Bromomethane	2.66	94	1665	Below Cal	92
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	7133	0.0007 mg/kg	99
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	13447	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	1730	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	18561	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.96	96	5917	0.0005 mg/kg	96
23) tbutylalcohol	4.78	59	8820	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.34	57	4300	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.20	77	4404	N.D.	
32) c12dichlorte	6.23	96	1399582	0.1068 mg/kg#	89
33) 2Butanone	6.23	72	9936	0.0101 mg/kg#	38
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356205.D Vial: 48
Acq On : 13 Nov 2019 17:23 Operator: RLD-DGS
Sample : 166498,356205, Inst : VMS4
Misc : 6.48g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 17:43:43 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	9467	0.0005 mg/kg	96
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	10384	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	17793542	1.4930 mg/kg	90
50)	methylcyclohexane	8.27	83	1303	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	0.00	43	0	N.D.	
61)	Toluene	9.76	92	1375	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.29	83	1485	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.60	91	1322	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.56	75	46004	0.0028 mg/kg	63
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.57	91	2368	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.42	105	1281	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	14.89	146	1135	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	0.00	91	0	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356205.D Vial: 48
Acq On : 13 Nov 2019 17:23 Operator: RLD-DGS
Sample : 166498,356205, Inst : VMS4
Misc : 6.48g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 17:43:43 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	1569	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

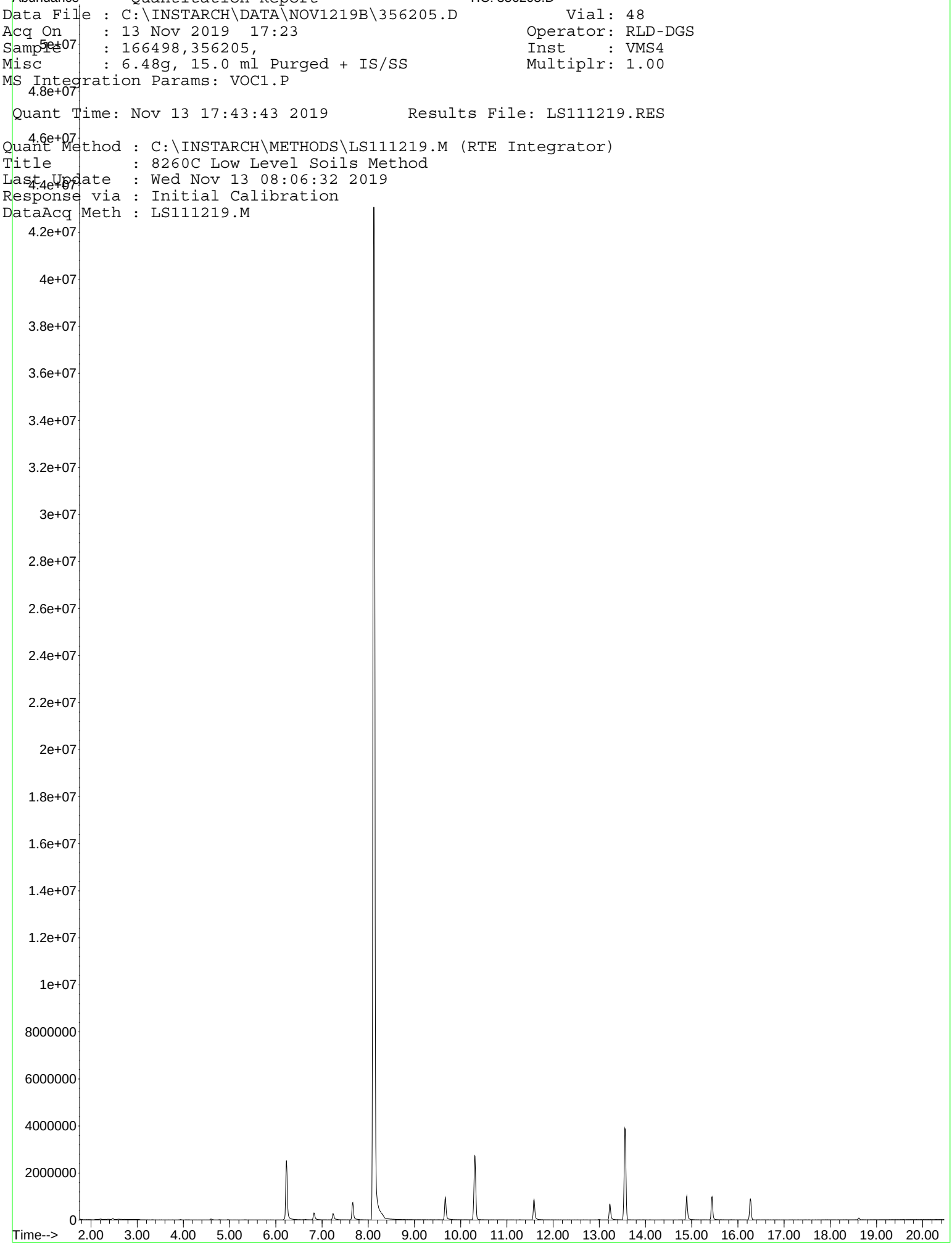
(#) = qualifier out of range (m) = manual integration

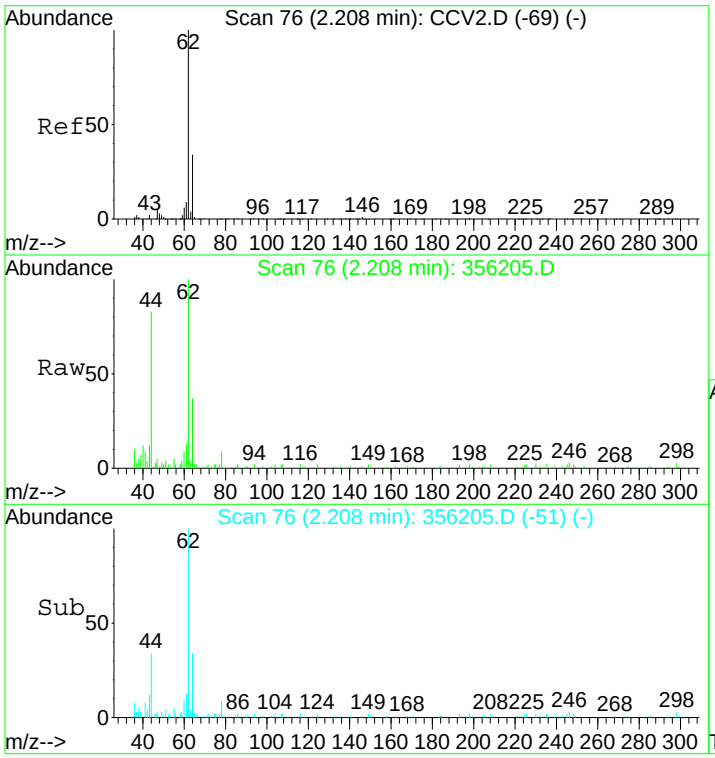
Abundance Quantitation Report TIC: 356205.D

Data File : C:\INSTARCH\DATA\NOV1219B\356205.D Vial: 48
Acq On : 13 Nov 2019 17:23 Operator: RLD-DGS
Sample : 166498,356205, Inst : VMS4
Misc : 6.48g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 17:43:43 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

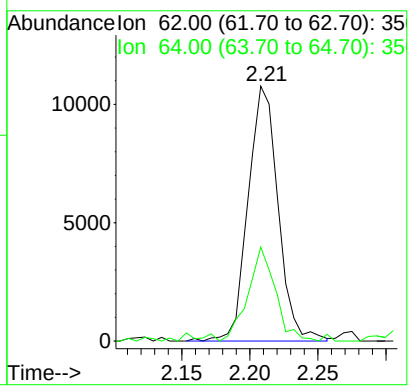


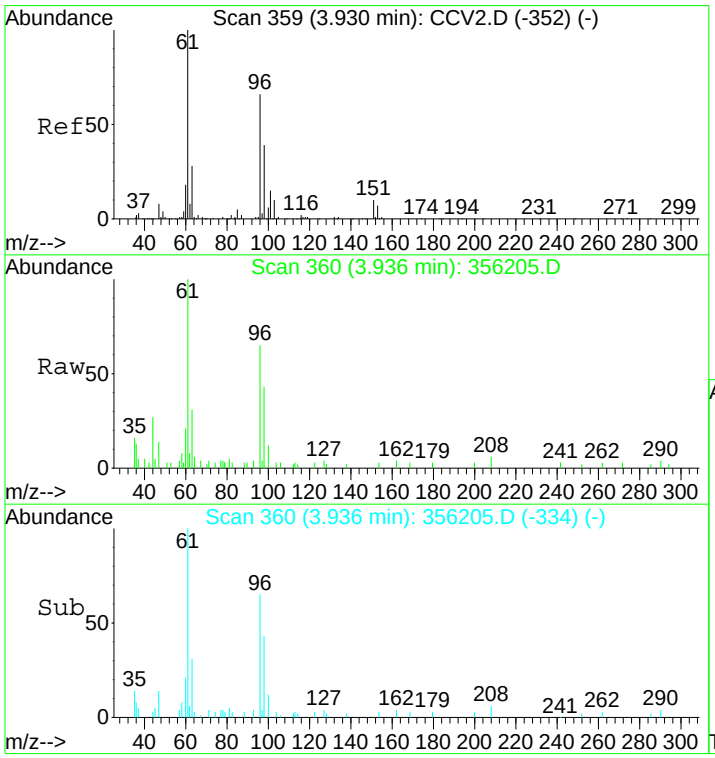


#4
VinylChlorid
Concen: 0.00 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. 0.00 min
Lab File: 356205.D
Acq: 13 Nov 2019 17:23

Tgt Ion: 62 Resp: 16552

Ion	Ratio	Lower	Upper
62	100		
64	33.5	12.9	52.9

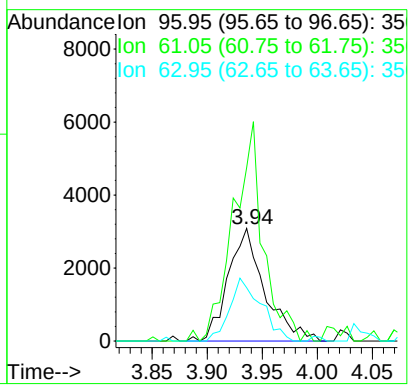


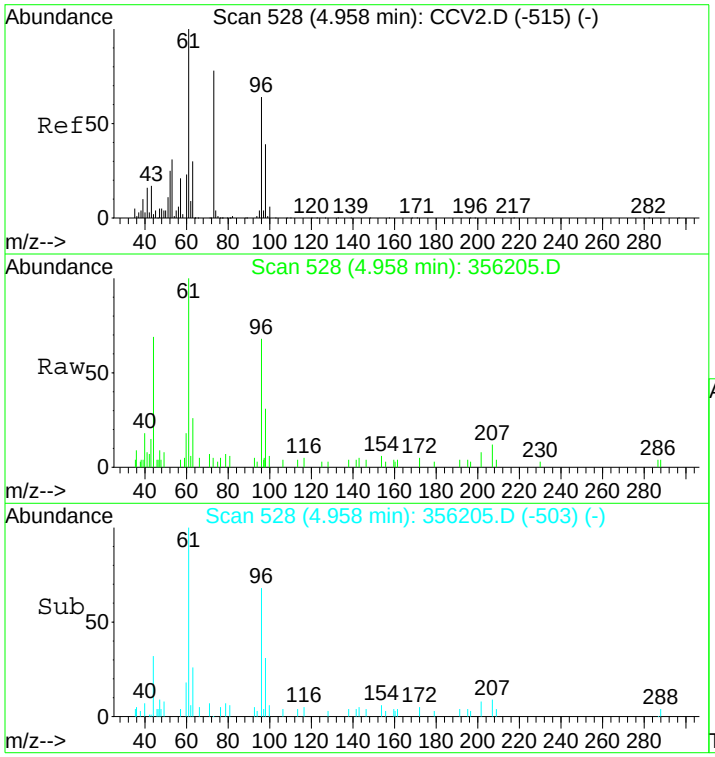


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356205.D
Acq: 13 Nov 2019 17:23

Tgt Ion: 96 Resp: 7133

Ion	Ratio	Lower	Upper
96	100		
61	160.5	139.7	179.7
63	47.9	29.4	69.4

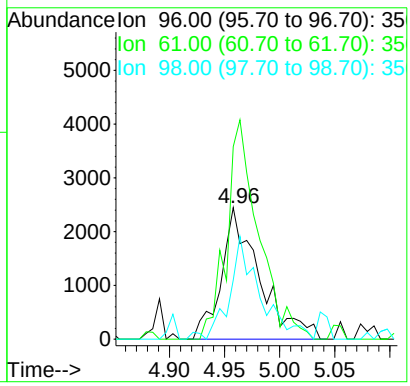


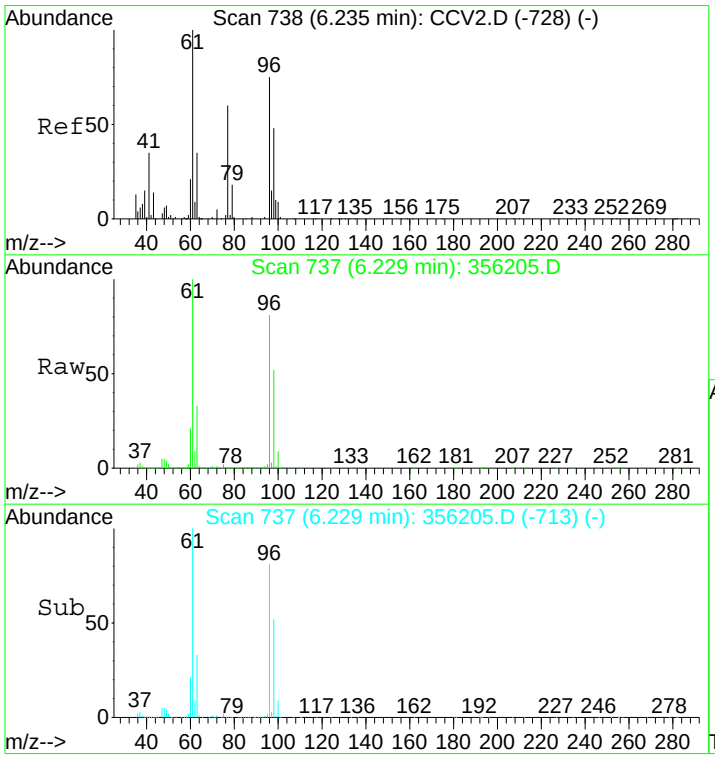


#22
t12dichlorte
Concen: 0.00 mg/kg
RT: 4.96 min Scan# 528
Delta R.T. 0.00 min
Lab File: 356205.D
Acq: 13 Nov 2019 17:23

Tgt Ion: 96 Resp: 5917

Ion	Ratio	Lower	Upper
96	100		
61	138.7	123.7	163.7
98	62.4	44.9	84.9

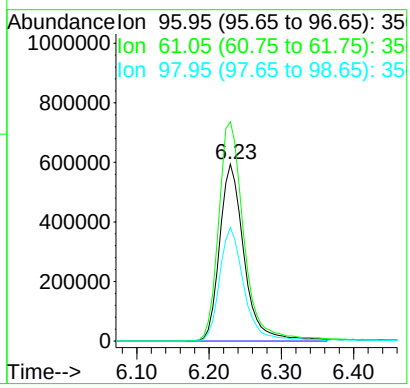


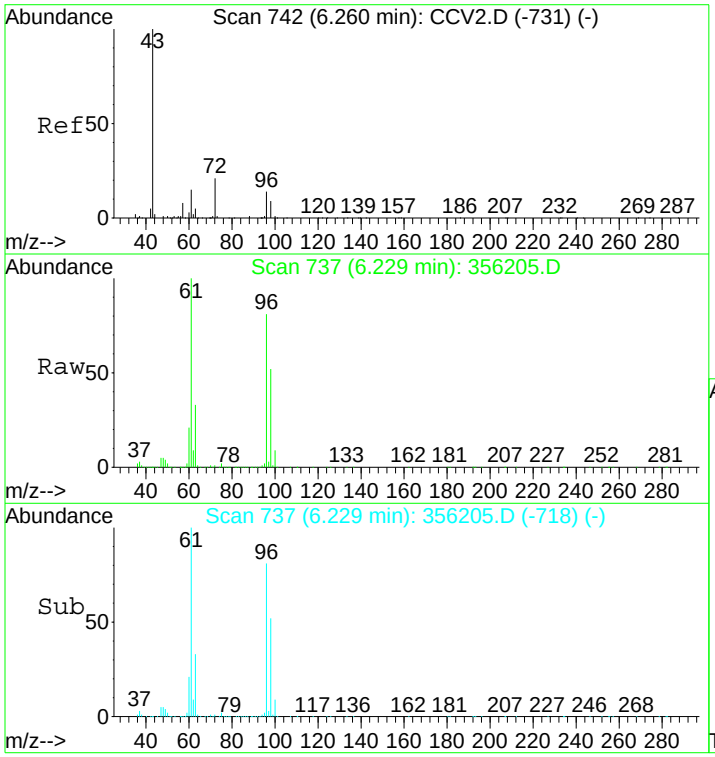


#32
c12dichlorte
Concen: 0.11 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356205.D
Acq: 13 Nov 2019 17:23

Tgt Ion: 96 Resp: 1399582

Ion	Ratio	Lower	Upper
96	100		
61	128.0	128.4	168.4#
98	64.1	44.3	84.3

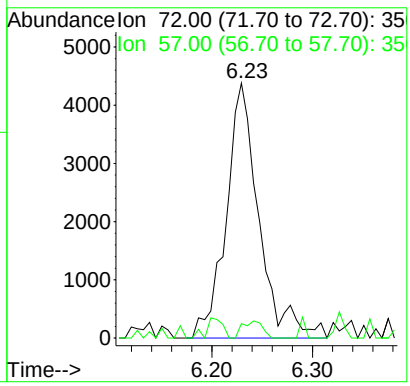




#33
2Butanone
Concen: 0.01 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.04 min
Lab File: 356205.D
Acq: 13 Nov 2019 17:23

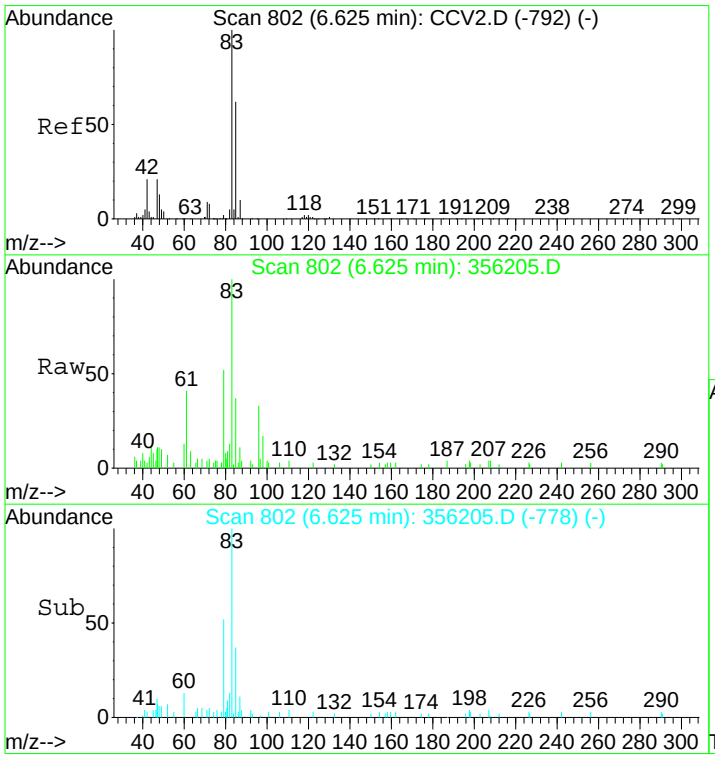
Tgt Ion: 72 Resp: 9936

Ion	Ratio	Lower	Upper
72	100		
57	0.0	17.0	57.0#



Negative Library Identification

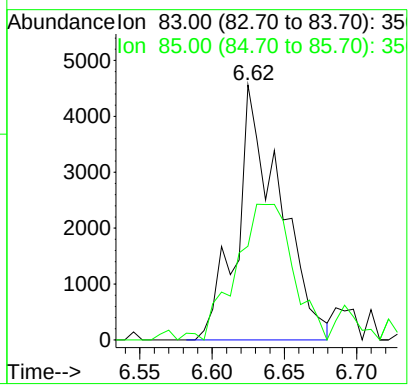
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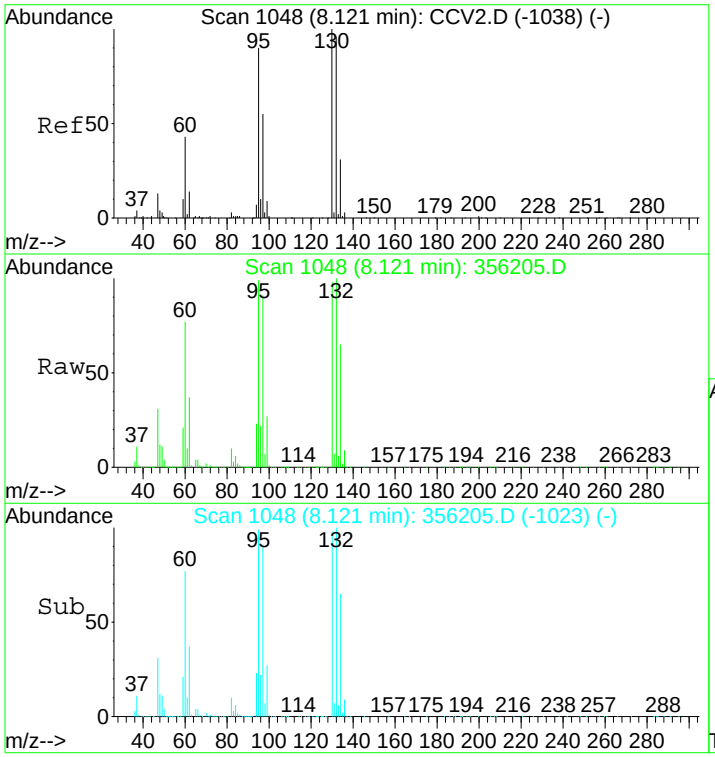


#39
Chloroform
Concen: 0.00 mg/kg
RT: 6.62 min Scan# 802
Delta R.T. -0.01 min
Lab File: 356205.D
Acq: 13 Nov 2019 17:23

Tgt Ion: 83 Resp: 9467

Ion	Ratio	Lower	Upper
83	100		
85	70.3	47.2	87.2

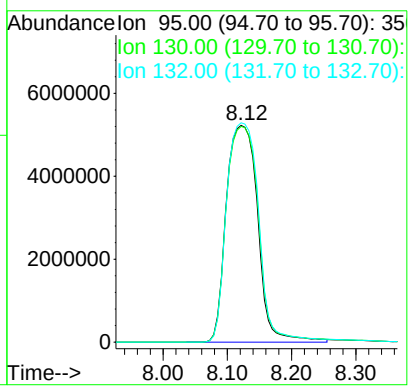


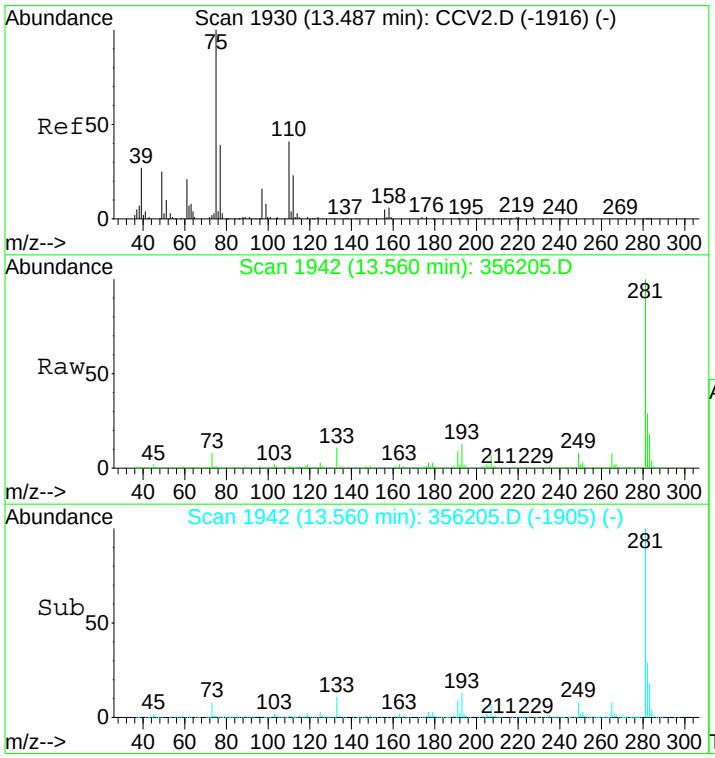


#49
trichloroete
Concen: 1.49 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356205.D
Acq: 13 Nov 2019 17:23

Tgt Ion: 95 Resp:17793542

Ion	Ratio	Lower	Upper
95	100		
130	101.5	94.7	134.7
132	103.2	91.8	131.8

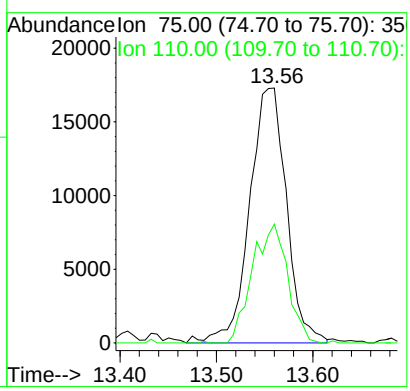




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.56 min Scan# 1942
Delta R.T. 0.07 min
Lab File: 356205.D
Acq: 13 Nov 2019 17:23

Tgt Ion: 75 Resp: 46004

Ion	Ratio	Lower	Upper
75	100		
110	44.5	5.6	45.6



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356206.D Vial: 49
Acq On : 13 Nov 2019 17:52 Operator: RLD-DGS
Sample : 166498,356206, Inst : VMS4
Misc : 7.22g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 18:12:44 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	902878	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	704196	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	382343	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	230221	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	50510	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	888988	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	307180	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.06	50	1519	N.D.	
4) VinylChlorid	2.21	62	170451	0.0126 mg/kg	97
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.94	96	24365	0.0023 mg/kg	99
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	16612	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	2241	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	23850	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	4.96	96	10858	0.0009 mg/kg	98
23) tbutylalcohol	4.79	59	7356	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	3079	N.D.	
26) 11dichlorota	5.49	63	3559	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.19	77	2631	N.D.	
32) c12dichlorte	6.23	96	3094687	0.2343 mg/kg#	87
33) 2Butanone	6.23	72	24284	0.0244 mg/kg#	38
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356206.D Vial: 49
Acq On : 13 Nov 2019 17:52 Operator: RLD-DGS
Sample : 166498,356206, Inst : VMS4
Misc : 7.22g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 18:12:44 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.64	83	1437	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	30897	0.0007 mg/kg#	79
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	15106371	1.2577 mg/kg	91
50)	methylcyclohexane	8.29	83	1025	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	3200	N.D.	
61)	Toluene	9.76	92	5011	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.32	83	1499	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	0.00	91	0	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	13.02	105	12010	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	13.52	83	1316	N.D.	
85)	123Triclproa	13.55	75	38485	0.0024 mg/kg#	48
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.57	91	1535	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.40	105	2070	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	0.00	91	0	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356206.D Vial: 49
Acq On : 13 Nov 2019 17:52 Operator: RLD-DGS
Sample : 166498,356206, Inst : VMS4
Misc : 7.22g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 18:12:44 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	2290	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

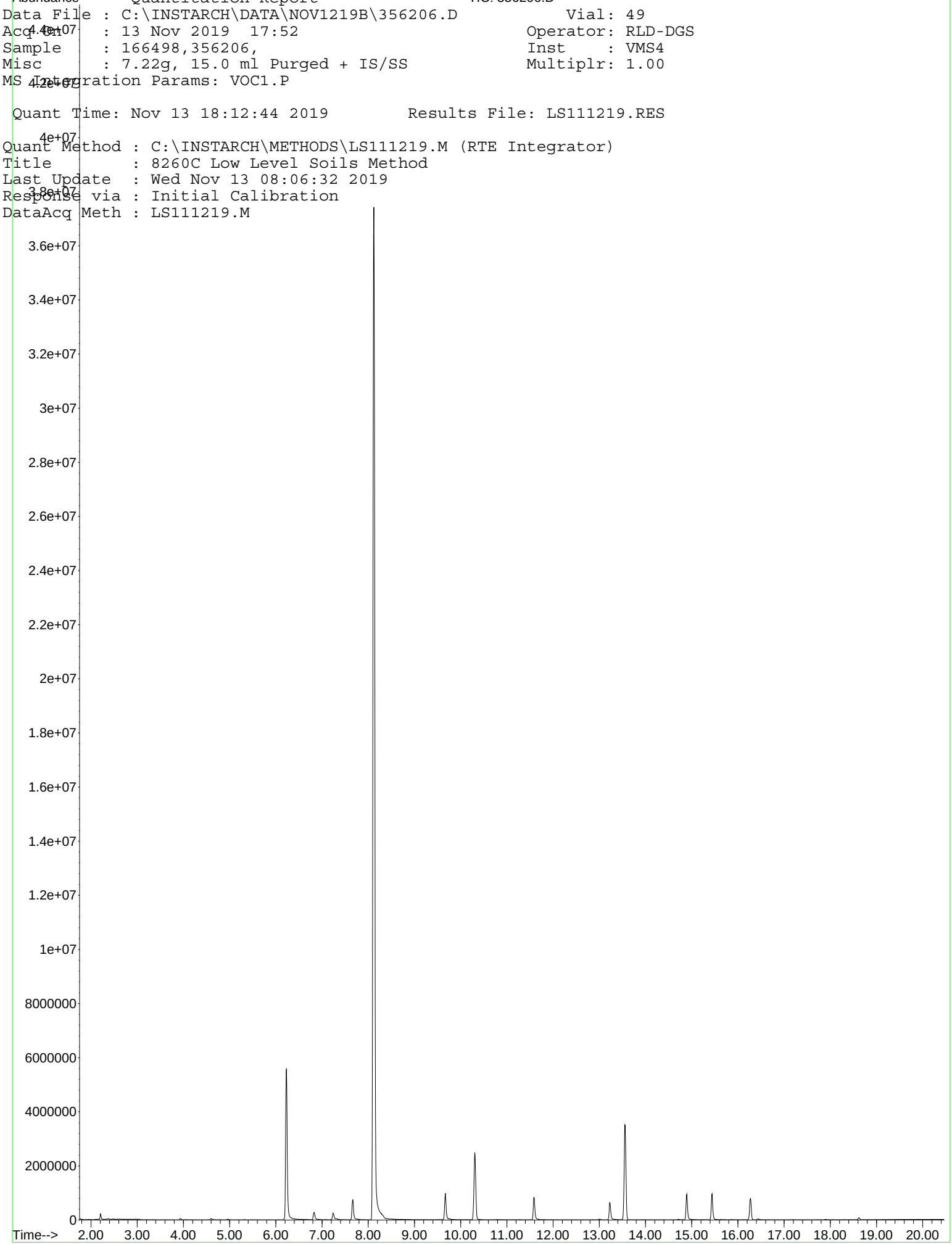
(#) = qualifier out of range (m) = manual integration

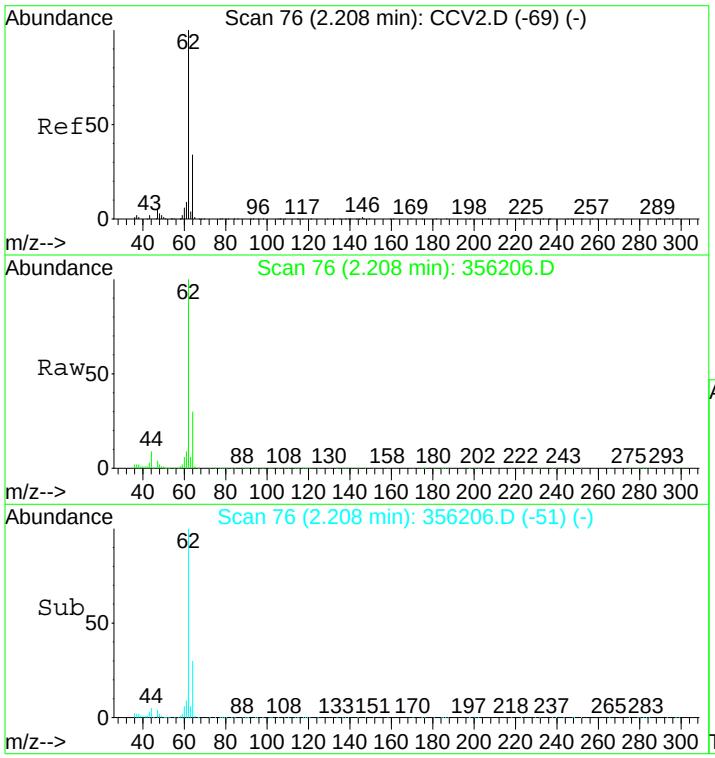
Abundance Quantitation Report TIC: 356206.D

Data File : C:\INSTARCH\DATA\NOV1219B\356206.D Vial: 49
Acq On : 13 Nov 2019 17:52 Operator: RLD-DGS
Sample : 166498,356206, Inst : VMS4
Misc : 7.22g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 18:12:44 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

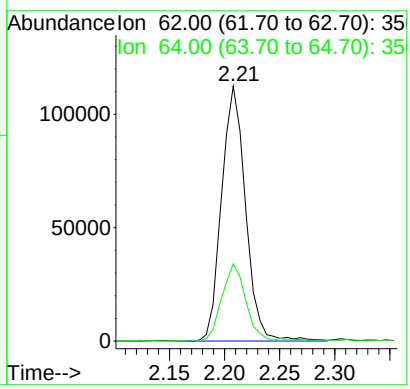


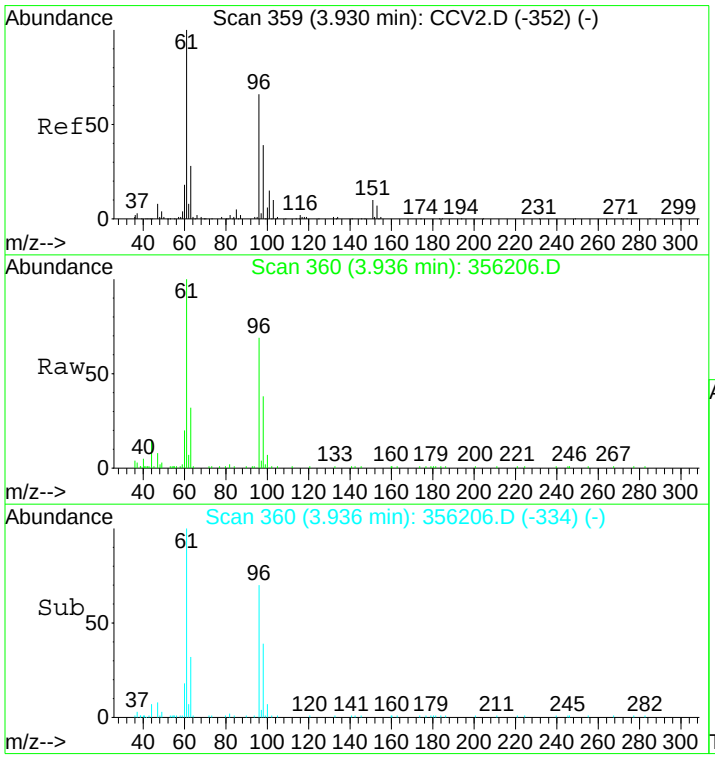


#4
VinylChlorid
Concen: 0.01 mg/kg
RT: 2.21 min Scan# 76
Delta R.T. -0.00 min
Lab File: 356206.D
Acq: 13 Nov 2019 17:52

Tgt Ion: 62 Resp: 170451

Ion	Ratio	Lower	Upper
62	100		
64	31.1	12.9	52.9

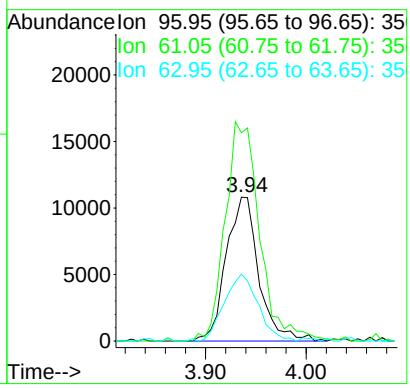


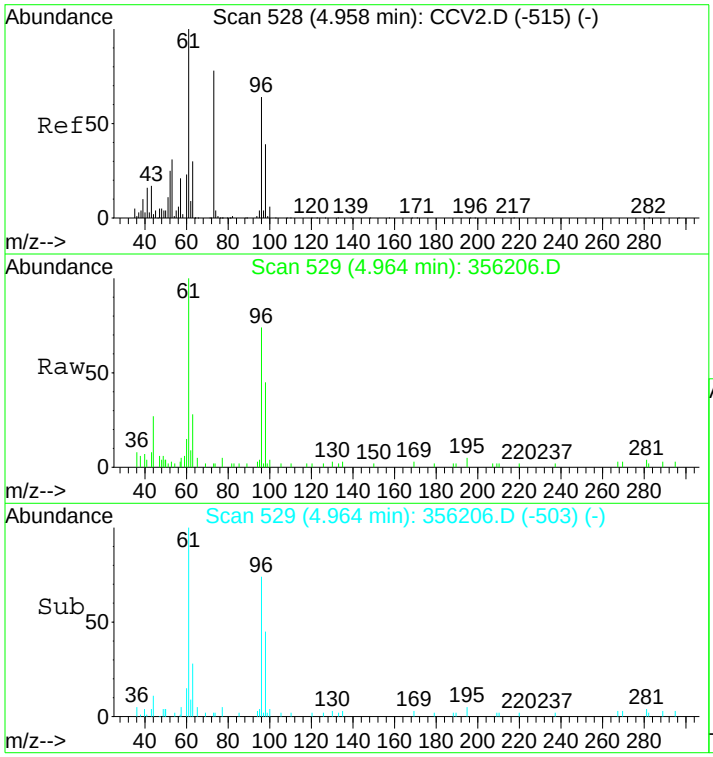


#13
11dichlorthe
Concen: 0.00 mg/kg
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: 356206.D
Acq: 13 Nov 2019 17:52

Tgt Ion: 96 Resp: 24365

Ion	Ratio	Lower	Upper
96	100		
61	161.5	139.7	179.7
63	48.2	29.4	69.4

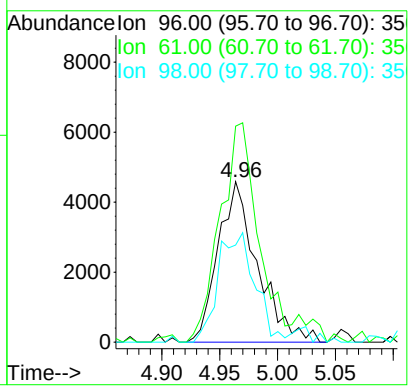


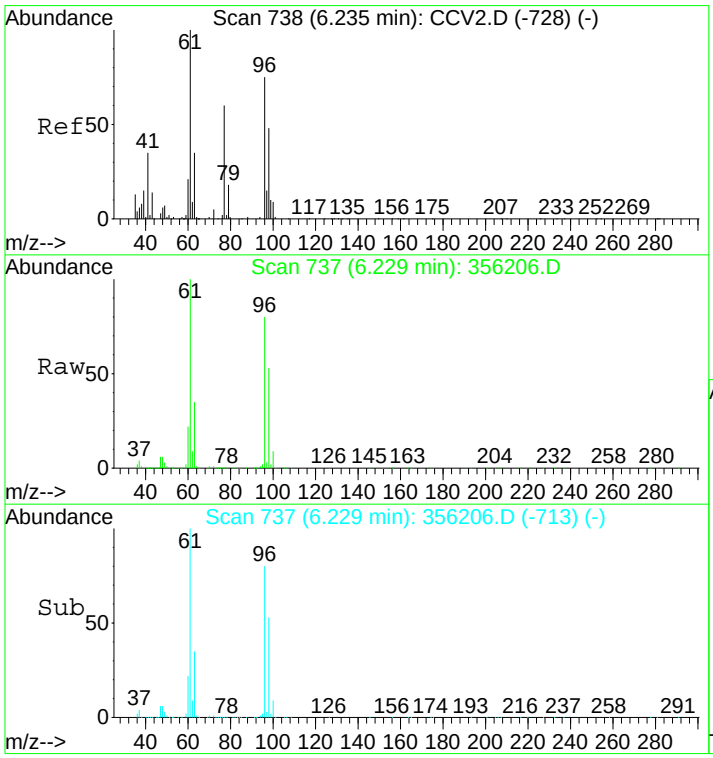


#22
t12dichlorte
Concen: 0.00 mg/kg
RT: 4.96 min Scan# 529
Delta R.T. 0.01 min
Lab File: 356206.D
Acq: 13 Nov 2019 17:52

Tgt Ion: 96 Resp: 10858

Ion	Ratio	Lower	Upper
96	100		
61	141.6	123.7	163.7
98	63.4	44.9	84.9

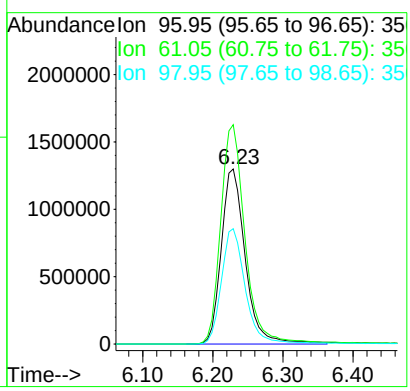


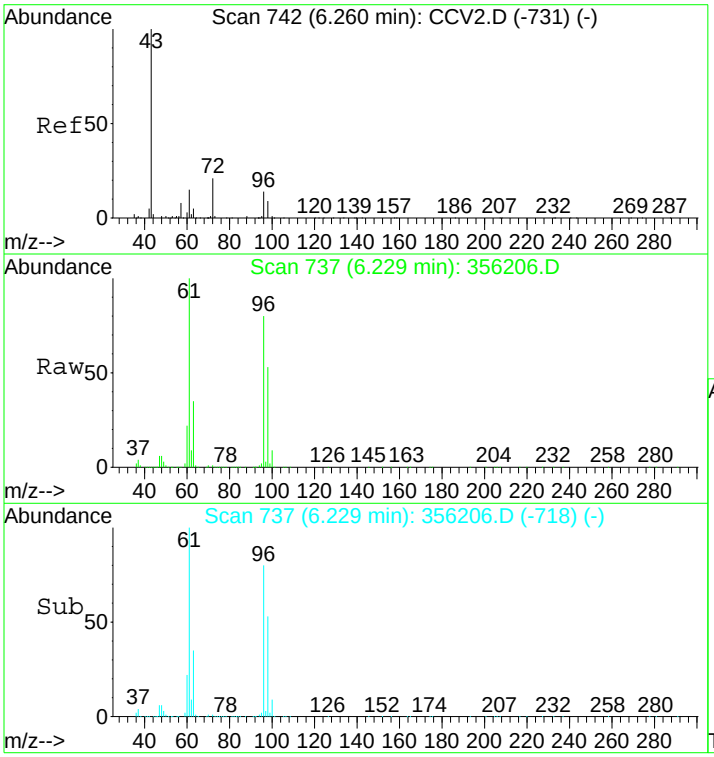


#32
c12dichlorte
Concen: 0.23 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.01 min
Lab File: 356206.D
Acq: 13 Nov 2019 17:52

Tgt Ion: 96 Resp: 3094687

Ion	Ratio	Lower	Upper
96	100		
61	126.5	128.4	168.4#
98	65.5	44.3	84.3

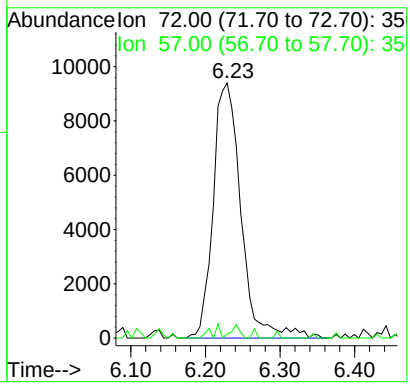




#33
2Butanone
Concen: 0.02 mg/kg
RT: 6.23 min Scan# 737
Delta R.T. -0.04 min
Lab File: 356206.D
Acq: 13 Nov 2019 17:52

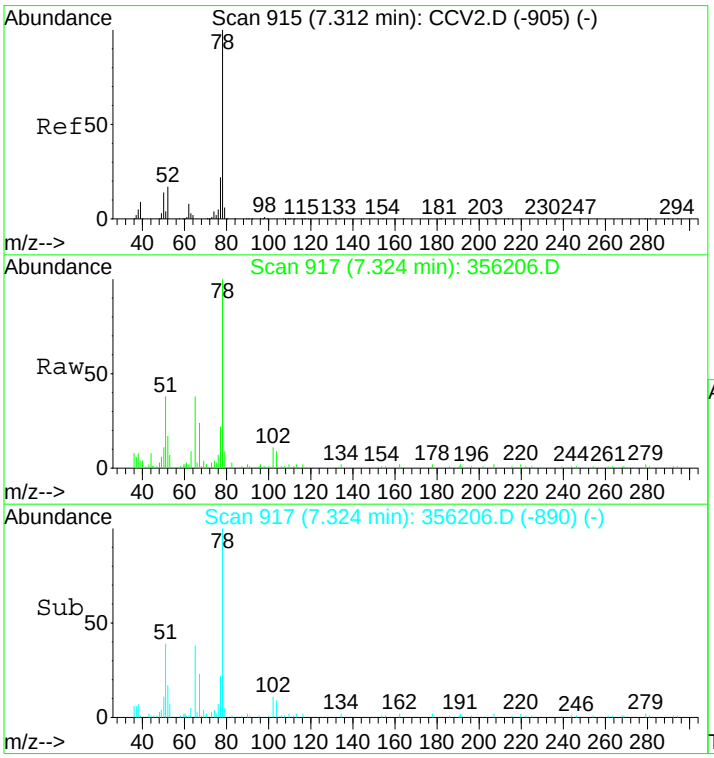
Tgt Ion: 72 Resp: 24284

Ion	Ratio	Lower	Upper
72	100		
57	0.0	17.0	57.0#



Negative Library Identification

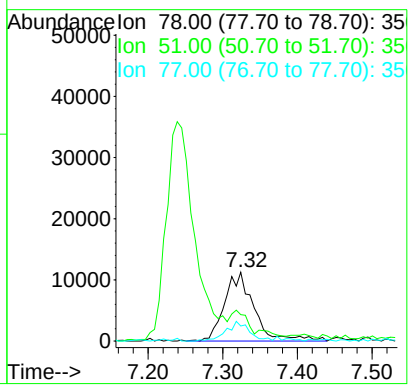
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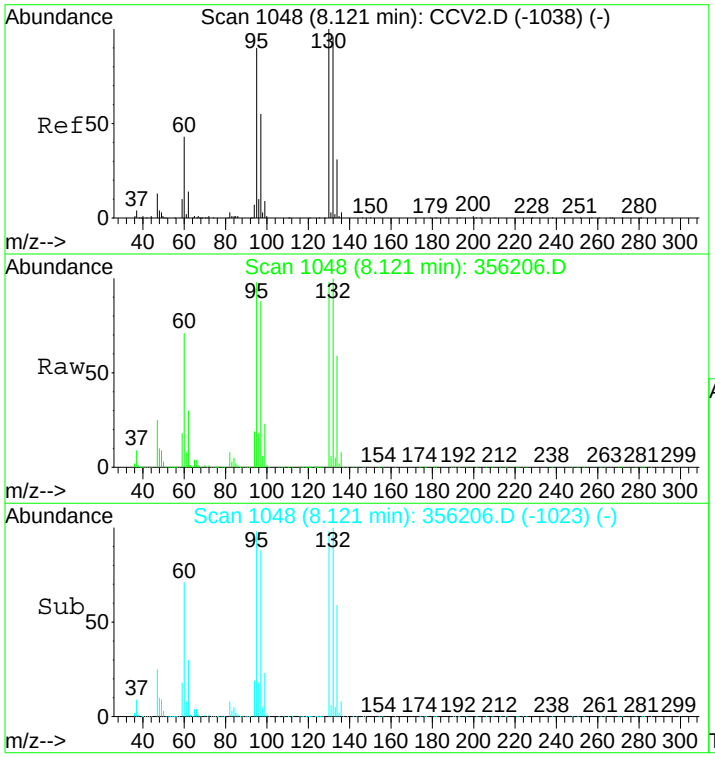


#46
Benzene
Concen: 0.00 mg/kg
RT: 7.32 min Scan# 917
Delta R.T. 0.01 min
Lab File: 356206.D
Acq: 13 Nov 2019 17:52

Tgt Ion: 78 Resp: 30897

Ion	Ratio	Lower	Upper
78	100		
51	0.0	0.0	39.4
77	22.1	1.6	41.6

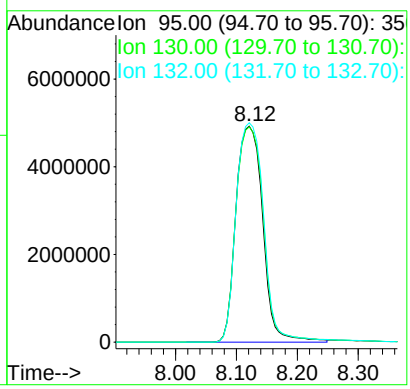


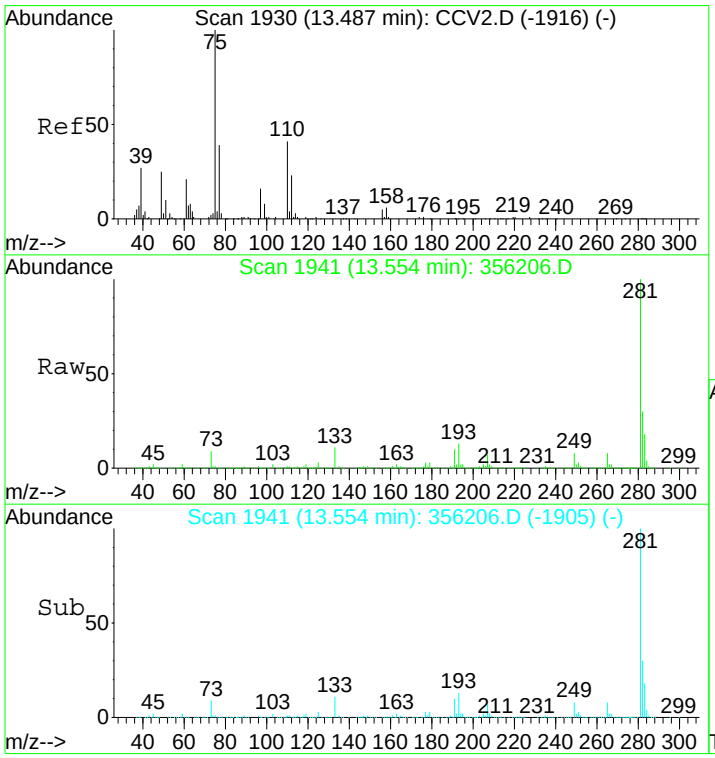


#49
trichloroete
Concen: 1.26 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356206.D
Acq: 13 Nov 2019 17:52

Tgt Ion: 95 Resp:15106371

Ion	Ratio	Lower	Upper
95	100		
130	102.2	94.7	134.7
132	104.2	91.8	131.8

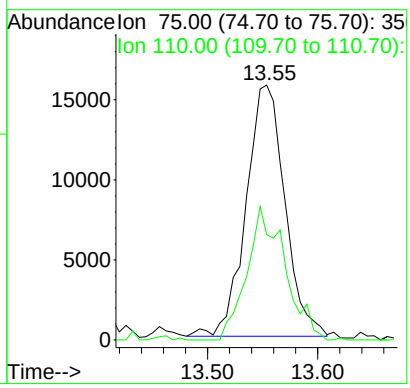




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356206.D
Acq: 13 Nov 2019 17:52

Tgt Ion: 75 Resp: 38485

Ion	Ratio	Lower	Upper
75	100		
110	52.1	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356174R.D Vial: 60
Acq On : 14 Nov 2019 11:14 Operator: RLD-DGS
Sample : 166497,356174, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 11:34:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	888334	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	693550	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	331031	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	236688	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 110 %		
45) SURR12DCAd4	7.24	102	50826	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	891205	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	292820	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 110 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2044	N.D.	
3) Chloromethan	2.07	50	2013	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.68	94	1655	Below Cal #	48
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.07	43	16659	N.D.	
16) Iodomethane	4.12	142	1803	0.0011 mg/kg #	70
17) Carbon Dislf	4.20	76	9754	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	6477	Below Cal #	3
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.77	59	1011	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.34	57	1136	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356174R.D Vial: 60
Acq On : 14 Nov 2019 11:14 Operator: RLD-DGS
Sample : 166497,356174, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 11:34:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.33	78	1738	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	2745	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	1930	N.D.	
61)	Toluene	9.76	92	1068	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.29	83	1322	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1646	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.43	75	1473	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.61	91	1284	N.D.	
88)	2chlorotolue	13.61	91	1284	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1383	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.46	91	1169	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356174R.D Vial: 60
Acq On : 14 Nov 2019 11:14 Operator: RLD-DGS
Sample : 166497,356174, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 11:34:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

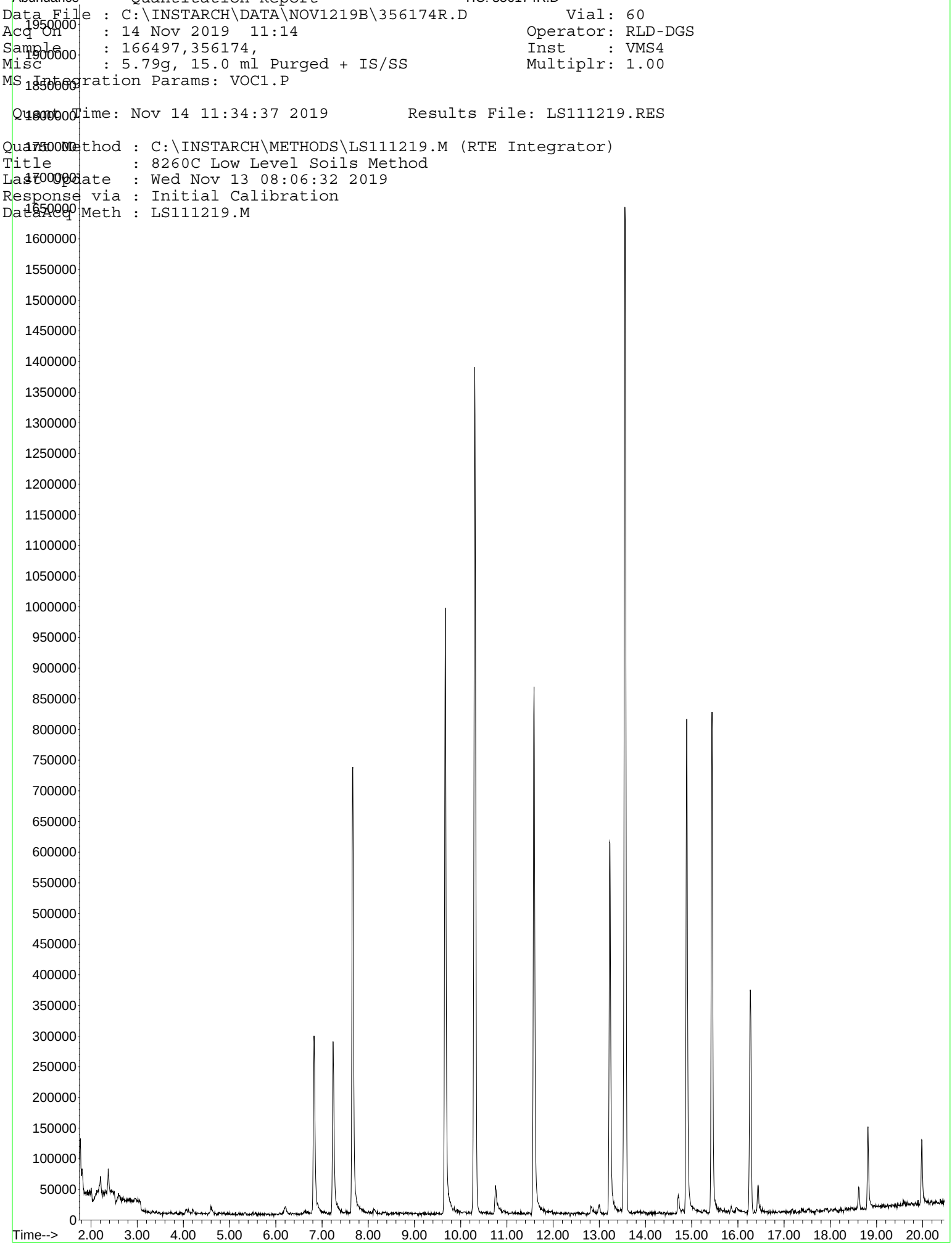
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	3695	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219B\356174R.D Vial: 60
Acq On : 14 Nov 2019 11:14 Operator: RLD-DGS
Sample : 166497,356174, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 11:34:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356175R.D Vial: 61
Acq On : 14 Nov 2019 11:43 Operator: RLD-DGS
Sample : 166497,356175, Inst : VMS4
Misc : 6.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Dec 02 13:29:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	809501	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	614154	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	270422	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	209312	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	43934	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	818256	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	253250	0.023 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 115 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2053	N.D.	
3) Chloromethan	2.06	50	1292	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.68	94	1793	Below Cal	100
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	29497	0.0109 mg/kg	95
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	24963	0.0009 mg/kg	94
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	18918	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.80	59	11891	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.32	57	6903	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	2257	N.D.	
31) 22dichloropr	6.20	77	5750	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.67	42	1057	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356175R.D Vial: 61
Acq On : 14 Nov 2019 11:43 Operator: RLD-DGS
Sample : 166497,356175, Inst : VMS4
Misc : 6.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Dec 02 13:29:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	6.92	56	1241	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.32	78	3939	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.13	95	14543	0.0014	mg/kg	87
50)	methylcyclohexane	8.37	83	1560	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.53	43	3710	N.D.		
61)	Toluene	9.76	92	6415	N.D.		
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	10.32	83	1688	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	10.71	43	1222	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1Clhexane	11.58	91	1291	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.80	91	2141	N.D.		
75)	m p-Xylene	11.94	106	1209	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.44	75	1191	N.D.		
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.61	91	1224	N.D.		
88)	2chlorotolue	13.61	91	1224	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	0.00	105	0	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.41	105	2923	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	0.00	119	0	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.43	91	1831	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356175R.D Vial: 61
Acq On : 14 Nov 2019 11:43 Operator: RLD-DGS
Sample : 166497,356175, Inst : VMS4
Misc : 6.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Dec 02 13:29:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.01	128	3481	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

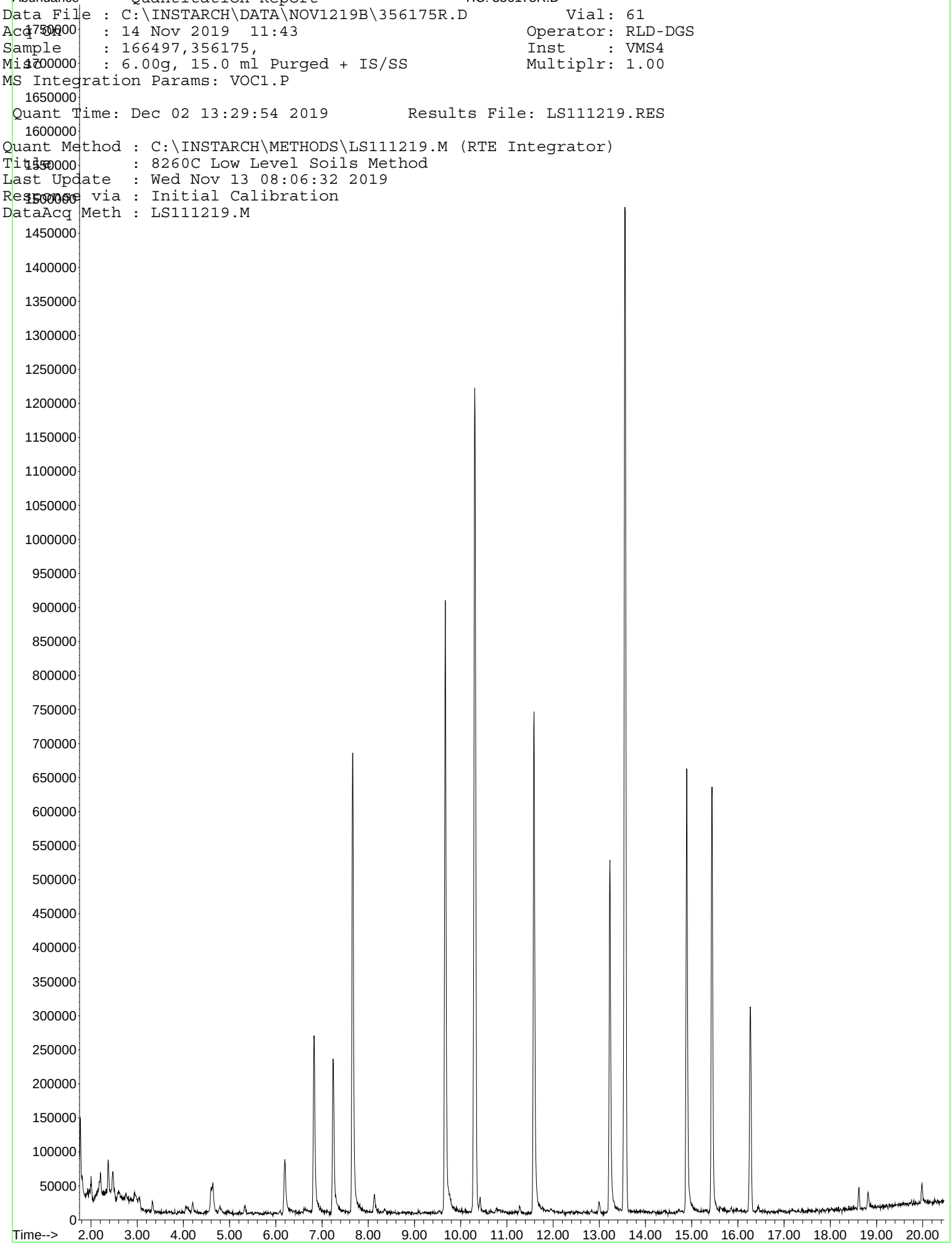
(#) = qualifier out of range (m) = manual integration

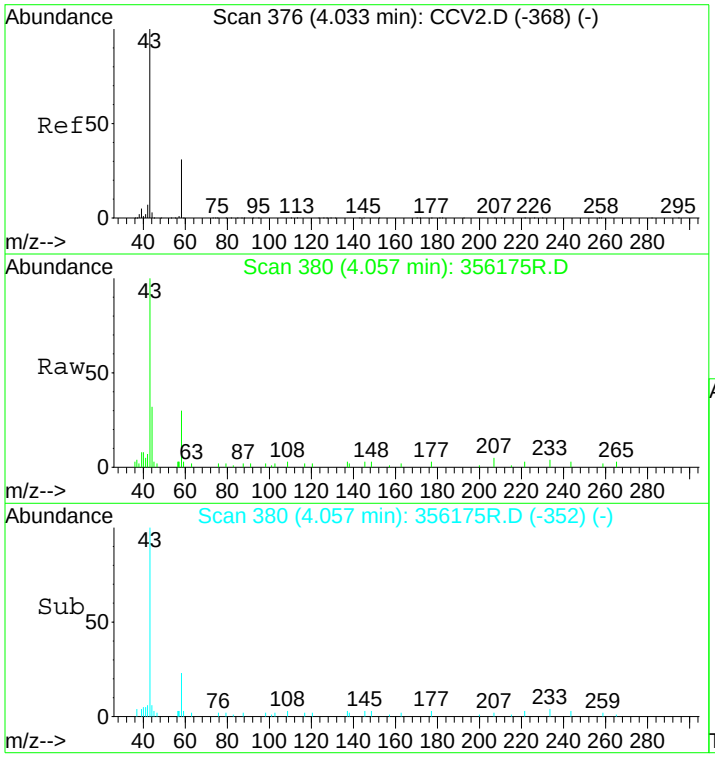
Abundance Quantitation Report TIC: 356175R.D

Data File : C:\INSTARCH\DATA\NOV1219B\356175R.D Vial: 61
Acq On : 14 Nov 2019 11:43 Operator: RLD-DGS
Sample : 166497,356175, Inst : VMS4
Misc : 6.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Dec 02 13:29:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

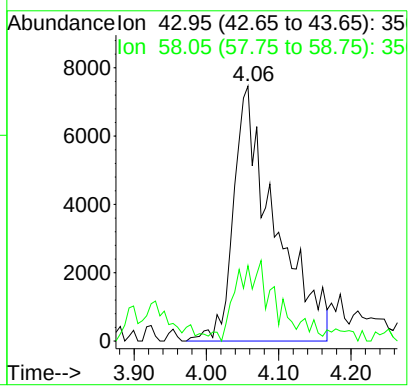


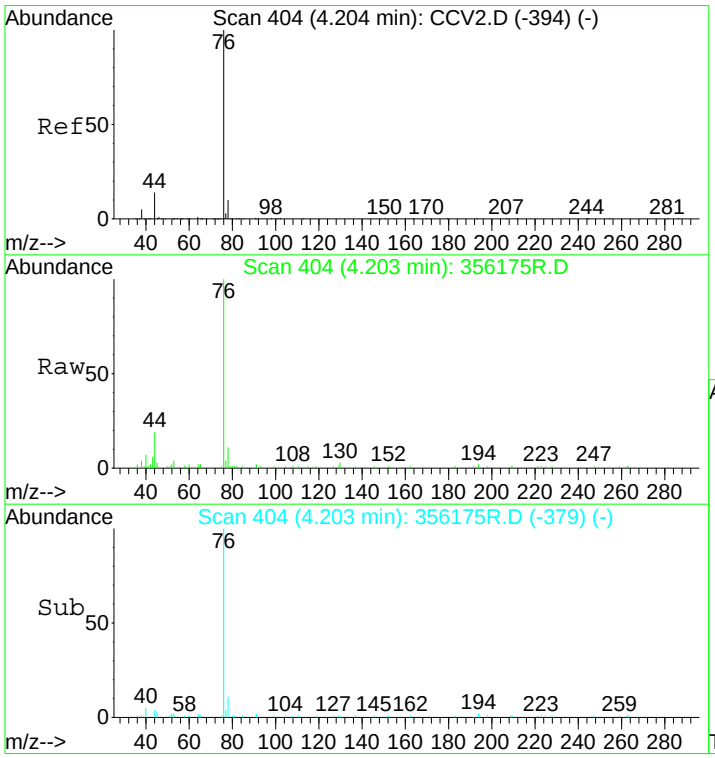


#15
Acetone
Concen: 0.01 mg/kg
RT: 4.06 min Scan# 380
Delta R.T. 0.02 min
Lab File: 356175R.D
Acq: 14 Nov 2019 11:43

Tgt Ion: 43 Resp: 29497

Ion	Ratio	Lower	Upper
43	100		
58	30.4	7.7	47.7

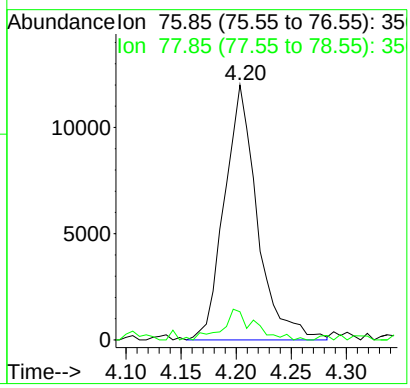


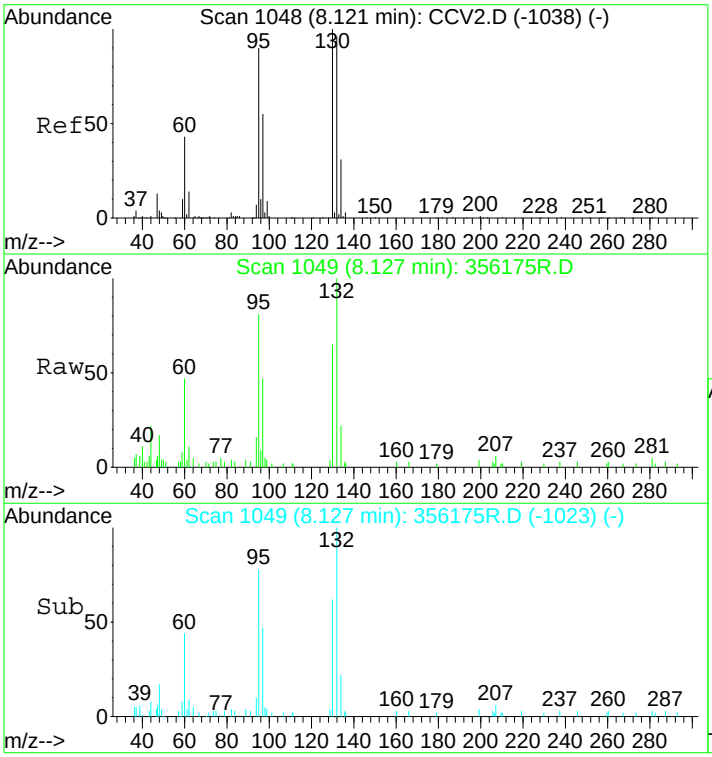


#17
Carbon Dislf
Concen: 0.00 mg/kg
RT: 4.20 min Scan# 404
Delta R.T. -0.00 min
Lab File: 356175R.D
Acq: 14 Nov 2019 11:43

Tgt Ion: 76 Resp: 24963

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	29.4

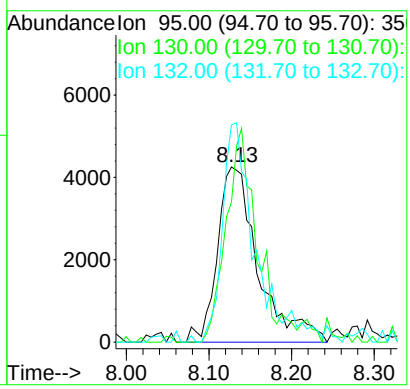




#49
trichloroete
Concen: 0.00 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356175R.D
Acq: 14 Nov 2019 11:43

Tgt Ion: 95 Resp: 14543

Ion	Ratio	Lower	Upper
95	100		
130	96.4	94.7	134.7
132	102.0	91.8	131.8



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356177R.D Vial: 62
Acq On : 14 Nov 2019 12:12 Operator: RLD-DGS
Sample : 166497,356177, Inst : VMS4
Misc : 7.10g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 12:32:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	706421	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	528654	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	204392	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	191944	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 110 %		
45) SURR12DCAd4	7.25	102	41529	0.023 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %		
60) SURRd8Tolule	9.67	98	683449	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %		
82) SURR4BrFBenz	13.23	95	200811	0.024 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 120 %#		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.07	50	1948	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	1778	Below Cal #	1
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	45531	0.0193 mg/kg	99
16) Iodomethane	4.14	142	1764	0.0012 mg/kg#	44
17) Carbon Dislf	4.20	76	1561	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	14557	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	13782	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.32	57	4287	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	3813	N.D.	
31) 22dichloropr	6.19	77	7885	0.0006 mg/kg#	45
32) c12dichlorte	6.26	96	3137	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.63	42	1071	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356177R.D Vial: 62
Acq On : 14 Nov 2019 12:12 Operator: RLD-DGS
Sample : 166497,356177, Inst : VMS4
Misc : 7.10g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 12:32:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.34	78	1537	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.13	95	15028	0.0016	mg/kg	93
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.53	43	2555	N.D.		
61)	Toluene	9.76	92	1406	N.D.		
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	10.30	83	1365	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	0.00	43	0	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1Clhexane	11.60	91	1311	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	0.00	91	0	N.D.		
75)	m p-Xylene	11.97	106	1655	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.56	75	19420	0.0023	mg/kg#	48
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	0.00	91	0	N.D.		
88)	2chlorotolue	0.00	91	0	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	0.00	105	0	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.39	105	2076	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	0.00	119	0	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	0.00	91	0	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356177R.D Vial: 62
Acq On : 14 Nov 2019 12:12 Operator: RLD-DGS
Sample : 166497,356177, Inst : VMS4
Misc : 7.10g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 12:32:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	2202	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

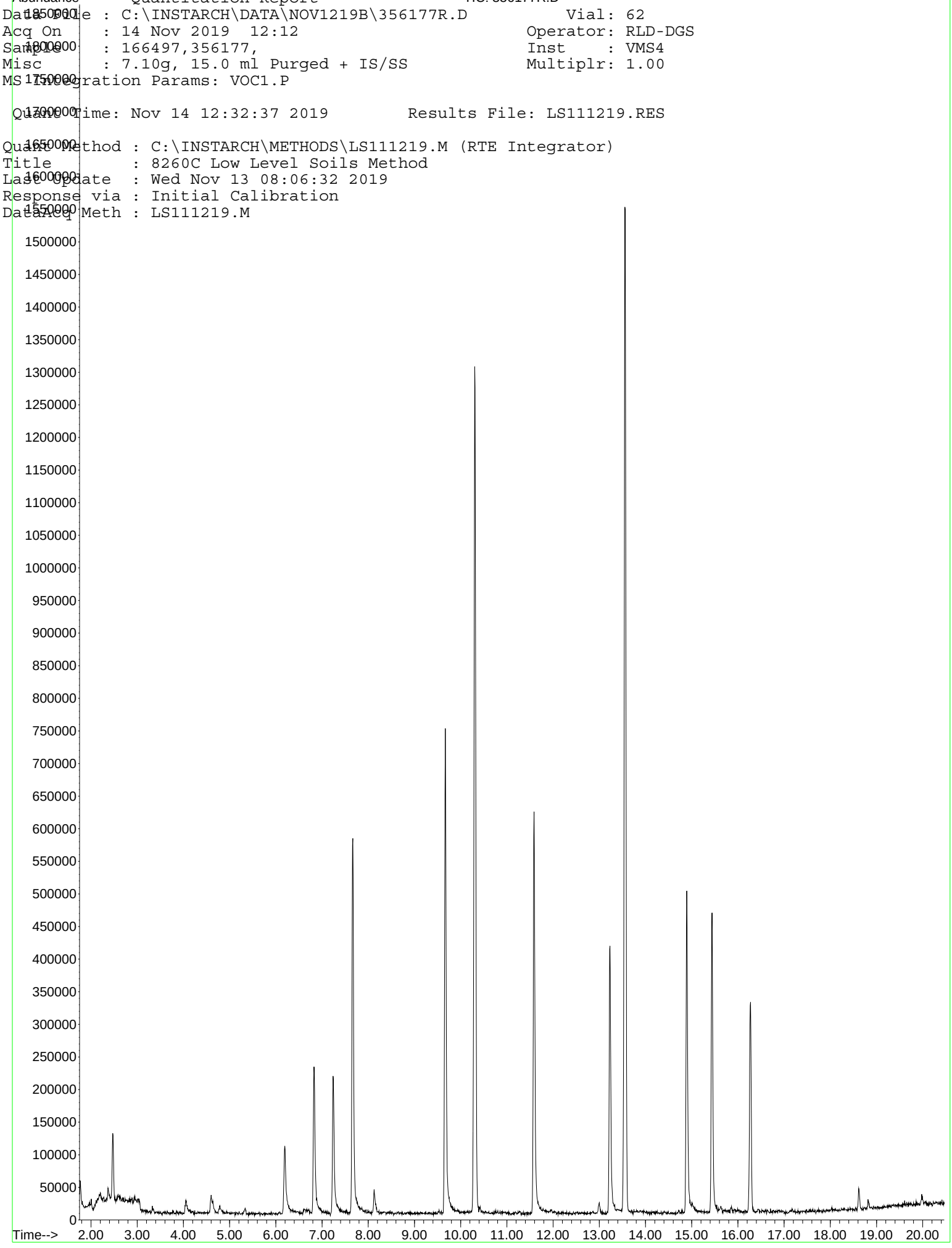
(#) = qualifier out of range (m) = manual integration

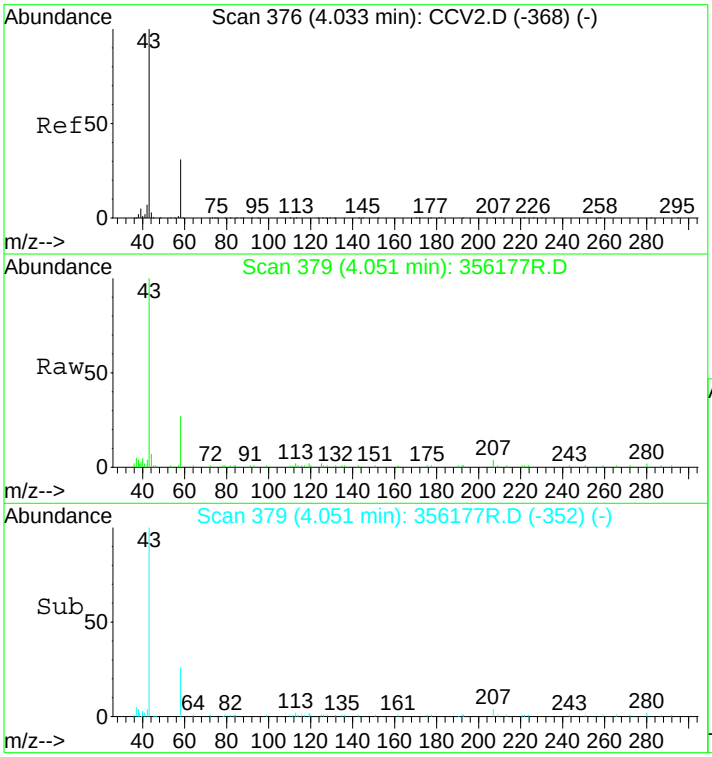
Abundance Quantitation Report TIC: 356177R.D

Data File : C:\INSTARCH\DATA\NOV1219B\356177R.D Vial: 62
Acq On : 14 Nov 2019 12:12 Operator: RLD-DGS
Sample : 166497,356177, Inst : VMS4
Misc : 7.10g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 12:32:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

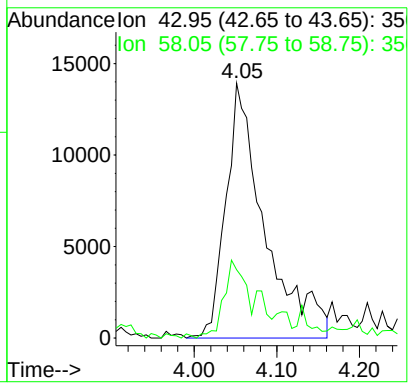


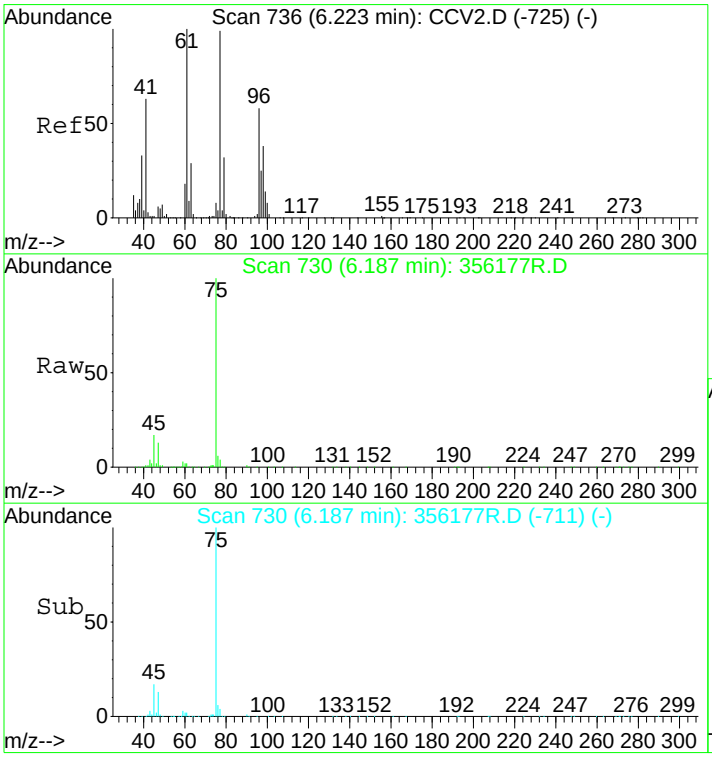


#15
Acetone
Concen: 0.02 mg/kg
RT: 4.05 min Scan# 379
Delta R.T. 0.01 min
Lab File: 356177R.D
Acq: 14 Nov 2019 12:12

Tgt Ion: 43 Resp: 45531

Ion	Ratio	Lower	Upper
43	100		
58	27.4	7.7	47.7

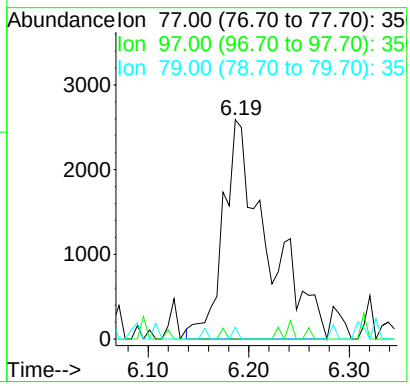




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.19 min Scan# 730
Delta R.T. -0.04 min
Lab File: 356177R.D
Acq: 14 Nov 2019 12:12

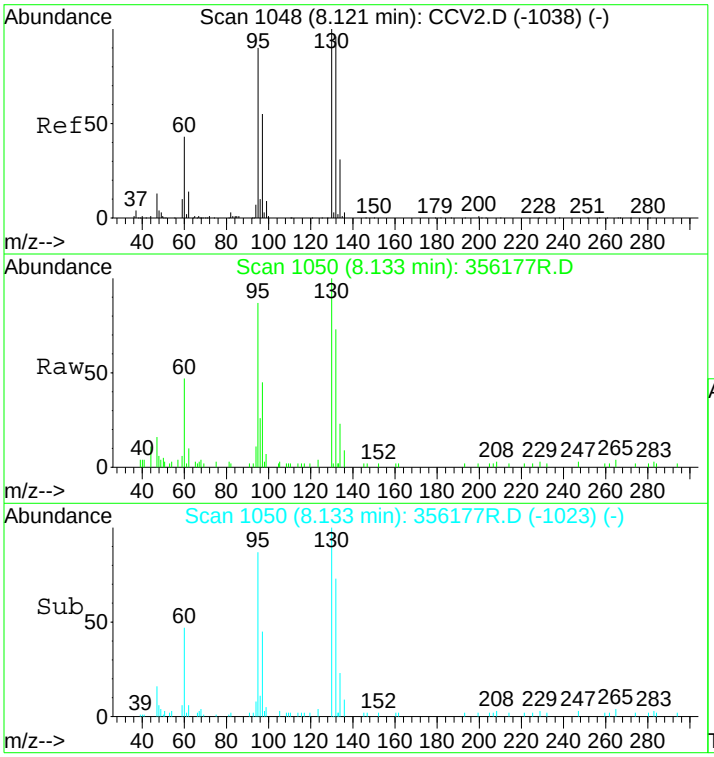
Tgt Ion: 77 Resp: 7885

Ion	Ratio	Lower	Upper
77	100		
97	0.0	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

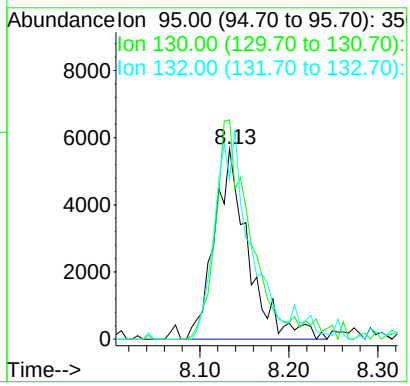
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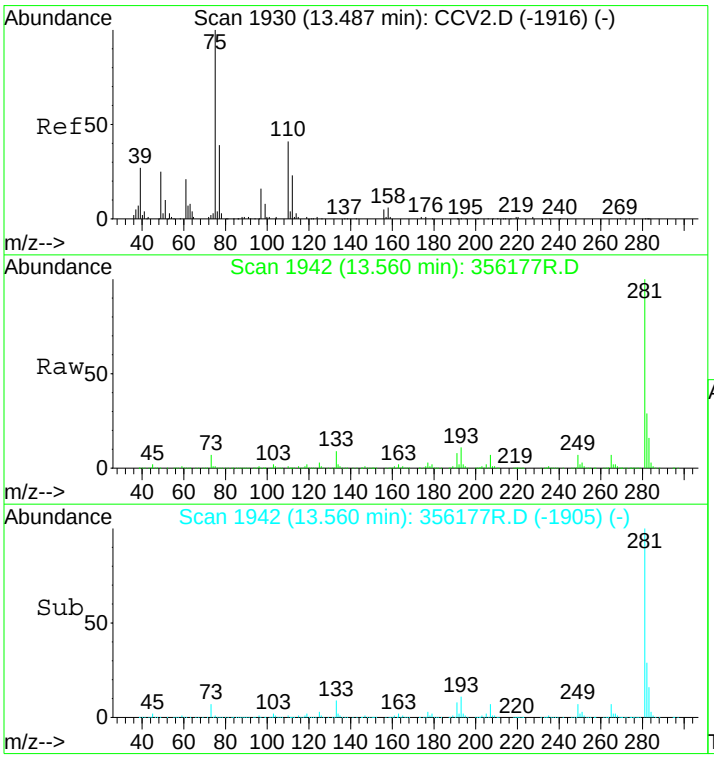


#49
trichloroete
Concen: 0.00 mg/kg
RT: 8.13 min Scan# 1050
Delta R.T. 0.01 min
Lab File: 356177R.D
Acq: 14 Nov 2019 12:12

Tgt Ion: 95 Resp: 15028

Ion	Ratio	Lower	Upper
95	100		
130	122.7	94.7	134.7
132	118.9	91.8	131.8

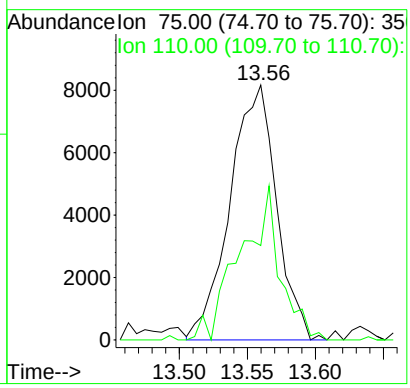




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.56 min Scan# 1942
Delta R.T. 0.07 min
Lab File: 356177R.D
Acq: 14 Nov 2019 12:12

Tgt Ion: 75 Resp: 19420

Ion	Ratio	Lower	Upper
75	100		
110	51.8	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356178R.D Vial: 63
Acq On : 14 Nov 2019 12:41 Operator: RLD-DGS
Sample : 166497,356178, Inst : VMS4
Misc : 5.50g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:01:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	925971	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	712965	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	320348	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	250007	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 110 %		
45) SURR12DCAd4	7.24	102	48458	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %		
60) SURRd8Tolule	9.67	98	930816	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	293216	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 110 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2058	N.D.	
3) Chloromethan	2.06	50	2182	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	2329	Below Cal	99
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	23395	N.D.	
16) Iodomethane	4.12	142	1708	0.0011 mg/kg#	44
17) Carbon Dislf	4.20	76	14742	N.D.	
18) allylchloride	4.48	41	1979	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	26627	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.78	59	23605	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	6847	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	4473	N.D.	
31) 22dichloropr	6.20	77	10476	0.0006 mg/kg#	45
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	6.18	72	1471	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.63	42	2534	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356178R.D Vial: 63
Acq On : 14 Nov 2019 12:41 Operator: RLD-DGS
Sample : 166497,356178, Inst : VMS4
Misc : 5.50g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:01:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	6.92	56	1377	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.31	78	4489	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.14	95	2804	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	5566	N.D.	
61)	Toluene	9.76	92	11294	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.32	83	2000	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1847	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	11.95	106	1100	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.23	55	1269	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.54	75	19038	0.0014 mg/kg#	44
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	0.00	91	0	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.42	105	1135	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.43	91	1100	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356178R.D Vial: 63
Acq On : 14 Nov 2019 12:41 Operator: RLD-DGS
Sample : 166497,356178, Inst : VMS4
Misc : 5.50g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:01:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	1813	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

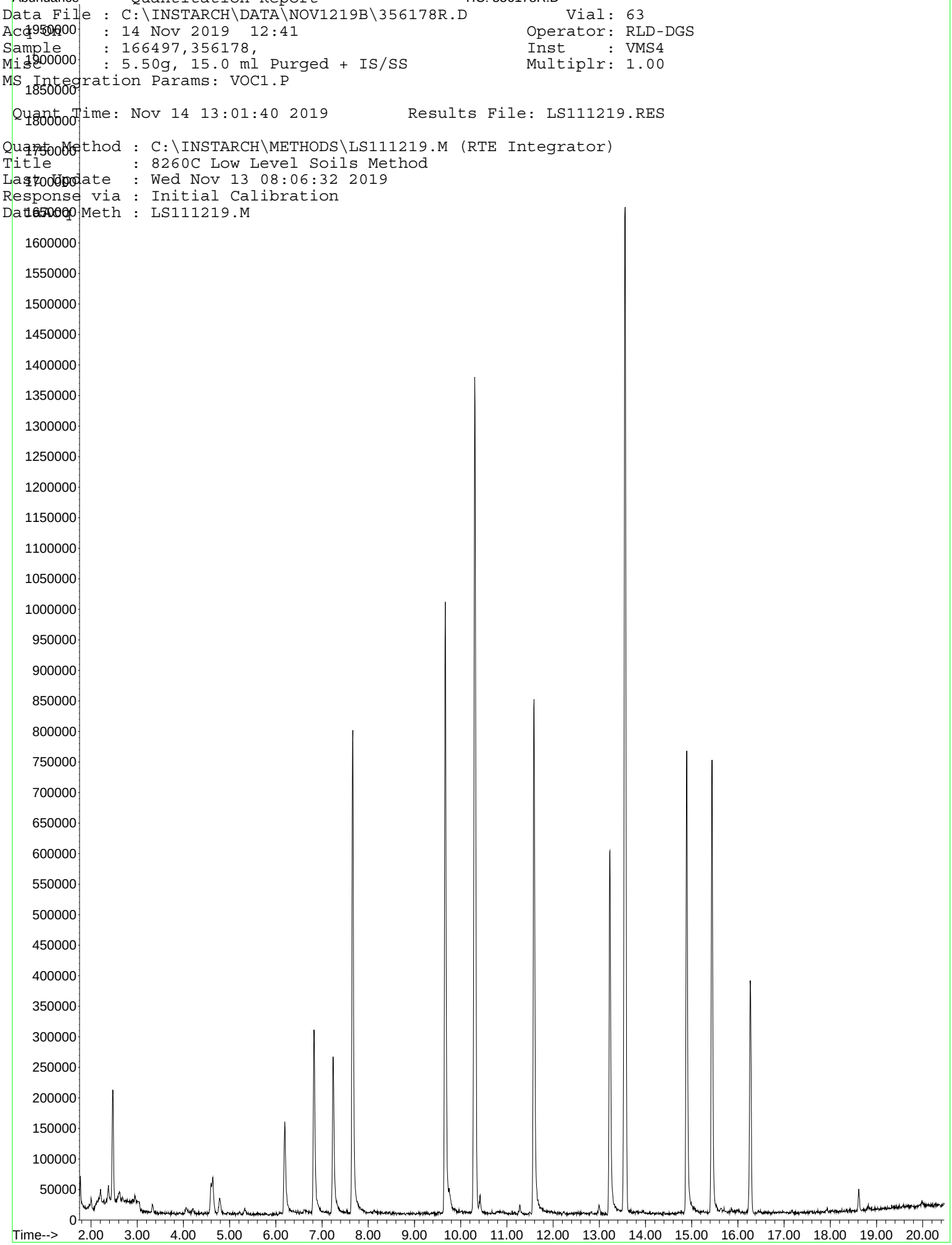
(#) = qualifier out of range (m) = manual integration

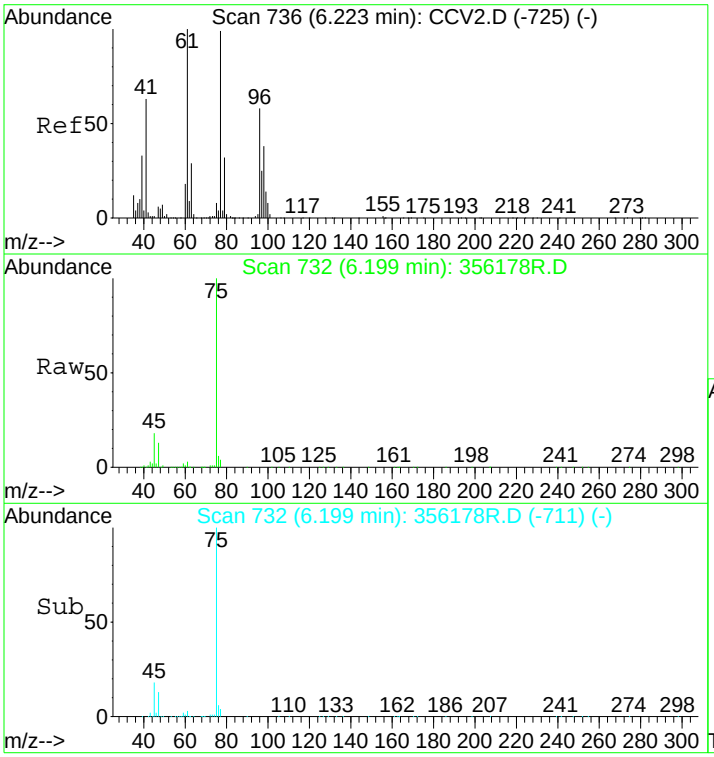
Abundance Quantitation Report TIC: 356178R.D

Data File : C:\INSTARCH\DATA\NOV1219B\356178R.D Vial: 63
Acq On : 14 Nov 2019 12:41 Operator: RLD-DGS
Sample : 166497,356178, Inst : VMS4
Misc : 5.50g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:01:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
Data Meth : LS111219.M

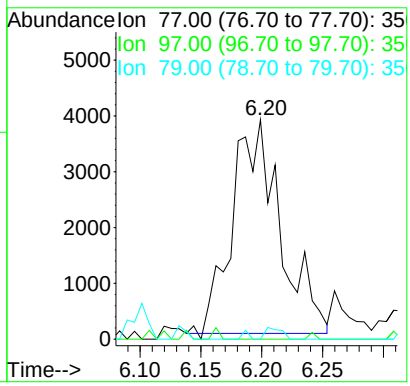




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.20 min Scan# 732
Delta R.T. -0.02 min
Lab File: 356178R.D
Acq: 14 Nov 2019 12:41

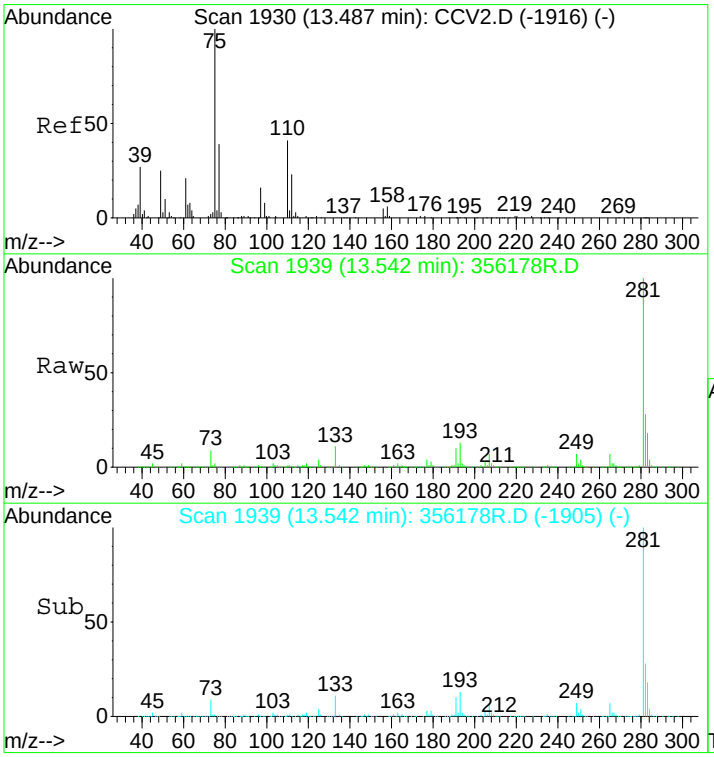
Tgt Ion: 77 Resp: 10476

Ion	Ratio	Lower	Upper
77	100		
97	0.0	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

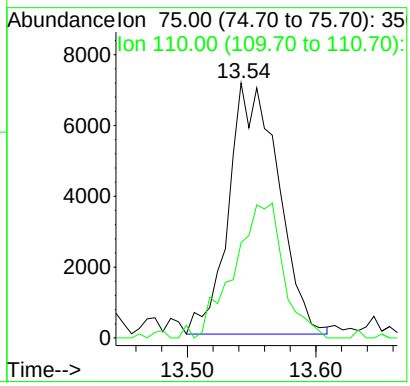
[redacted]



#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.54 min Scan# 1939
Delta R.T. 0.05 min
Lab File: 356178R.D
Acq: 14 Nov 2019 12:41

Tgt Ion: 75 Resp: 19038

Ion	Ratio	Lower	Upper
75	100		
110	53.7	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356180R.D Vial: 64
Acq On : 14 Nov 2019 13:10 Operator: RLD-DGS
Sample : 166497,356180, Inst : VMS4
Misc : 5.30g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:30:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	890204	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	700433	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	360045	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	230072	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	49812	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	886556	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	300062	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.06	50	1946	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.68	94	1214	Below Cal	96
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	15737	N.D.	
16) Iodomethane	4.12	142	1954	0.0012 mg/kg#	44
17) Carbon Dislf	4.20	76	1981	N.D.	
18) allylchloride	4.48	41	1232	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	13734	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.80	59	5957	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	19382	0.0011 mg/kg	90
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	1153	N.D.	
31) 22dichloropr	6.20	77	2487	N.D.	
32) c12dichlorte	6.24	96	1707	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356180R.D Vial: 64
Acq On : 14 Nov 2019 13:10 Operator: RLD-DGS
Sample : 166497,356180, Inst : VMS4
Misc : 5.30g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:30:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.32	78	3351	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.13	95	11719	0.0010	mg/kg	93
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.53	43	5207	N.D.		
61)	Toluene	9.75	92	3547	N.D.		
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	10.29	83	1029	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	0.00	43	0	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1Clhexane	11.58	91	1664	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.79	91	1157	N.D.		
75)	m p-Xylene	0.00	106	0	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	13.23	55	1322	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.55	75	19198	0.0013	mg/kg#	60
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	0.00	91	0	N.D.		
88)	2chlorotolue	0.00	91	0	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	13.73	105	1021	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.40	105	2122	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	0.00	119	0	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	0.00	91	0	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356180R.D Vial: 64
Acq On : 14 Nov 2019 13:10 Operator: RLD-DGS
Sample : 166497,356180, Inst : VMS4
Misc : 5.30g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:30:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

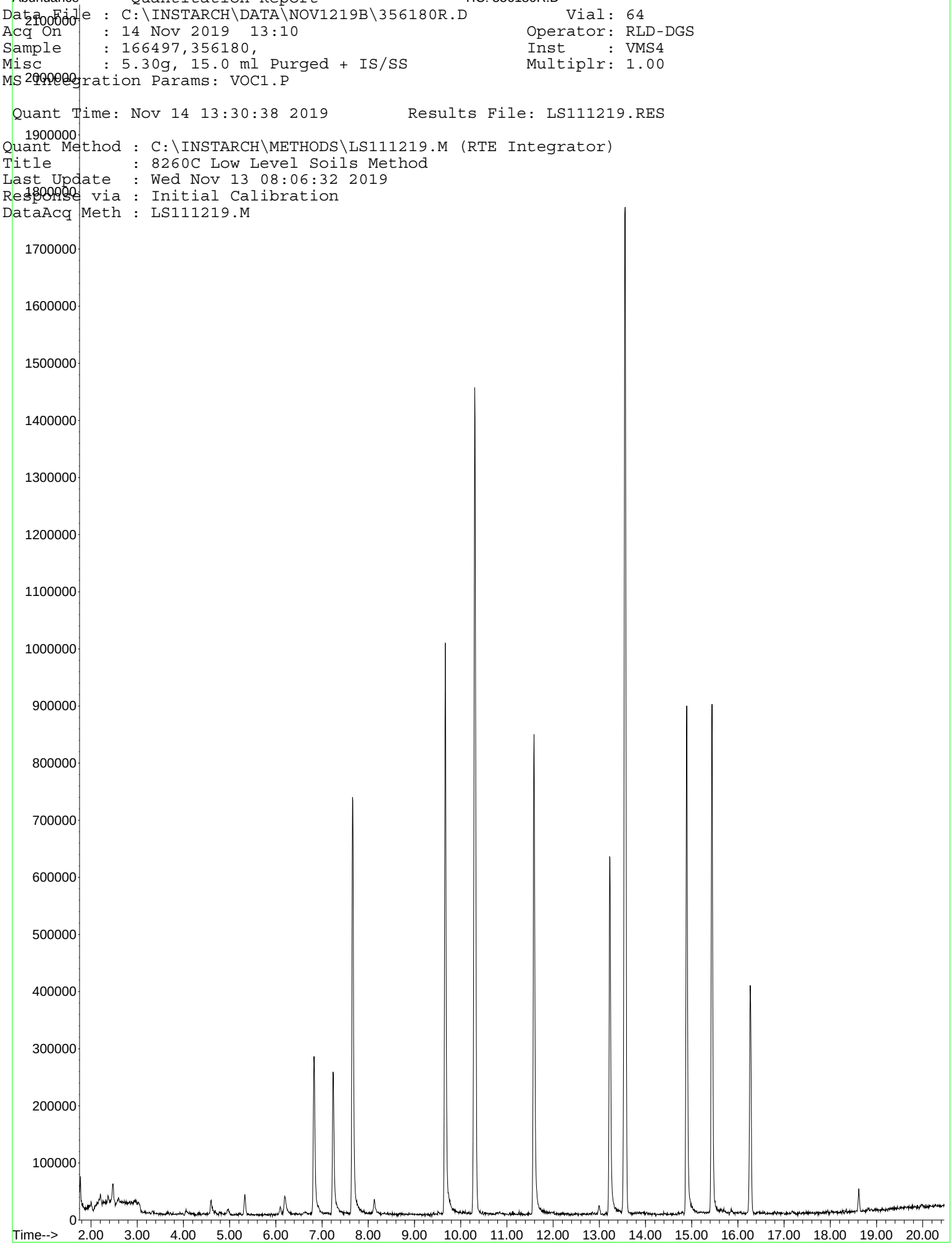
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	1985	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

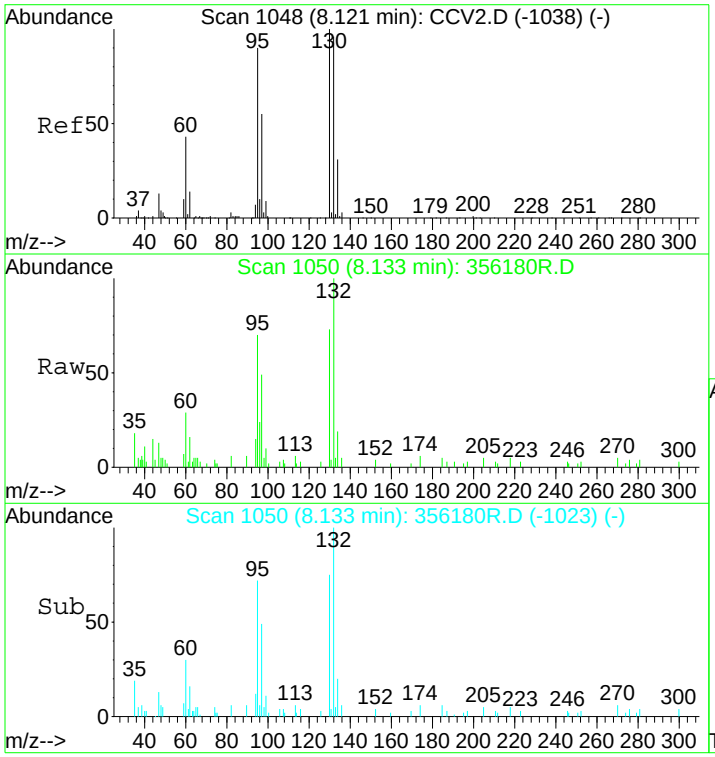
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219B\356180R.D Vial: 64
Acq On : 14 Nov 2019 13:10 Operator: RLD-DGS
Sample : 166497,356180, Inst : VMS4
Misc : 5.30g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:30:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

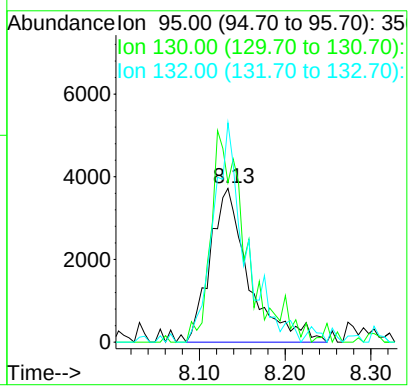


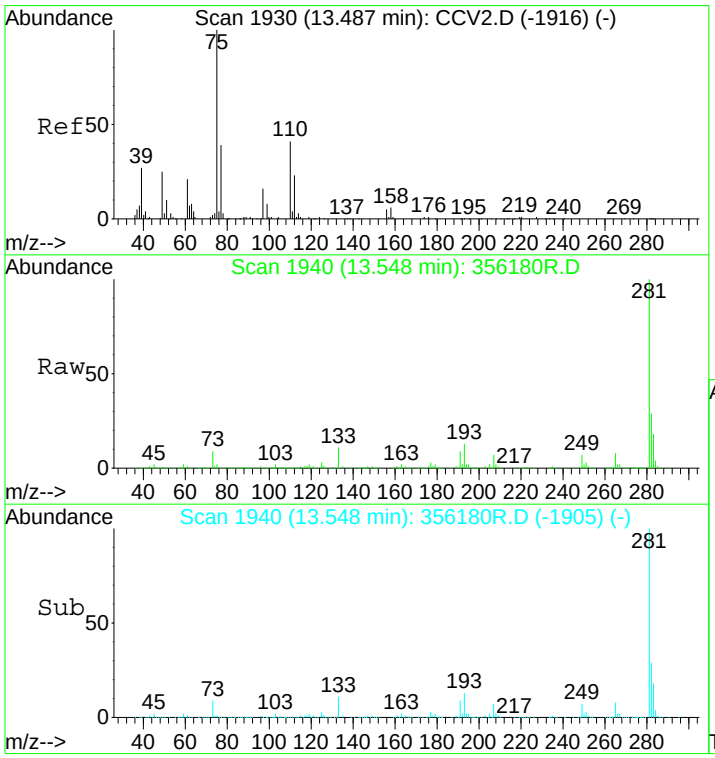


#49
trichloroete
Concen: 0.00 mg/kg
RT: 8.13 min Scan# 1050
Delta R.T. 0.01 min
Lab File: 356180R.D
Acq: 14 Nov 2019 13:10

Tgt Ion: 95 Resp: 11719

Ion	Ratio	Lower	Upper
95	100		
130	124.4	94.7	134.7
132	116.3	91.8	131.8

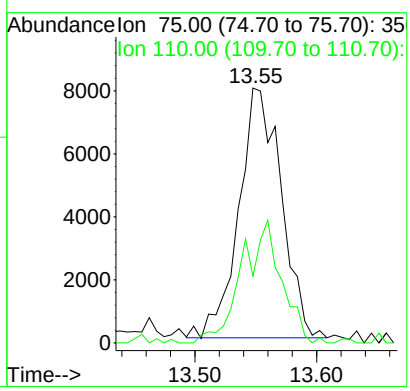




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1940
Delta R.T. 0.06 min
Lab File: 356180R.D
Acq: 14 Nov 2019 13:10

Tgt Ion: 75 Resp: 19198

Ion	Ratio	Lower	Upper
75	100		
110	46.1	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181R.D Vial: 65
Acq On : 14 Nov 2019 13:39 Operator: RLD-DGS
Sample : 166497,356181, Inst : VMS4
Misc : 5.56g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:59:41 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	826700	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	657789	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	333017	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	215797	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	46014	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	830015	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	282578	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.08	50	1620	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.68	94	1230	Below Cal	82
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	3.20	101	2040	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	15833	N.D.	
16) Iodomethane	4.14	142	1226	0.0010 mg/kg#	44
17) Carbon Dislf	4.19	76	1374	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	19953	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	17214	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	4350	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	3081	N.D.	
31) 22dichloropr	6.20	77	7627	0.0005 mg/kg#	45
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.61	42	1229	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181R.D Vial: 65
Acq On : 14 Nov 2019 13:39 Operator: RLD-DGS
Sample : 166497,356181, Inst : VMS4
Misc : 5.56g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:59:41 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	6.92	56	1166	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.30	78	1588	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	1851	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.52	43	2799	N.D.	
61)	Toluene	9.76	92	5320	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.29	83	2194	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1604	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.79	91	1024	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	19576	0.0014 mg/kg#	56
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.55	91	1210	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1483	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.47	91	1473	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181R.D Vial: 65
Acq On : 14 Nov 2019 13:39 Operator: RLD-DGS
Sample : 166497,356181, Inst : VMS4
Misc : 5.56g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:59:41 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

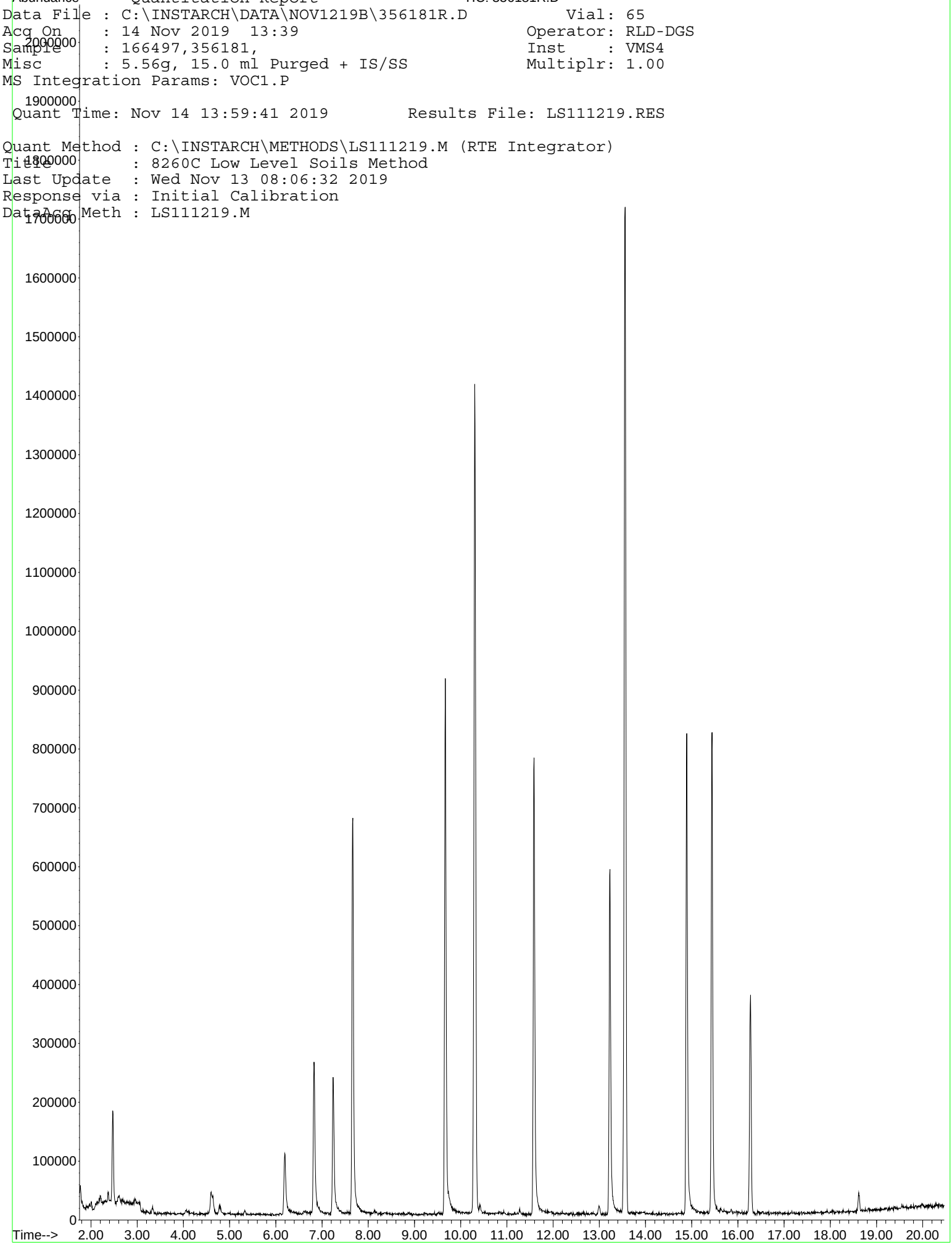
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	1351	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

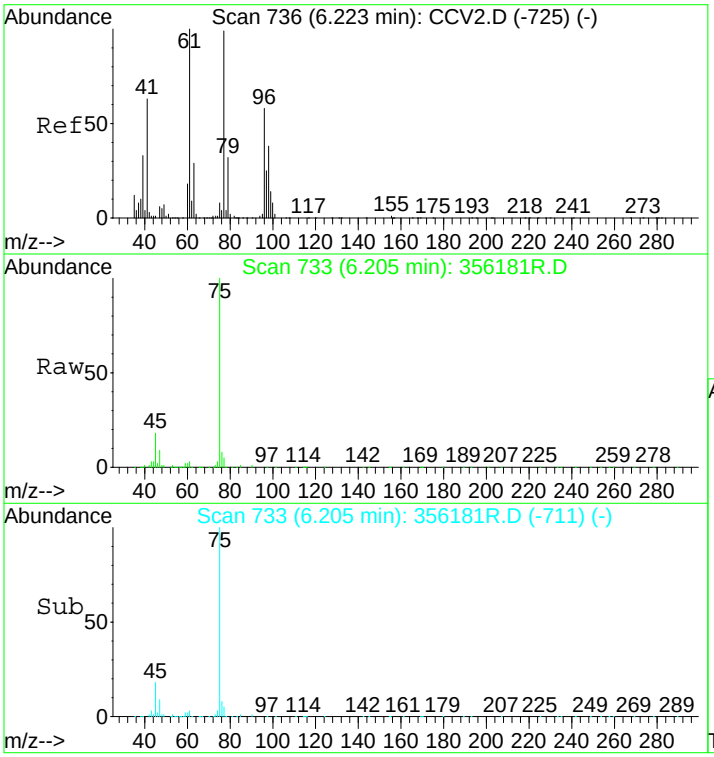
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219B\356181R.D Vial: 65
Acq On : 14 Nov 2019 13:39 Operator: RLD-DGS
Sample : 166497,356181, Inst : VMS4
Misc : 5.56g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 13:59:41 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

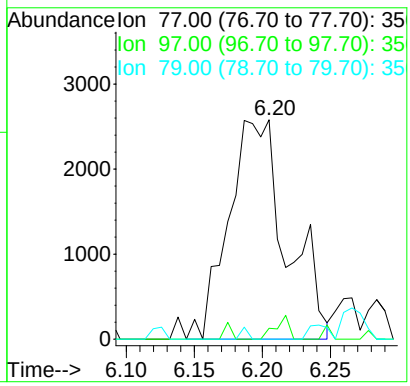




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.20 min Scan# 733
Delta R.T. -0.02 min
Lab File: 356181R.D
Acq: 14 Nov 2019 13:39

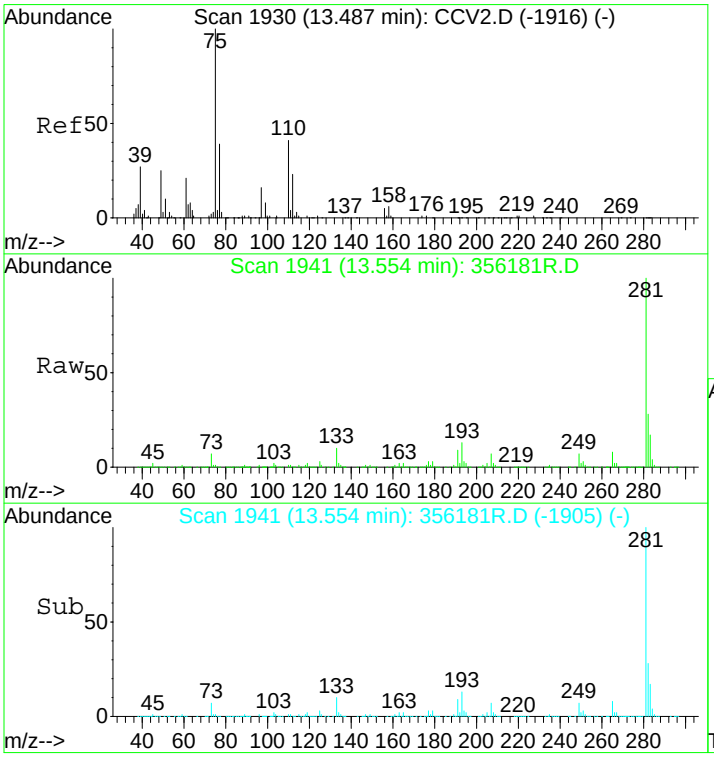
Tgt Ion: 77 Resp: 7627

Ion	Ratio	Lower	Upper
77	100		
97	0.0	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

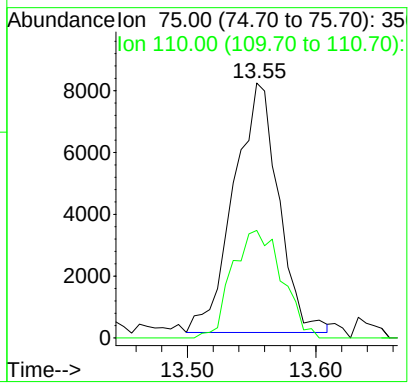
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#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356181R.D
Acq: 14 Nov 2019 13:39

Tgt Ion: 75 Resp: 19576

Ion	Ratio	Lower	Upper
75	100		
110	47.8	5.6	45.6#



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185R.D Vial: 66
Acq On : 14 Nov 2019 14:08 Operator: RLD-DGS
Sample : 166498,356185, Inst : VMS4
Misc : 6.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 14:28:45 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	913573	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	742673	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	393951	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	239582	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.25	102	53156	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	934950	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	321823	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.05	50	2134	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.68	94	1429	Below Cal #	80
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	3.21	101	6560	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.05	43	18888	N.D.	
16) Iodomethane	4.13	142	1159	0.0010 mg/kg#	44
17) Carbon Dislf	4.21	76	2153	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	18950	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.82	59	10264	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	2071	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	6.19	59	1414	N.D.	
31) 22dichloropr	6.20	77	3177	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.65	42	1974	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185R.D Vial: 66
Acq On : 14 Nov 2019 14:08 Operator: RLD-DGS
Sample : 166498,356185, Inst : VMS4
Misc : 6.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 14:28:45 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	8097	0.0007 mg/kg	88
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	8361	N.D.	
61)	Toluene	9.76	92	4490	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.30	83	2474	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1564	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	11.97	106	1119	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.22	55	1258	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.45	75	1745	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.55	91	1208	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	1382	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	0.00	119	0	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.43	91	1771	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185R.D Vial: 66
Acq On : 14 Nov 2019 14:08 Operator: RLD-DGS
Sample : 166498,356185, Inst : VMS4
Misc : 6.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 14:28:45 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	2249	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

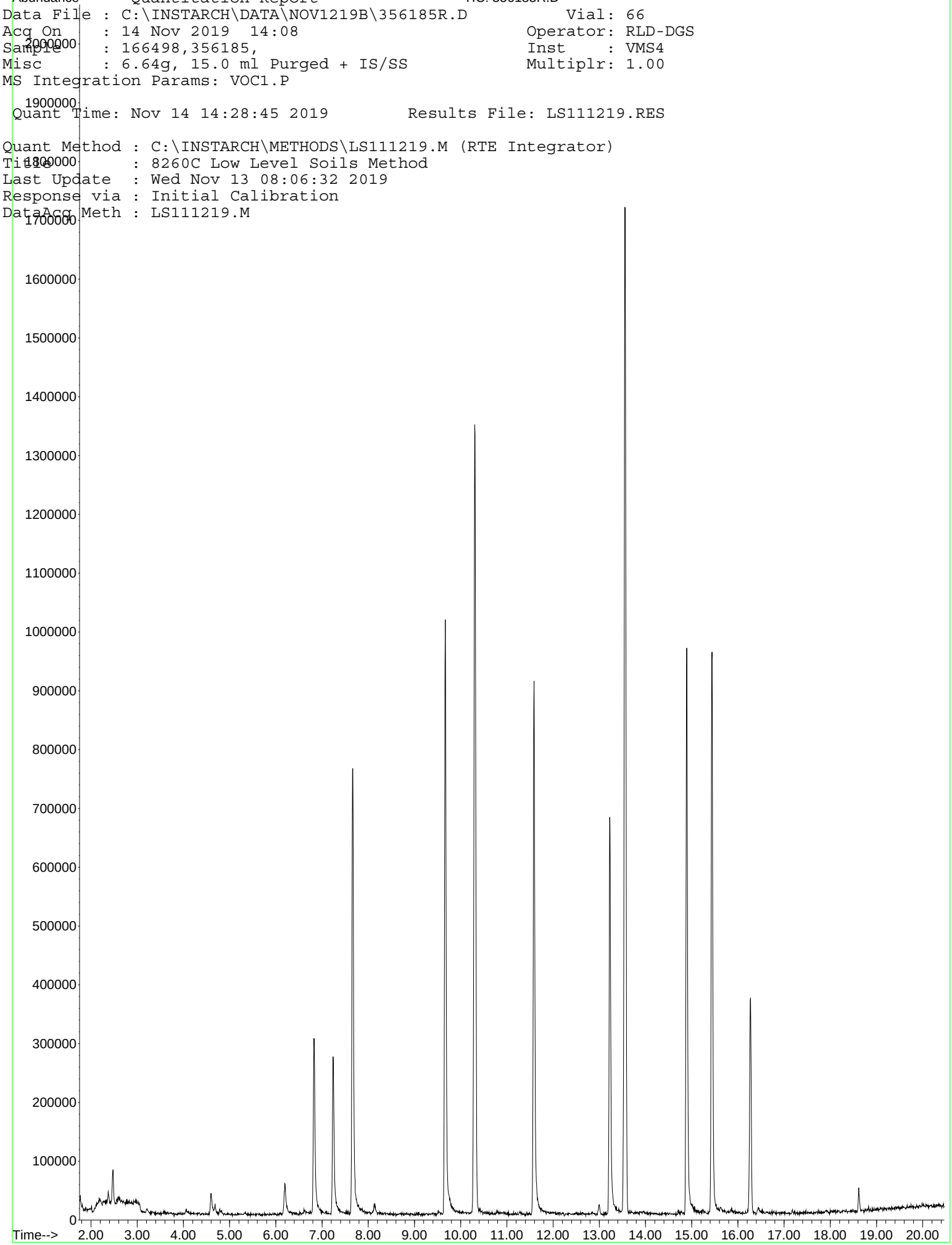
(#) = qualifier out of range (m) = manual integration

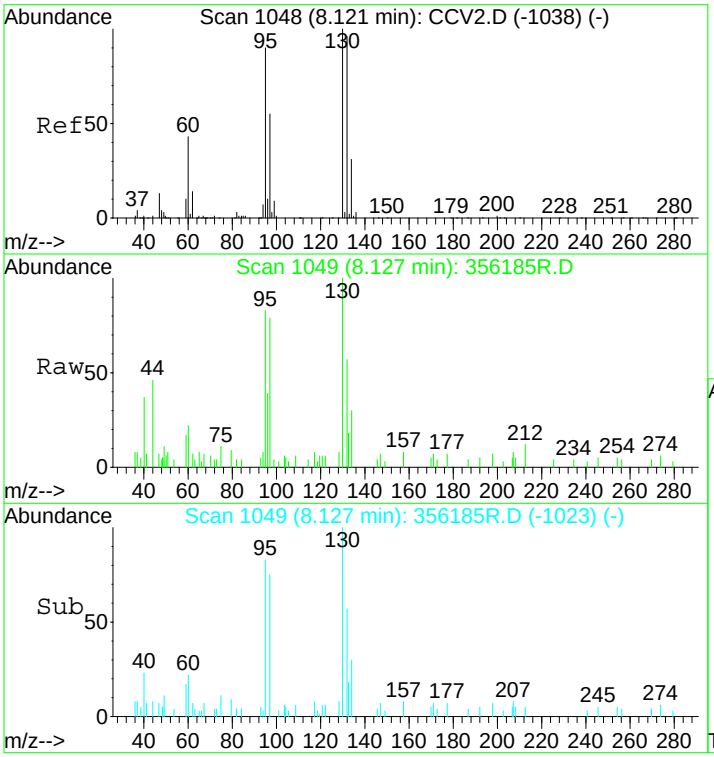
Abundance Quantitation Report TIC: 356185R.D

Data File : C:\INSTARCH\DATA\NOV1219B\356185R.D Vial: 66
Acq On : 14 Nov 2019 14:08 Operator: RLD-DGS
Sample : 166498,356185, Inst : VMS4
Misc : 6.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 14:28:45 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

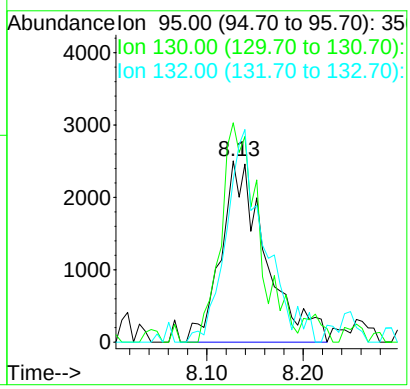




#49
trichloroete
Concen: 0.00 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356185R.D
Acq: 14 Nov 2019 14:08

Tgt Ion: 95 Resp: 8097

Ion	Ratio	Lower	Upper
95	100		
130	101.3	94.7	134.7
132	99.5	91.8	131.8



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356195R.D Vial: 67
Acq On : 14 Nov 2019 14:37 Operator: RLD-DGS
Sample : 166498,356195, Inst : VMS4
Misc : 6.38g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 14:57:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	929278	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	712622	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	288222	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	242438	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	50766	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	914613	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	284971	0.024 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 120 %#		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.07	50	1661	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.67	94	1492	Below Cal #	1
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	3.95	96	1739	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	16635	N.D.	
16) Iodomethane	4.15	142	1069	0.0010 mg/kg#	44
17) Carbon Dislf	4.21	76	2166	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	32113	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	9759	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.34	57	5570	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.19	77	3837	N.D.	
32) c12dichlorte	6.24	96	28498	0.0021 mg/kg	89
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.63	42	1021	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356195R.D Vial: 67
Acq On : 14 Nov 2019 14:37 Operator: RLD-DGS
Sample : 166498,356195, Inst : VMS4
Misc : 6.38g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 14:57:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.31	78	2414	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.13	95	236760	0.0192	mg/kg	97
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	9.10	43	1176	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.53	43	9196	N.D.		
61)	Toluene	9.75	92	7469	N.D.		
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	0.00	83	0	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	0.00	43	0	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1Clhexane	11.59	91	2051	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.78	91	2021	N.D.		
75)	m p-Xylene	11.96	106	1332	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	13.54	83	1868	N.D.		
85)	123Triclproa	13.56	75	28396	0.0024	mg/kg	66
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.58	91	1773	N.D.		
88)	2chlorotolue	0.00	91	0	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	0.00	105	0	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.40	105	1477	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	0.00	119	0	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	0.00	91	0	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356195R.D Vial: 67
Acq On : 14 Nov 2019 14:37 Operator: RLD-DGS
Sample : 166498,356195, Inst : VMS4
Misc : 6.38g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 14:57:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

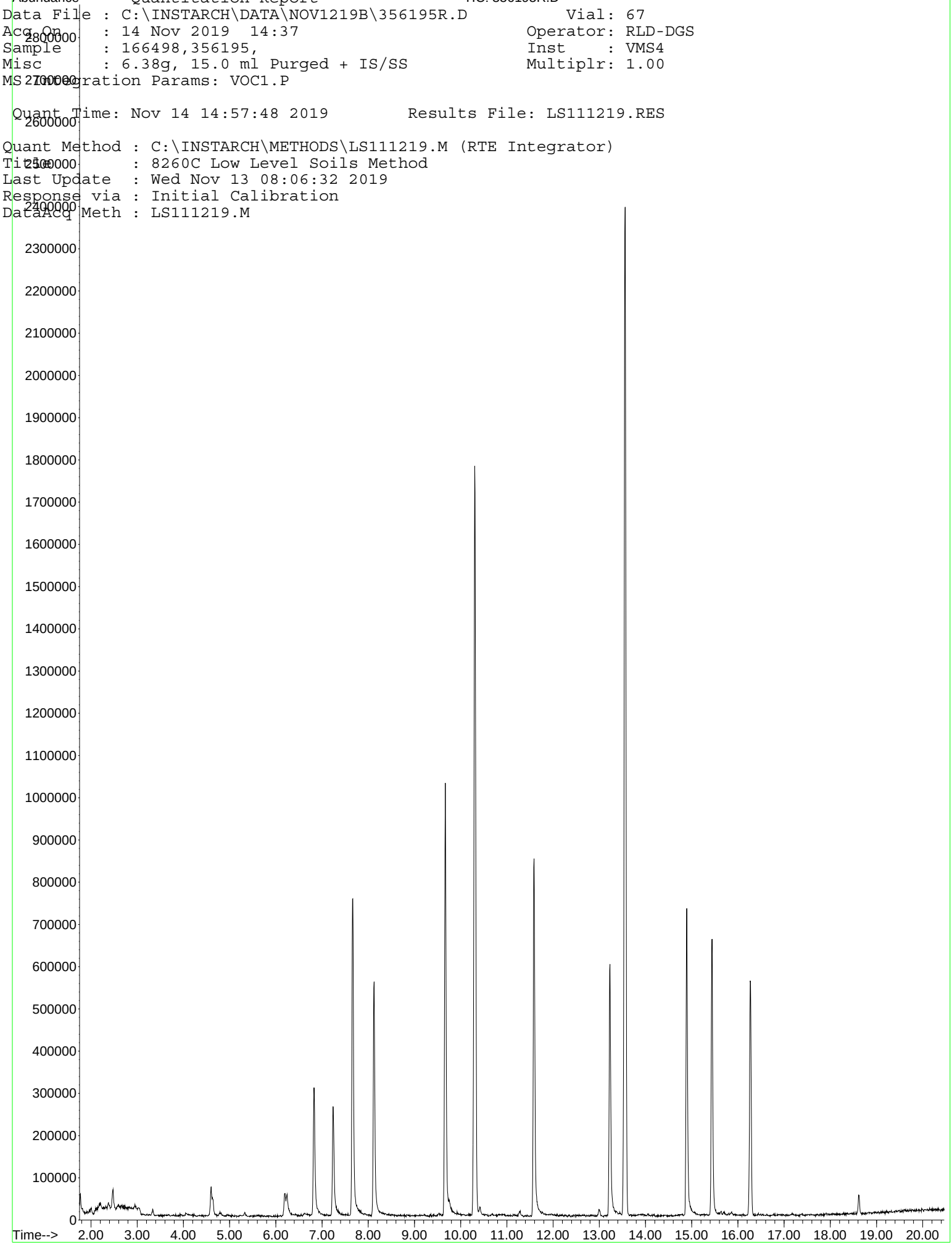
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.01	128	1149	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

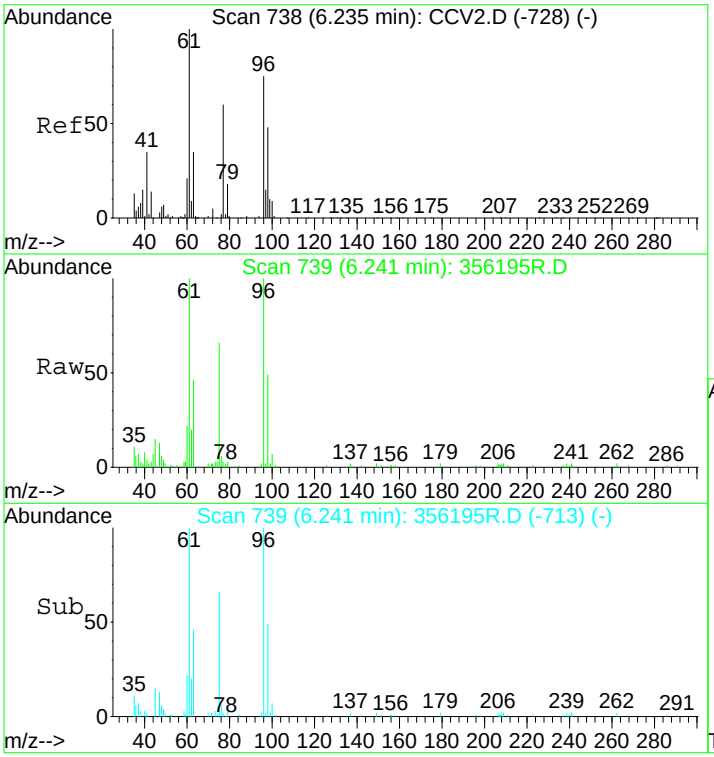
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219B\356195R.D Vial: 67
Acq On : 14 Nov 2019 14:37 Operator: RLD-DGS
Sample : 166498,356195, Inst : VMS4
Misc : 6.38g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 14:57:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

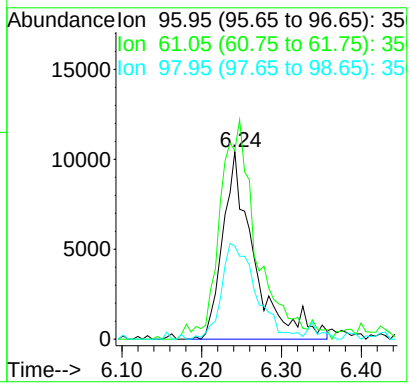


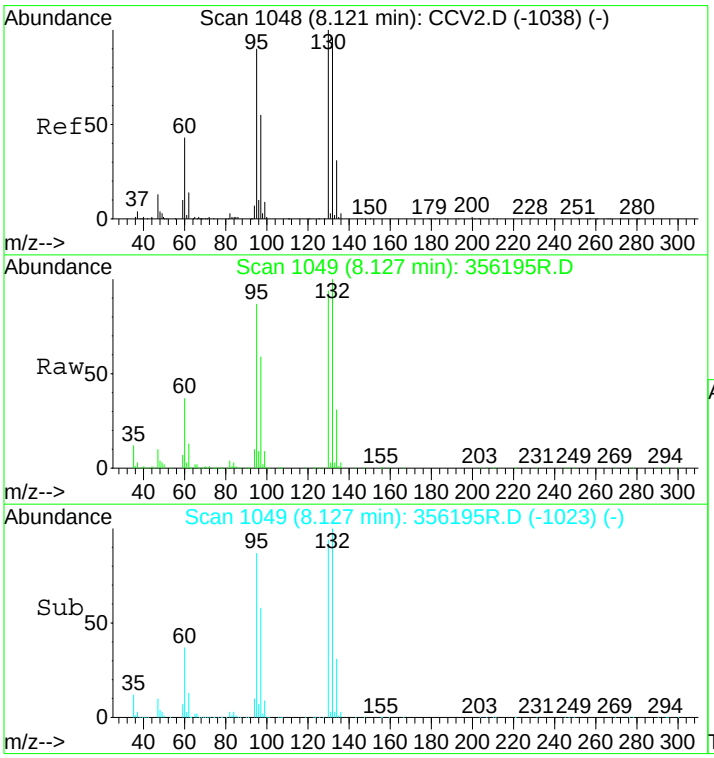


#32
c12dichlorte
Concen: 0.00 mg/kg
RT: 6.24 min Scan# 739
Delta R.T. 0.01 min
Lab File: 356195R.D
Acq: 14 Nov 2019 14:37

Tgt Ion: 96 Resp: 28498

Ion	Ratio	Lower	Upper
96	100		
61	134.9	128.4	168.4
98	56.1	44.3	84.3

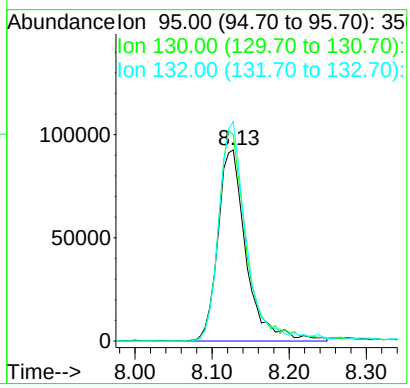


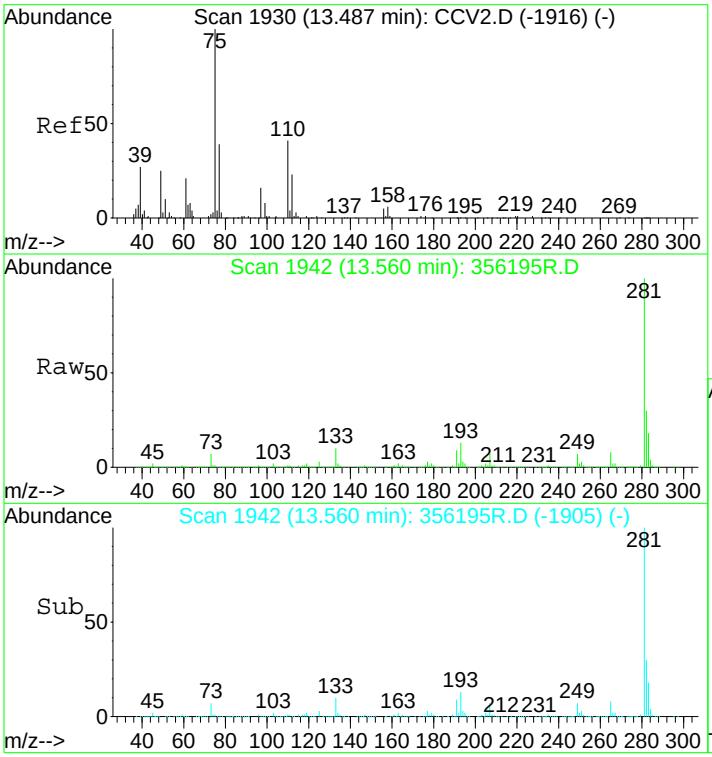


#49
trichloroete
Concen: 0.02 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356195R.D
Acq: 14 Nov 2019 14:37

Tgt Ion: 95 Resp: 236760

Ion	Ratio	Lower	Upper
95	100		
130	108.5	94.7	134.7
132	111.1	91.8	131.8

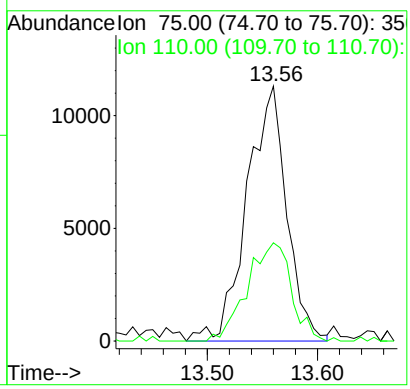




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.56 min Scan# 1942
Delta R.T. 0.07 min
Lab File: 356195R.D
Acq: 14 Nov 2019 14:37

Tgt Ion: 75 Resp: 28396

Ion	Ratio	Lower	Upper
75	100		
110	42.7	5.6	45.6



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356196R.D Vial: 68
Acq On : 14 Nov 2019 15:06 Operator: RLD-DGS
Sample : 166498,356196, Inst : VMS4
Misc : 5.83g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 15:26:52 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	915719	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	701310	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	283610	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	247969	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 110 %		
45) SURR12DCAd4	7.25	102	51540	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	930150	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	275304	0.024 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 120 %#		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2192	N.D.	
3) Chloromethan	2.06	50	1804	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.68	94	1613	Below Cal	82
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	21430	N.D.	
16) Iodomethane	4.13	142	1268	0.0010 mg/kg#	44
17) Carbon Dislf	4.20	76	1782	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	30459	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.81	59	12975	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	9407	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.18	77	7558	0.0005 mg/kg#	45
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356196R.D Vial: 68
Acq On : 14 Nov 2019 15:06 Operator: RLD-DGS
Sample : 166498,356196, Inst : VMS4
Misc : 5.83g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 15:26:52 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.32	78	5771	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.13	95	6302	0.0005	mg/kg#	82
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23dicl1propene	8.46	75	1131	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.52	43	6351	N.D.		
61)	Toluene	9.76	92	51637	0.0016	mg/kg	95
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	0.00	69	0	N.D.		
64)	112Triclotha	10.30	83	2008	N.D.		
65)	Tetrachlorte	0.00	166	0	N.D.		
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	10.54	43	1579	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	0.00	112	0	N.D.		
72)	1Clhexane	11.59	91	1910	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.79	91	1100	N.D.		
75)	m p-Xylene	11.97	106	1723	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	13.23	55	1089	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.55	75	24996	0.0021	mg/kg#	53
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	0.00	91	0	N.D.		
88)	2chlorotolue	0.00	91	0	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	13.74	105	1076	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.39	105	1730	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	0.00	119	0	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	0.00	91	0	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356196R.D Vial: 68
Acq On : 14 Nov 2019 15:06 Operator: RLD-DGS
Sample : 166498,356196, Inst : VMS4
Misc : 5.83g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 15:26:52 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	1360	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

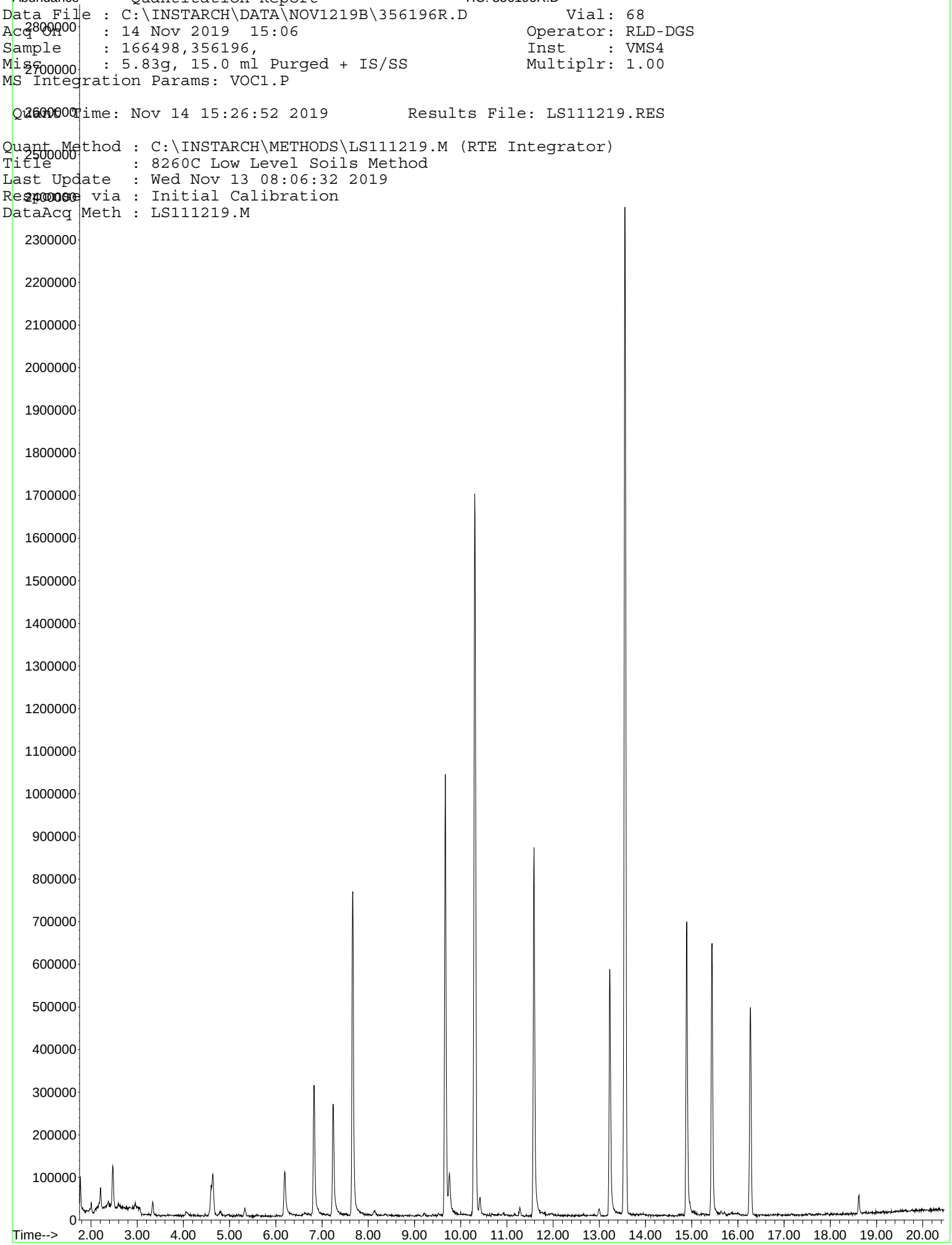
(#) = qualifier out of range (m) = manual integration

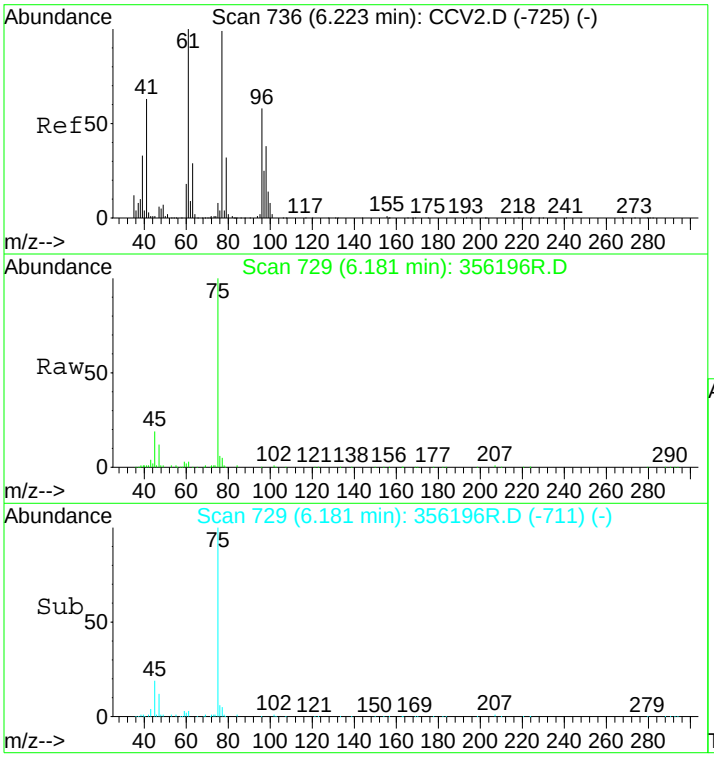
Abundance Quantitation Report TIC: 356196R.D

Data File : C:\INSTARCH\DATA\NOV1219B\356196R.D Vial: 68
Acq On : 14 Nov 2019 15:06 Operator: RLD-DGS
Sample : 166498,356196, Inst : VMS4
Misc : 5.83g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 15:26:52 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

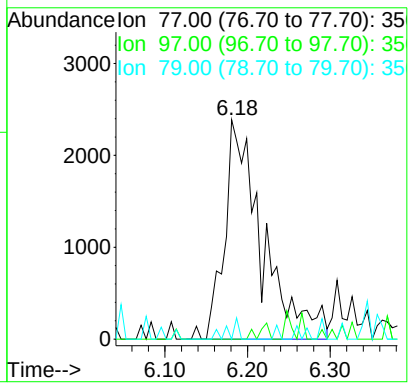




#31
22dichloropr
Concen: 0.00 mg/kg
RT: 6.18 min Scan# 729
Delta R.T. -0.04 min
Lab File: 356196R.D
Acq: 14 Nov 2019 15:06

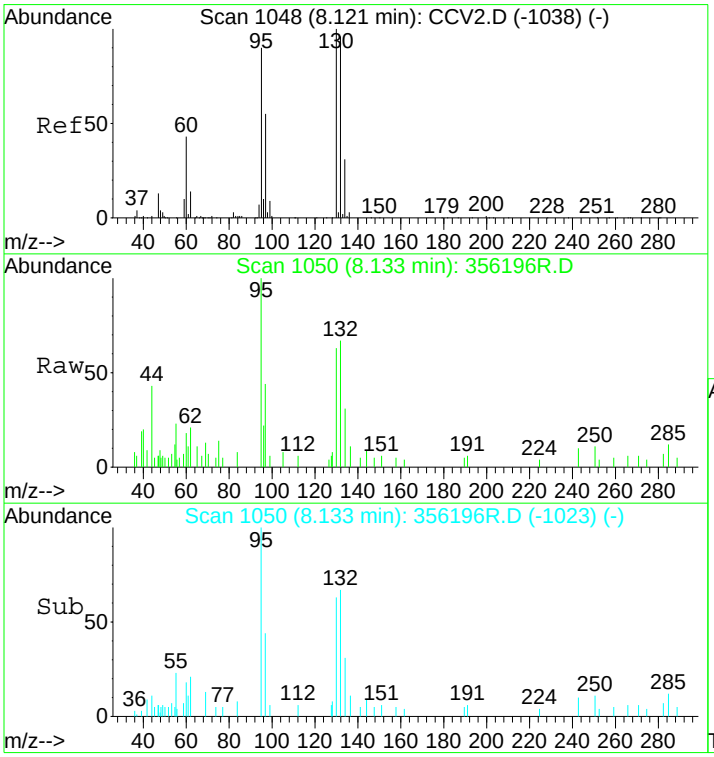
Tgt Ion: 77 Resp: 7558

Ion	Ratio	Lower	Upper
77	100		
97	0.0	5.2	45.2#
79	0.0	13.4	53.4#



Negative Library Identification

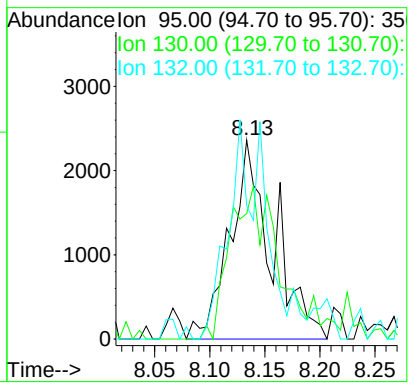
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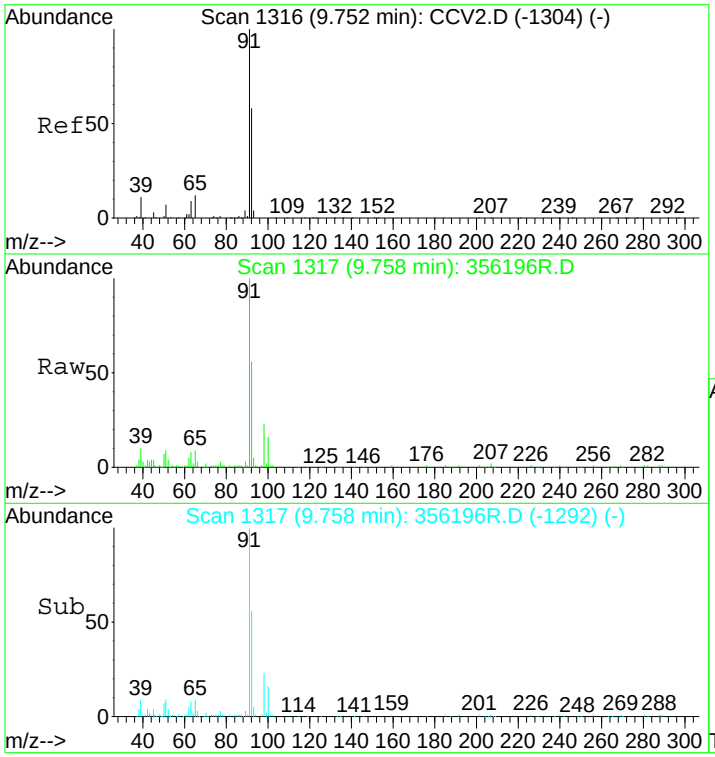


#49
trichloroete
Concen: 0.00 mg/kg
RT: 8.13 min Scan# 1050
Delta R.T. 0.01 min
Lab File: 356196R.D
Acq: 14 Nov 2019 15:06

Tgt Ion: 95 Resp: 6302

Ion	Ratio	Lower	Upper
95	100		
130	92.2	94.7	134.7#
132	96.3	91.8	131.8

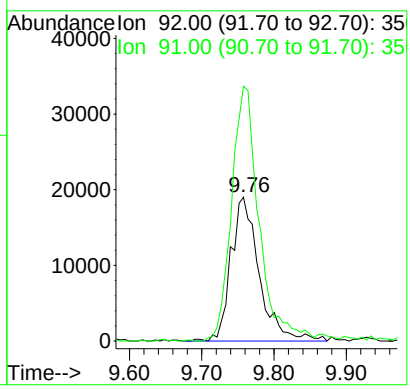


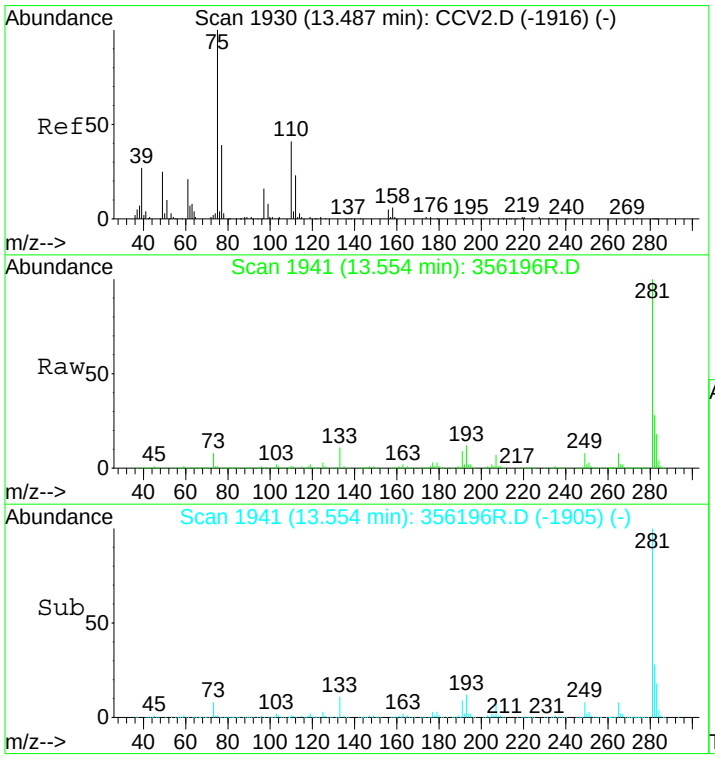


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.76 min Scan# 1317
Delta R.T. 0.00 min
Lab File: 356196R.D
Acq: 14 Nov 2019 15:06

Tgt Ion: 92 Resp: 51637

Ion	Ratio	Lower	Upper
92	100		
91	174.5	148.0	188.0

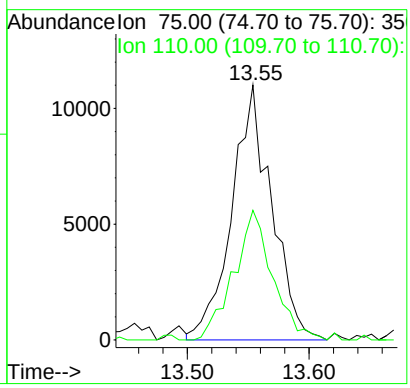




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: 356196R.D
Acq: 14 Nov 2019 15:06

Tgt Ion: 75 Resp: 24996

Ion	Ratio	Lower	Upper
75	100		
110	49.6	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356173R.D Vial: 7
Acq On : 18 Nov 2019 18:18 Operator: RLD-DGS
Sample : 166497,356173,5 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 18:38:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	803466	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	648538	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	323307	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	210233	1.001	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	49722	0.960	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
61) SURRd8Tolule	9.67	98	791706	0.967	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
83) SURR4BrFBenz	13.23	95	295740	0.951	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.06	50	2298	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	3400	Below	Cal #	54
6) Chloroethane	2.79	64	1816	0.0302	mg/kg#	37
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.08	43	1735	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	4.19	76	1078	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	9917	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	0.00	59	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.25	96	1379	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356173R.D Vial: 7
Acq On : 18 Nov 2019 18:18 Operator: RLD-DGS
Sample : 166497,356173,5 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 18:38:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	515672	2.6308 mg/kg	96
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.59	91	1570	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.22	55	1201	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.52	75	1008	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.89	146	1082	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.89	146	1245	N.D.	
98)	12dichlorobe	15.44	146	1036	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

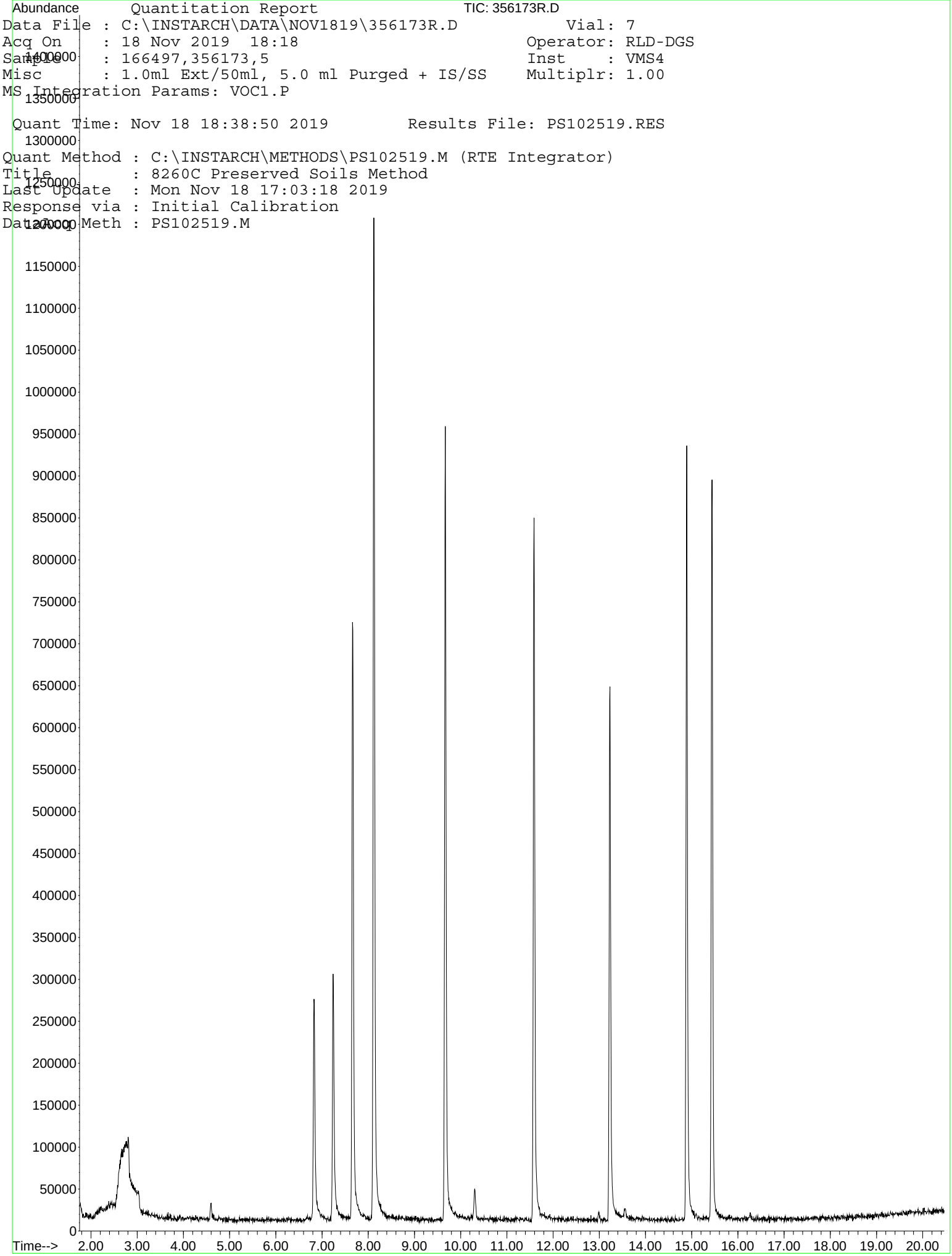
Data File : C:\INSTARCH\DATA\NOV1819\356173R.D Vial: 7
Acq On : 18 Nov 2019 18:18 Operator: RLD-DGS
Sample : 166497,356173,5 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

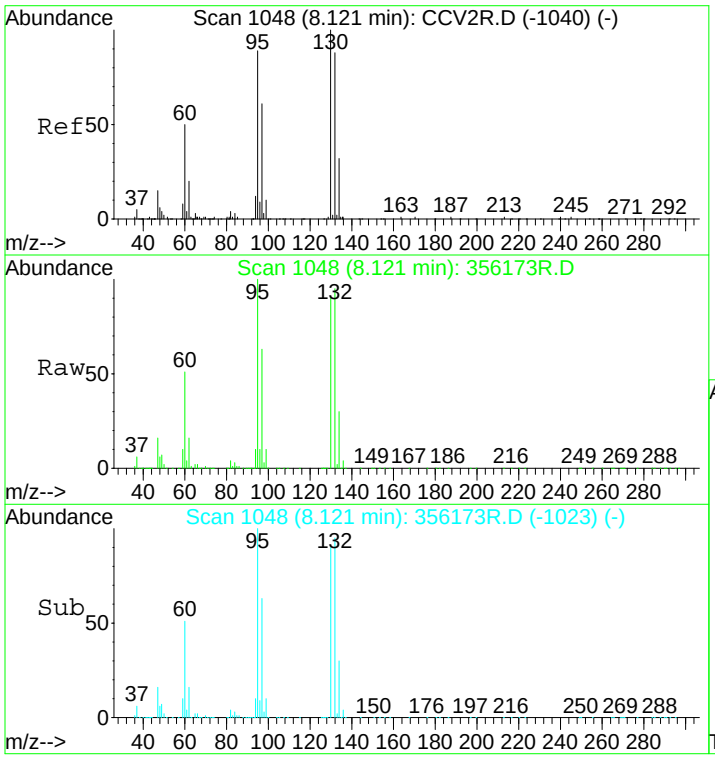
Quant Time: Nov 18 18:38:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

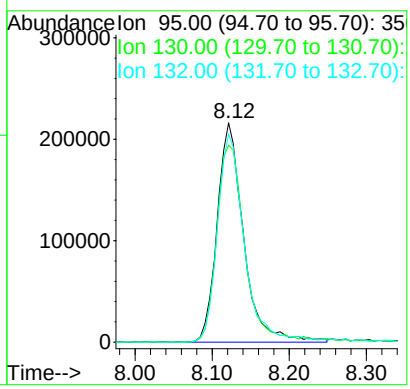

Abundance
Quantitation Report
TIC: 356173R.D
Data File : C:\INSTARCH\DATA\NOV1819\356173R.D
Vial: 7
Acq On : 18 Nov 2019 18:18
Operator: RLD-DGS
Sample : 166497,356173,5
Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC1.P
Quant Time: Nov 18 18:38:50 2019
Results File: PS102519.RES
Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
Data Path Meth : PS102519.M
1400000
1350000
1300000
1250000
1200000
1150000
1100000
1050000
1000000
950000
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00



#49
trichloroete
Concen: 2.63 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356173R.D
Acq: 18 Nov 2019 18:18

Tgt Ion: 95 Resp: 515672

Ion	Ratio	Lower	Upper
95	100		
130	95.8	79.6	119.6
132	96.1	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356176R.D Vial: 8
Acq On : 18 Nov 2019 18:46 Operator: RLD-DGS
Sample : 166497,356176,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 19:07:19 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	811954	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	641086	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	333650	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	208994	0.984	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
45) SURR12DCAd4	7.24	102	50564	0.966	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
61) SURRd8Tolule	9.67	98	783101	0.947	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
83) SURR4BrFBenz	13.23	95	300432	0.936	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.06	50	3569	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	4951	N.D.		
6) Chloroethane	2.80	64	1607	N.D.		
7) dichloroflmethane	3.11	67	1202	Below Cal #		1
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.09	43	4853	N.D.		
16) Iodomethane	4.09	127	1483	0.1476	mg/kg#	51
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.43	41	1082	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.58	84	12676	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	2472	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.25	96	6339	0.0290	mg/kg	88
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356176R.D Vial: 8
Acq On : 18 Nov 2019 18:46 Operator: RLD-DGS
Sample : 166497,356176,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 19:07:19 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	1032995	5.2149 mg/kg	98
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	2095	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.44	75	2202	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	15.45	146	1073	N.D.	
99)	nButylbenzen	15.43	91	1846	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356176R.D Vial: 8
Acq On : 18 Nov 2019 18:46 Operator: RLD-DGS
Sample : 166497,356176,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 19:07:19 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	0.00	180	0	N.D.		
103)	Hexachlorobu	0.00	225	0	N.D.		
104)	Naphthalene	0.00	128	0	N.D.		
105)	123Trichlben	0.00	180	0	N.D.		

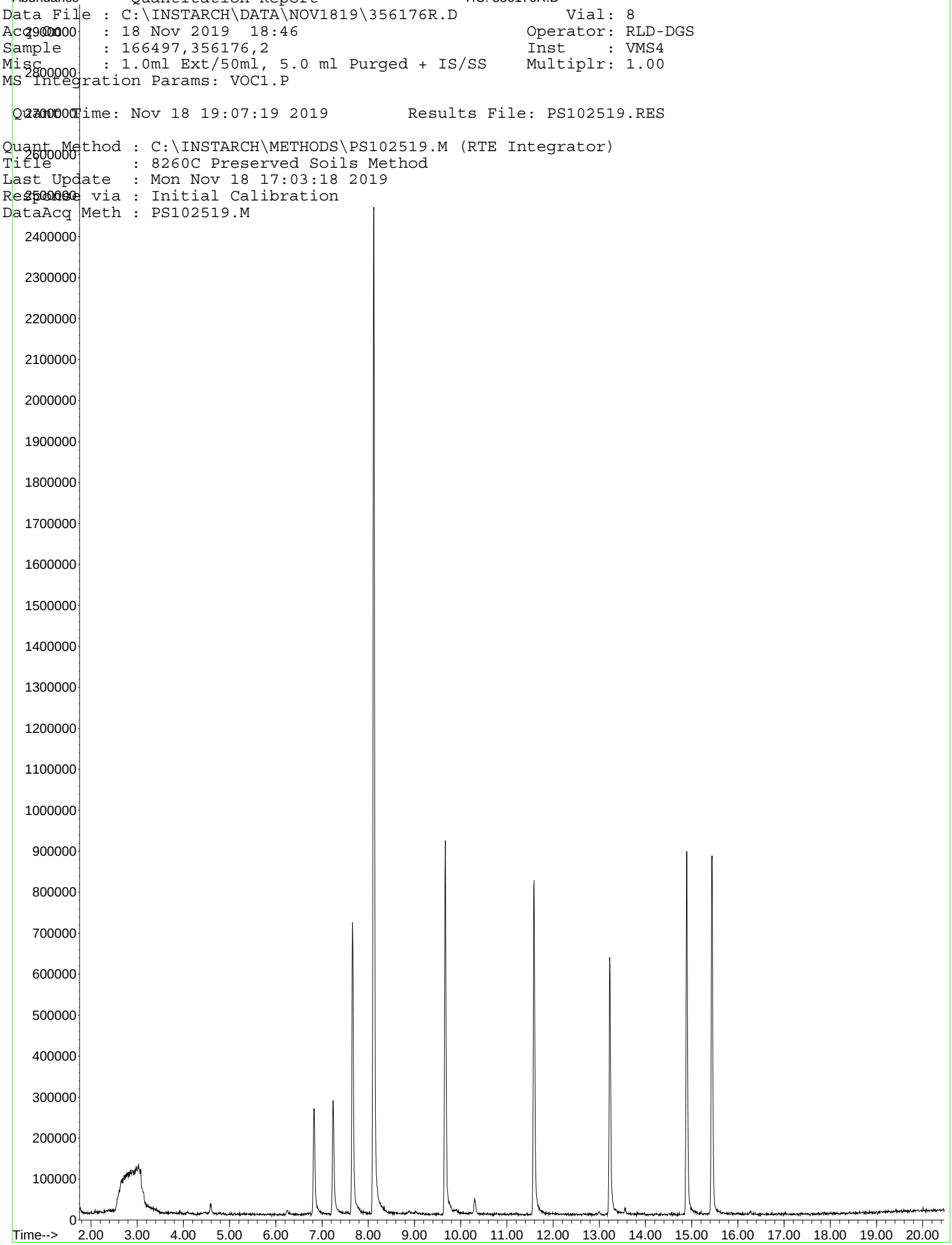
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356176R.D

Data File : C:\INSTARCH\DATA\NOV1819\356176R.D Vial: 8
Acq On : 18 Nov 2019 18:46 Operator: RLD-DGS
Sample : 166497,356176,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 19:07:19 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356179R.D Vial: 9
Acq On : 18 Nov 2019 19:15 Operator: RLD-DGS
Sample : 166497,356179,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 19:35:46 2019 Results File: PS102519.RES

NOT USED

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	834675	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	657264	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	334904	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	220794	1.012	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.23	102	52063	0.967	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
61) SURRd8Tolule	9.67	98	814750	0.958	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
83) SURR4BrFBenz	13.23	95	303564	0.942	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.08	50	2829	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.67	94	3774	Below	Cal	100
6) Chloroethane	2.81	64	1183	N.D.		
7) dichloroflmethane	3.11	67	1902	Below	Cal #	38
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.15	43	5493	N.D.		
16) Iodomethane	4.09	127	1588	0.1485	mg/kg#	86
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.48	41	2304	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	14277	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.80	59	1472	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.29	57	1206	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.58	45	1730	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356179R.D Vial: 9
Acq On : 18 Nov 2019 19:15 Operator: RLD-DGS
Sample : 166497,356179,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 19:35:46 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	21735	0.1067 mg/kg	98
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.03	43	1470	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.62	43	1223	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.91	75	3290	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.52	43	1418	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.56	91	1616	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.23	55	1241	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.48	75	1500	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	15.43	146	1080	N.D.	
99)	nButylbenzen	15.43	91	1575	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356179R.D Vial: 9
Acq On : 18 Nov 2019 19:15 Operator: RLD-DGS
Sample : 166497,356179,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 19:35:46 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

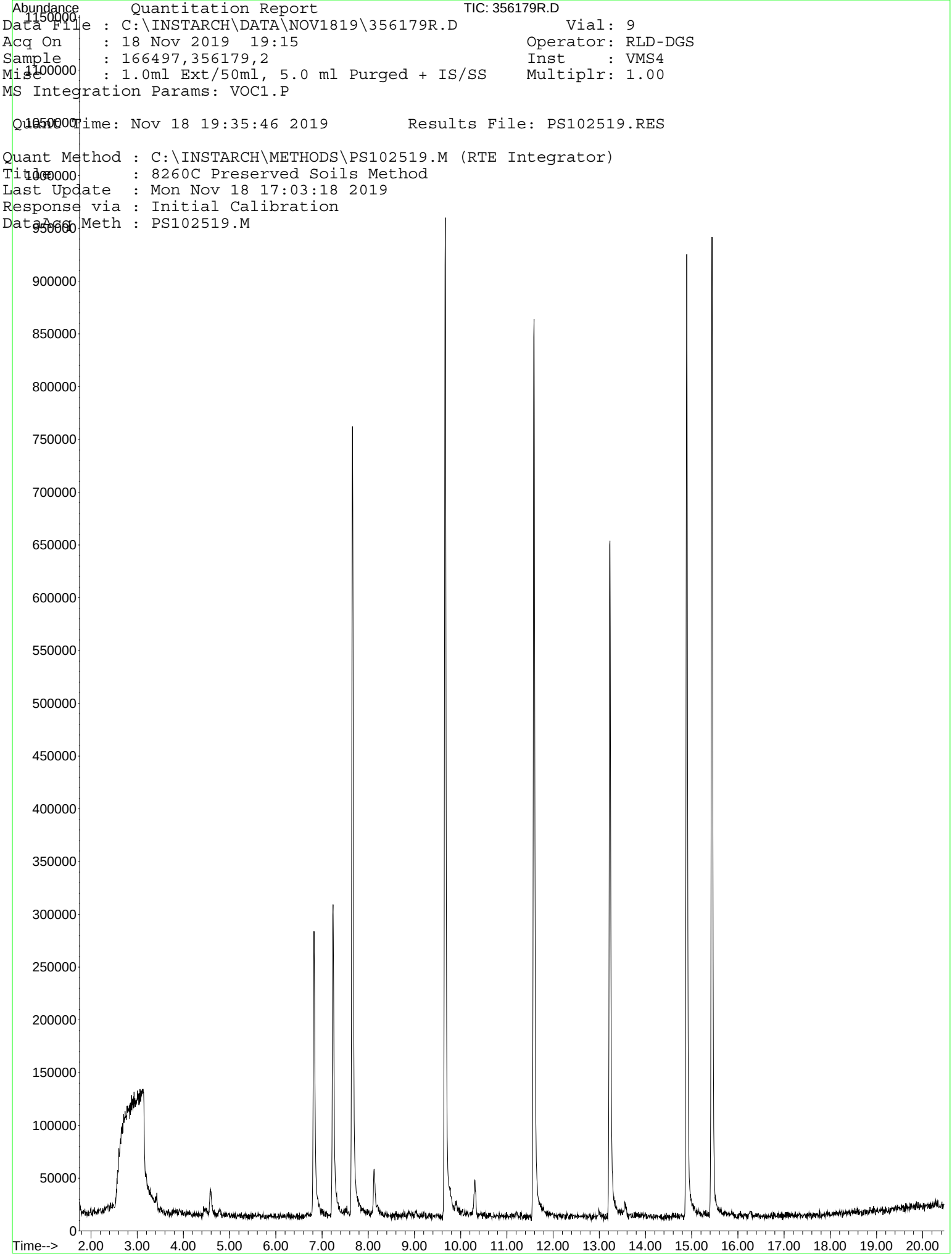
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356179R.D

Data File : C:\INSTARCH\DATA\NOV1819\356179R.D Vial: 9
Acq On : 18 Nov 2019 19:15 Operator: RLD-DGS
Sample : 166497,356179,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 19:35:46 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356184R.D Vial: 10
Acq On : 18 Nov 2019 19:43 Operator: RLD-DGS
Sample : 166497,356184, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 20:04:17 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	801313	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	647250	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.90	152	338092	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	215843	1.030	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103 %			
45) SURR12DCAd4	7.24	102	50261	0.973	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
61) SURRd8Tolule	9.67	98	798775	0.979	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	308119	0.947	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.05	50	2585	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	4039	Below	Cal	87
6) Chloroethane	2.75	64	1111	N.D.		
7) dichloroflmethane	3.06	67	1399	Below	Cal #	1
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.11	43	1283	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.42	41	1002	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.58	84	16053	0.0636	mg/kg	98
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.80	59	2951	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.56	45	1121	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356184R.D Vial: 10
Acq On : 18 Nov 2019 19:43 Operator: RLD-DGS
Sample : 166497,356184, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 20:04:17 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	35839	0.1833 mg/kg	91
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	8.95	43	1337	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.50	43	1812	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.95	75	1158	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	1299	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.49	75	1037	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.90	146	1541	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.90	146	1541	N.D.	
98)	12dichlorobe	15.45	146	1512	N.D.	
99)	nButylbenzen	15.42	91	1017	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356184R.D Vial: 10
Acq On : 18 Nov 2019 19:43 Operator: RLD-DGS
Sample : 166497,356184, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 20:04:17 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

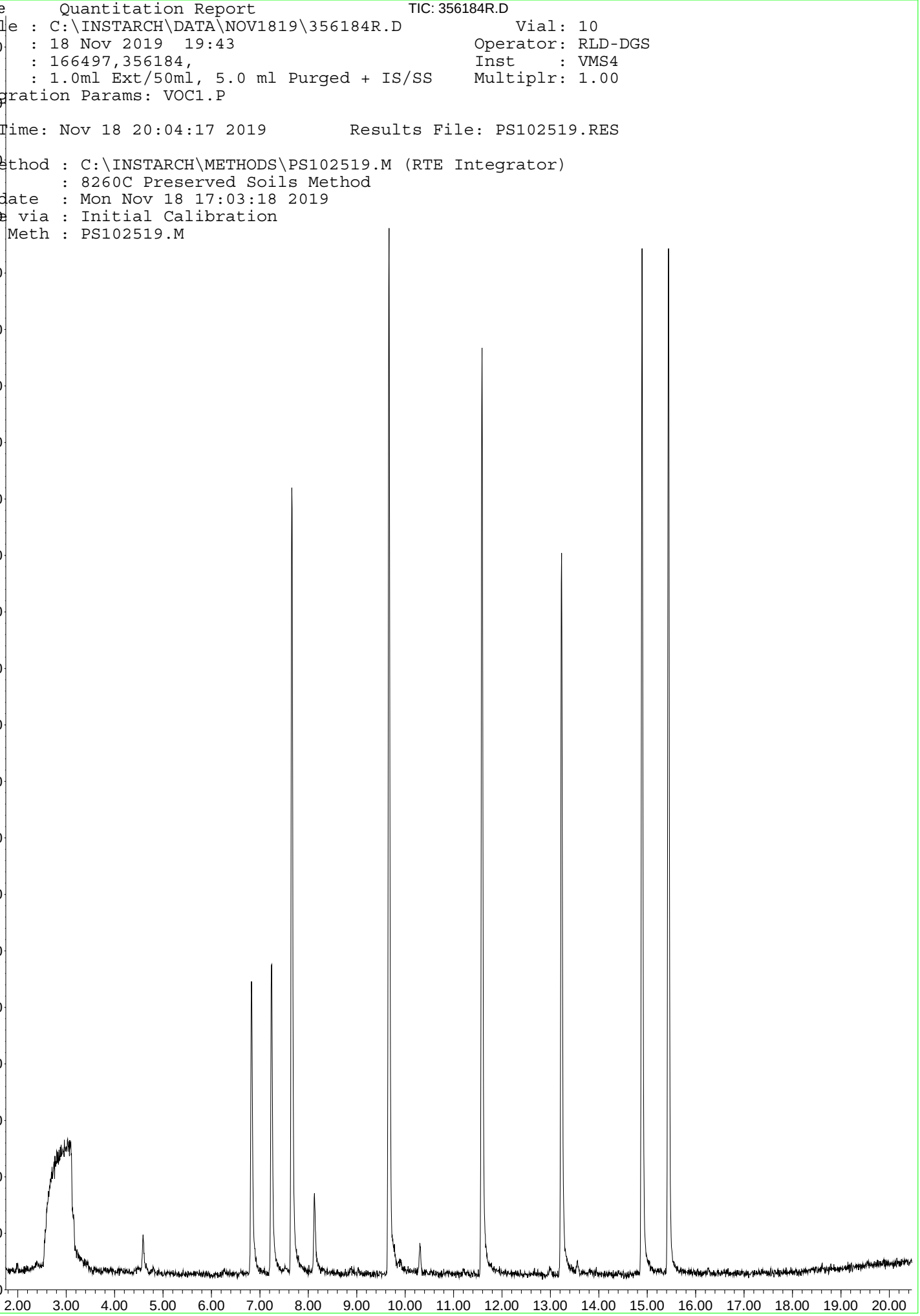
(#) = qualifier out of range (m) = manual integration

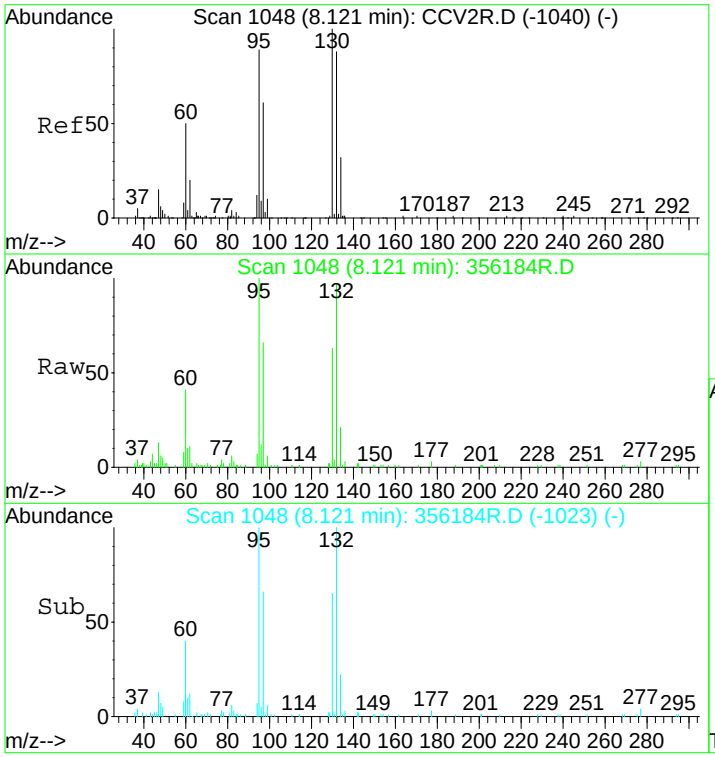
Abundance Quantitation Report TIC: 356184R.D

Data File : C:\INSTARCH\DATA\NOV1819\356184R.D Vial: 10
Acq On : 18 Nov 2019 19:43 Operator: RLD-DGS
Sample : 166497,356184, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 20:04:17 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

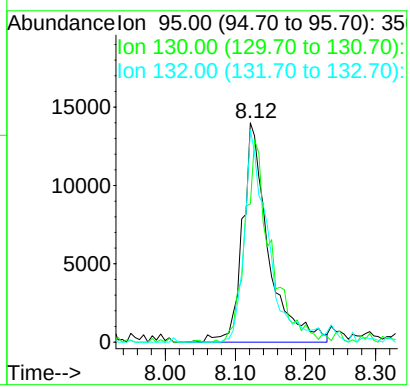




#49
trichloroete
Concen: 0.18 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356184R.D
Acq: 18 Nov 2019 19:43

Tgt Ion: 95 Resp: 35839

Ion	Ratio	Lower	Upper
95	100		
130	92.1	79.6	119.6
132	89.8	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356187R.D Vial: 11
Acq On : 18 Nov 2019 20:12 Operator: RLD-DGS
Sample : 166497,356187, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 20:33:11 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	810691	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	667224	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	335588	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	217260	1.025	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102 %			
45) SURR12DCAd4	7.24	102	49798	0.952	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
61) SURRd8Tolule	9.67	98	830160	1.005	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	311043	0.963	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.05	50	1652	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.67	94	4852	N.D.		
6) Chloroethane	2.77	64	1199	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.44	41	2013	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	19102	0.0770	mg/kg	97
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	3447	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.63	45	1323	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	5115	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356187R.D Vial: 11
Acq On : 18 Nov 2019 20:12 Operator: RLD-DGS
Sample : 166497,356187, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 20:33:11 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	291778	1.4753 mg/kg	97
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	8.89	43	1127	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.90	75	3885	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.60	91	1392	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.24	55	1765	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.51	75	1623	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.89	146	1254	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.89	146	1370	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.45	91	1776	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

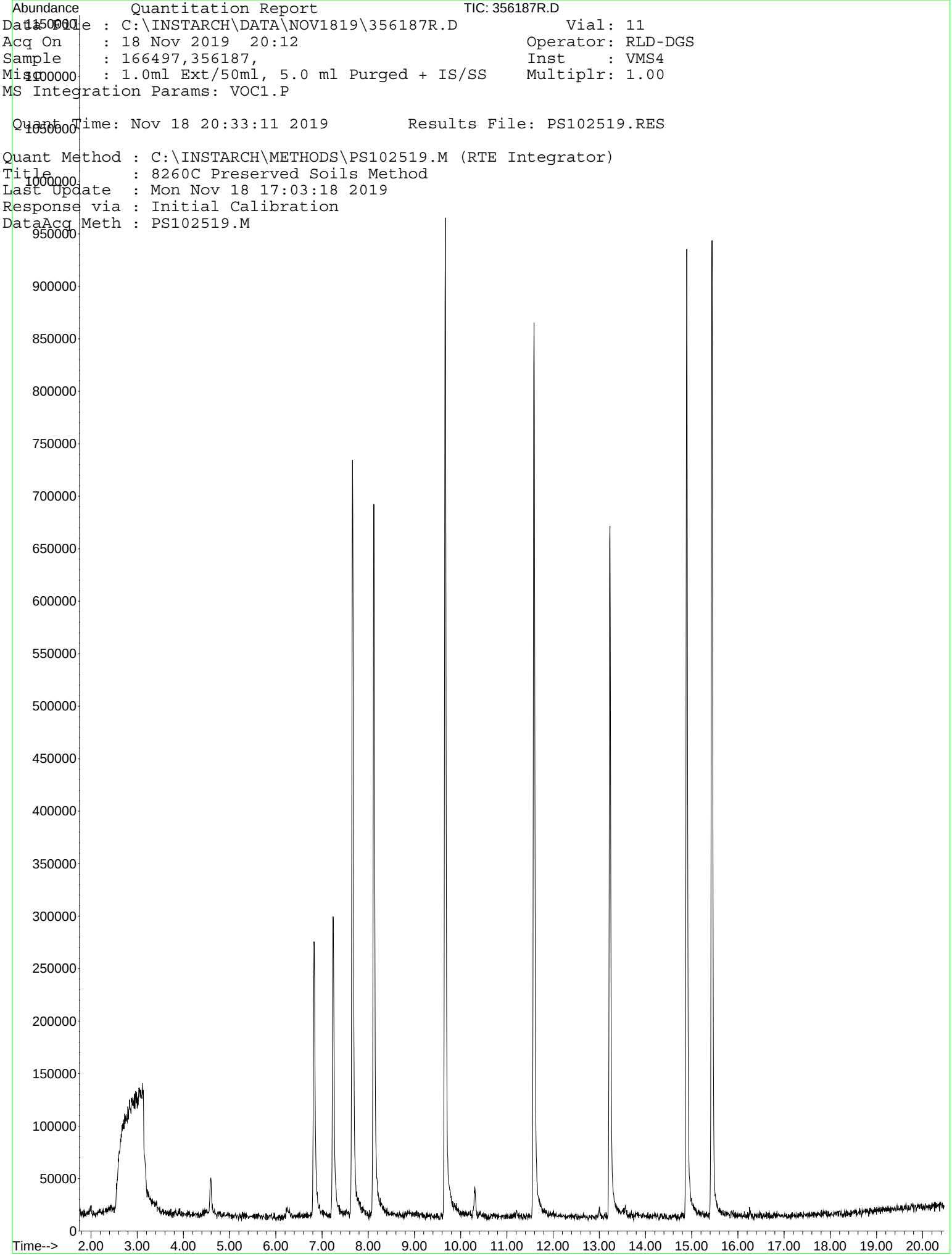
Data File : C:\INSTARCH\DATA\NOV1819\356187R.D Vial: 11
Acq On : 18 Nov 2019 20:12 Operator: RLD-DGS
Sample : 166497,356187, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

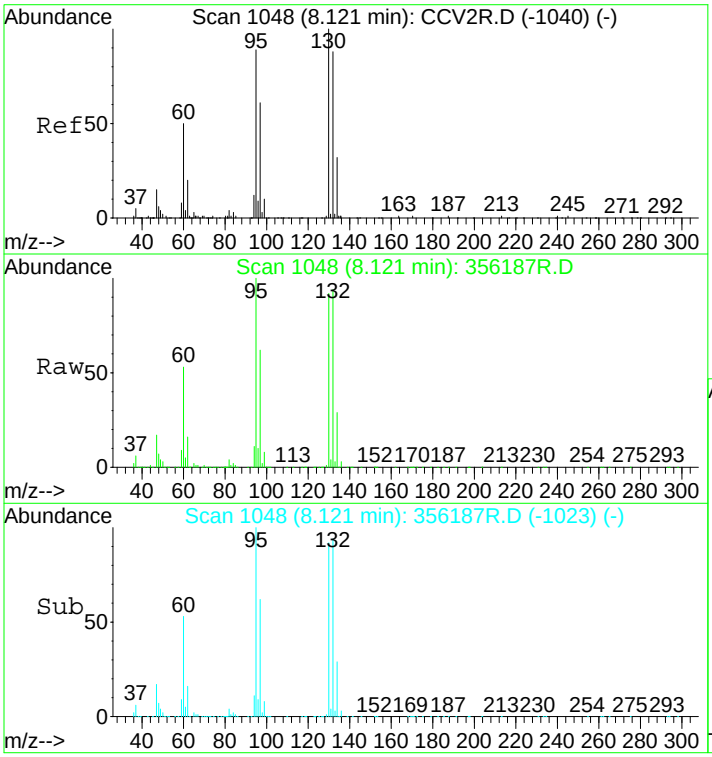
Quant Time: Nov 18 20:33:11 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

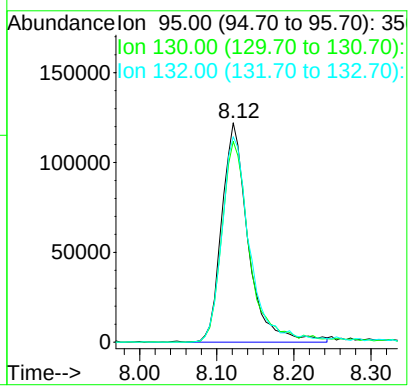

Abundance
Quantitation Report
TIC: 356187R.D
Data File : C:\INSTARCH\DATA\NOV1819\356187R.D Vial: 11
Acq On : 18 Nov 2019 20:12 Operator: RLD-DGS
Sample : 166497,356187, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P
Quant Time: Nov 18 20:33:11 2019 Results File: PS102519.RES
Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
1150000
1100000
1050000
1000000
950000
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00



#49
trichloroete
Concen: 1.48 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356187R.D
Acq: 18 Nov 2019 20:12

Tgt Ion: 95 Resp: 291778

Ion	Ratio	Lower	Upper
95	100		
130	96.0	79.6	119.6
132	98.6	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356188R.D Vial: 12
Acq On : 18 Nov 2019 20:41 Operator: RLD-DGS
Sample : 166497,356188, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 21:02:06 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	791492	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	645616	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	329847	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	208545	1.008	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.25	102	48399	0.948	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
61) SURRd8Tolule	9.67	98	794266	0.985	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
83) SURR4BrFBenz	13.23	95	298282	0.940	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.05	50	1464	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	2648	Below	Cal	87
6) Chloroethane	2.74	64	1517	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.12	43	3534	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.47	41	2477	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	15290	0.0609	mg/kg	88
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	1969	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.60	45	1275	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	7010	0.0329	mg/kg#	82
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356188R.D Vial: 12
Acq On : 18 Nov 2019 20:41 Operator: RLD-DGS
Sample : 166497,356188, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 21:02:06 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	177098	0.9172 mg/kg	99
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.04	43	2179	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.45	43	1237	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.90	75	3262	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	1153	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.45	75	1889	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.44	91	1941	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356188R.D Vial: 12
Acq On : 18 Nov 2019 20:41 Operator: RLD-DGS
Sample : 166497,356188, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 21:02:06 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	0.00	180	0	N.D.		
103)	Hexachlorobu	0.00	225	0	N.D.		
104)	Naphthalene	0.00	128	0	N.D.		
105)	123Trichlben	0.00	180	0	N.D.		

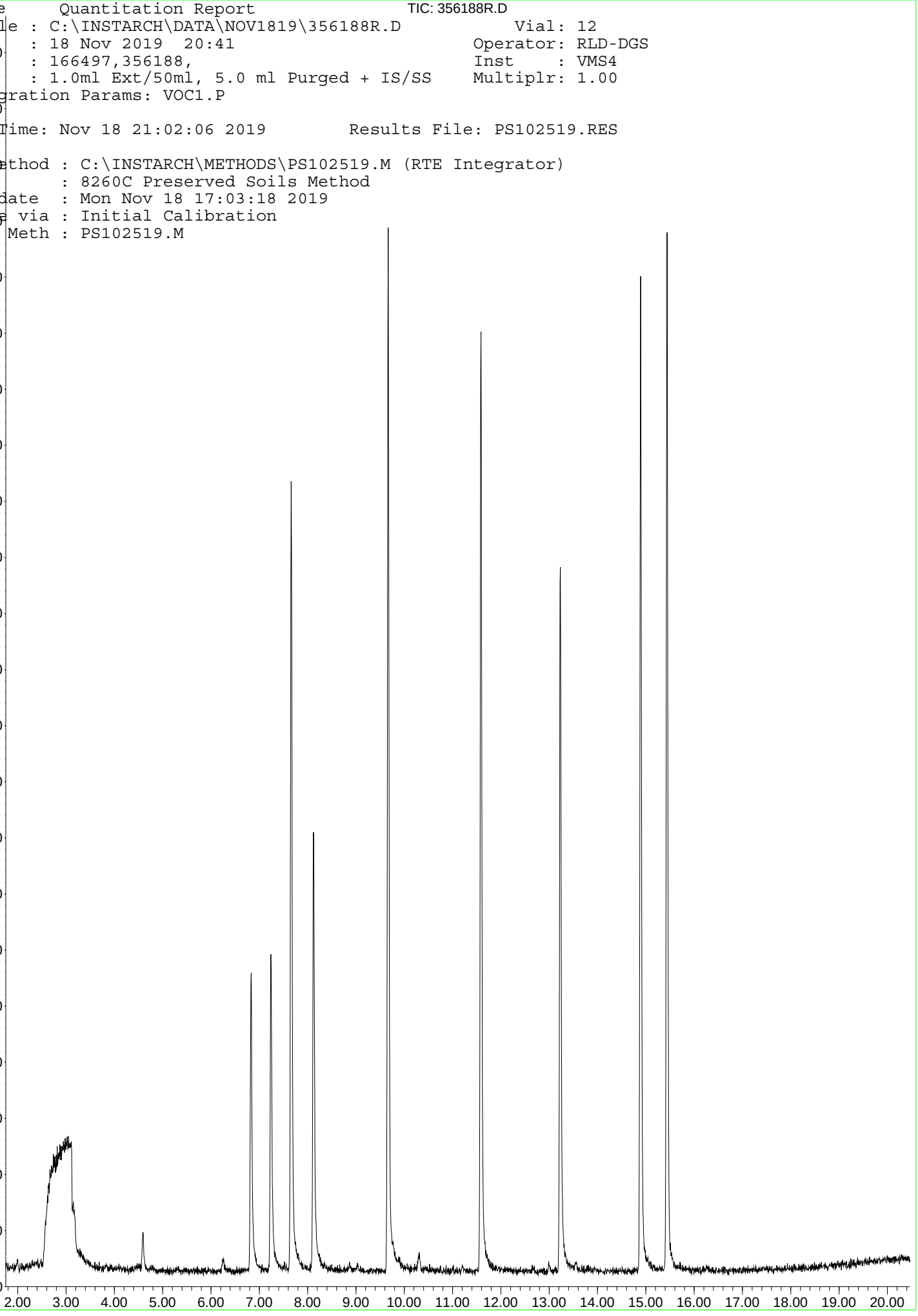
(#) = qualifier out of range (m) = manual integration

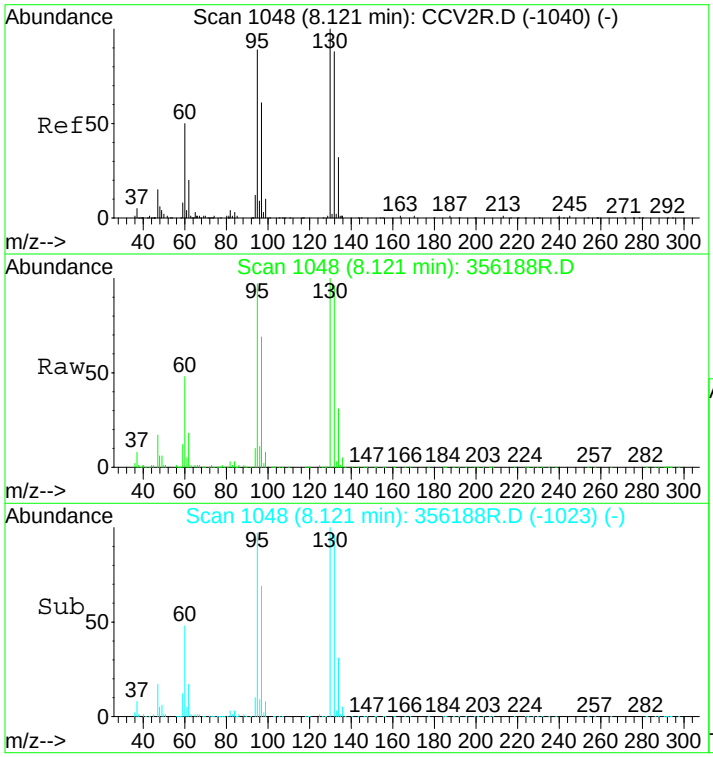
Abundance Quantitation Report TIC: 356188R.D

Data File : C:\INSTARCH\DATA\NOV1819\356188R.D Vial: 12
Acq On : 18 Nov 2019 20:41 Operator: RLD-DGS
Sample : 166497,356188, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 21:02:06 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

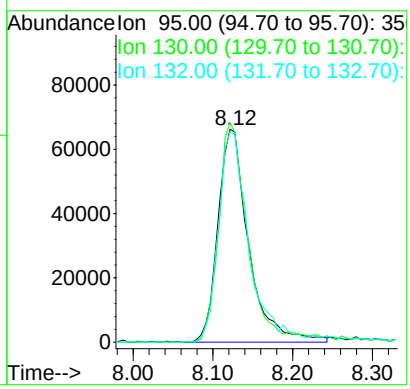




#49
trichloroete
Concen: 0.92 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356188R.D
Acq: 18 Nov 2019 20:41

Tgt Ion: 95 Resp: 177098

Ion	Ratio	Lower	Upper
95	100		
130	99.4	79.6	119.6
132	98.8	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356189R.D Vial: 13
Acq On : 18 Nov 2019 21:10 Operator: RLD-DGS
Sample : 166498,356189, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 21:30:52 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	791423	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	635218	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	327130	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	209172	1.011	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.24	102	48914	0.958	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
61) SURRd8Tolule	9.67	98	786103	0.975	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	292444	0.929	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.06	50	2549	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.67	94	3429	Below Cal #		64
6) Chloroethane	2.77	64	1137	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.12	43	2232	N.D.		
16) Iodomethane	4.09	127	1198	0.1439	mg/kg#	52
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	18737	0.0775	mg/kg	98
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	0.00	59	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.73	43	1161	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356189R.D Vial: 13
Acq On : 18 Nov 2019 21:10 Operator: RLD-DGS
Sample : 166498,356189, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 21:30:52 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	49150	0.2546 mg/kg	95
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	8.99	43	1554	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.90	75	2720	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	1390	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.38	75	1264	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.90	146	1269	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.42	91	1289	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

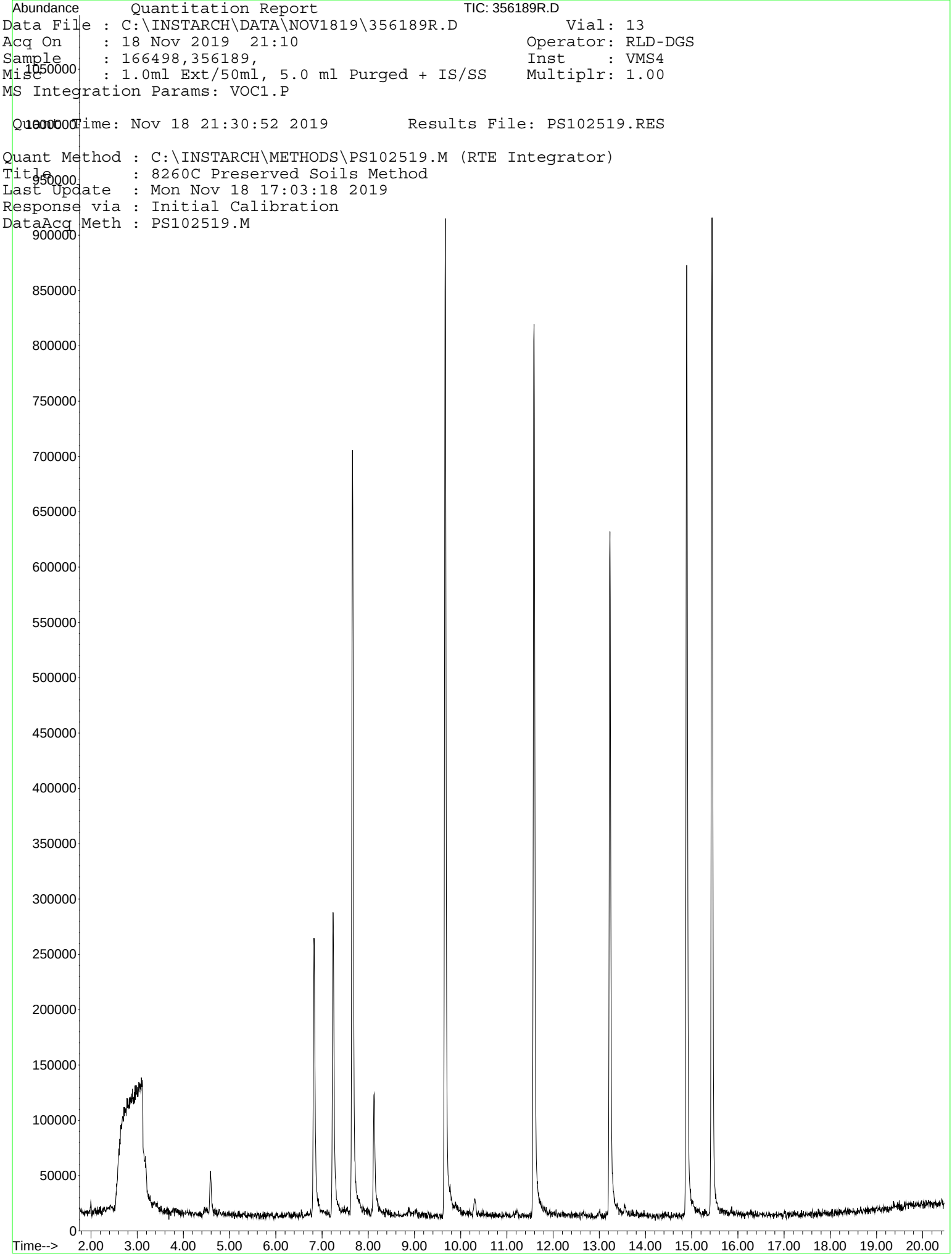
Data File : C:\INSTARCH\DATA\NOV1819\356189R.D Vial: 13
Acq On : 18 Nov 2019 21:10 Operator: RLD-DGS
Sample : 166498,356189, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

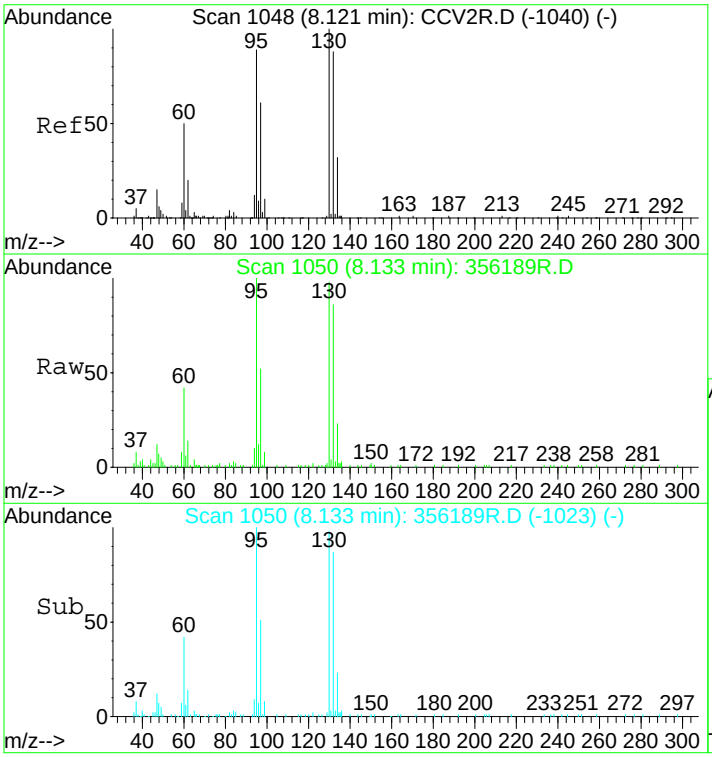
Quant Time: Nov 18 21:30:52 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

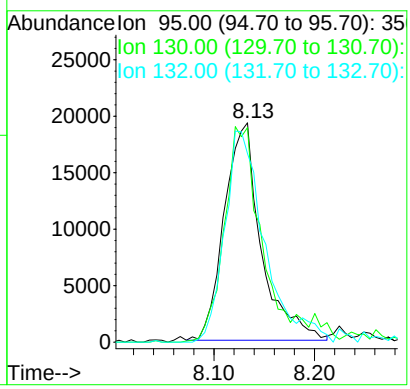

Abundance
Quantitation Report
TIC: 356189R.D
Data File : C:\INSTARCH\DATA\NOV1819\356189R.D
Vial: 13
Acq On : 18 Nov 2019 21:10
Operator: RLD-DGS
Sample : 166498,356189,
Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC1.P
Quant Time: Nov 18 21:30:52 2019
Results File: PS102519.RES
Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
1050000
1000000
950000
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00



#49
trichloroete
Concen: 0.25 mg/kg
RT: 8.13 min Scan# 1050
Delta R.T. 0.01 min
Lab File: 356189R.D
Acq: 18 Nov 2019 21:10

Tgt Ion: 95 Resp: 49150

Ion	Ratio	Lower	Upper
95	100		
130	105.4	79.6	119.6
132	104.8	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356191R.D Vial: 14
Acq On : 18 Nov 2019 21:38 Operator: RLD-DGS
Sample : 166498,356191,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 21:59:25 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	788791	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	632233	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.90	152	330606	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	198699	0.963	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
45) SURR12DCAd4	7.24	102	48276	0.949	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
61) SURRd8Tolule	9.67	98	777855	0.968	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
83) SURR4BrFBenz	13.23	95	299756	0.942	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.04	50	1781	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	2688	Below Cal #		58
6) Chloroethane	2.80	64	1699	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	1377	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.46	41	1859	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	20576	0.0866	mg/kg#	84
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	2139	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	8561	0.0403	mg/kg#	68
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356191R.D Vial: 14
Acq On : 18 Nov 2019 21:38 Operator: RLD-DGS
Sample : 166498,356191,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 21:59:25 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	572083	2.9729 mg/kg	97
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	10.00	75	1338	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	0.00	91	0	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.23	55	1869	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.48	75	1151	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.44	91	1652	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356191R.D Vial: 14
Acq On : 18 Nov 2019 21:38 Operator: RLD-DGS
Sample : 166498,356191,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 21:59:25 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

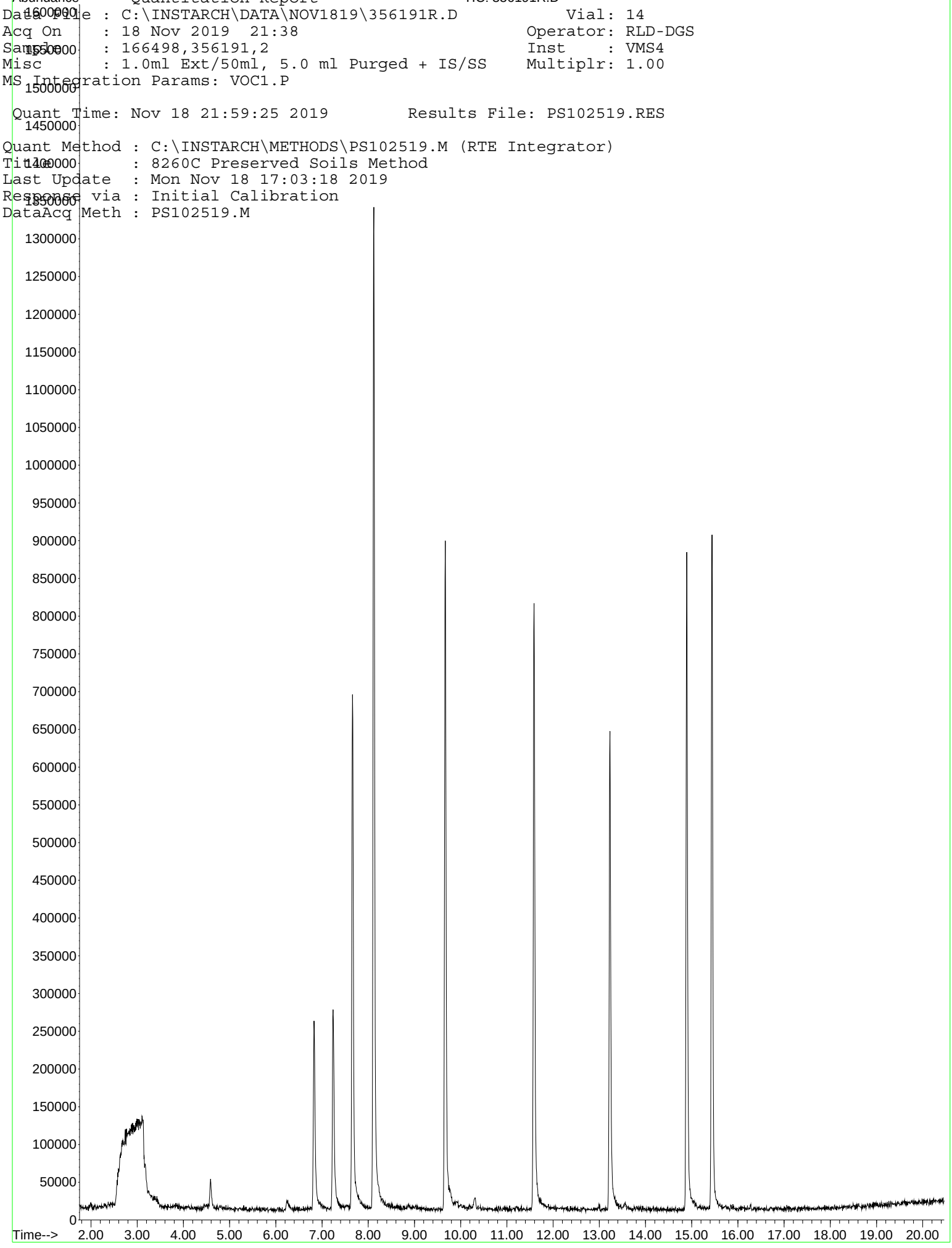
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356191R.D

Data File : C:\INSTARCH\DATA\NOV1819\356191R.D Vial: 14
Acq On : 18 Nov 2019 21:38 Operator: RLD-DGS
Sample : 166498,356191,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 21:59:25 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356192R.D Vial: 15
Acq On : 18 Nov 2019 22:07 Operator: RLD-DGS
Sample : 166498,356192, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 22:27:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	802475	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.58	117	654534	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	337693	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	209962	1.001	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	49877	0.964	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
61) SURRd8Tolule	9.67	98	805455	0.985	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
83) SURR4BrFBenz	13.23	95	297589	0.916	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.06	50	1576	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.65	94	3990	Below Cal #		74
6) Chloroethane	2.78	64	2001	0.0333	mg/kg#	37
7) dichloroflmethane	3.10	67	1653	Below Cal #		38
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.11	43	1592	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.40	41	1444	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	20962	0.0867	mg/kg	90
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	0.00	59	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.64	45	1344	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	9892	0.0457	mg/kg	88
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.62	42	1061	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356192R.D Vial: 15
Acq On : 18 Nov 2019 22:07 Operator: RLD-DGS
Sample : 166498,356192, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 22:27:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	336944	1.7211 mg/kg	98
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.91	75	1520	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.54	43	1372	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.60	91	1664	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.38	75	3384	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	15.44	146	1145	N.D.	
99)	nButylbenzen	15.43	91	1814	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

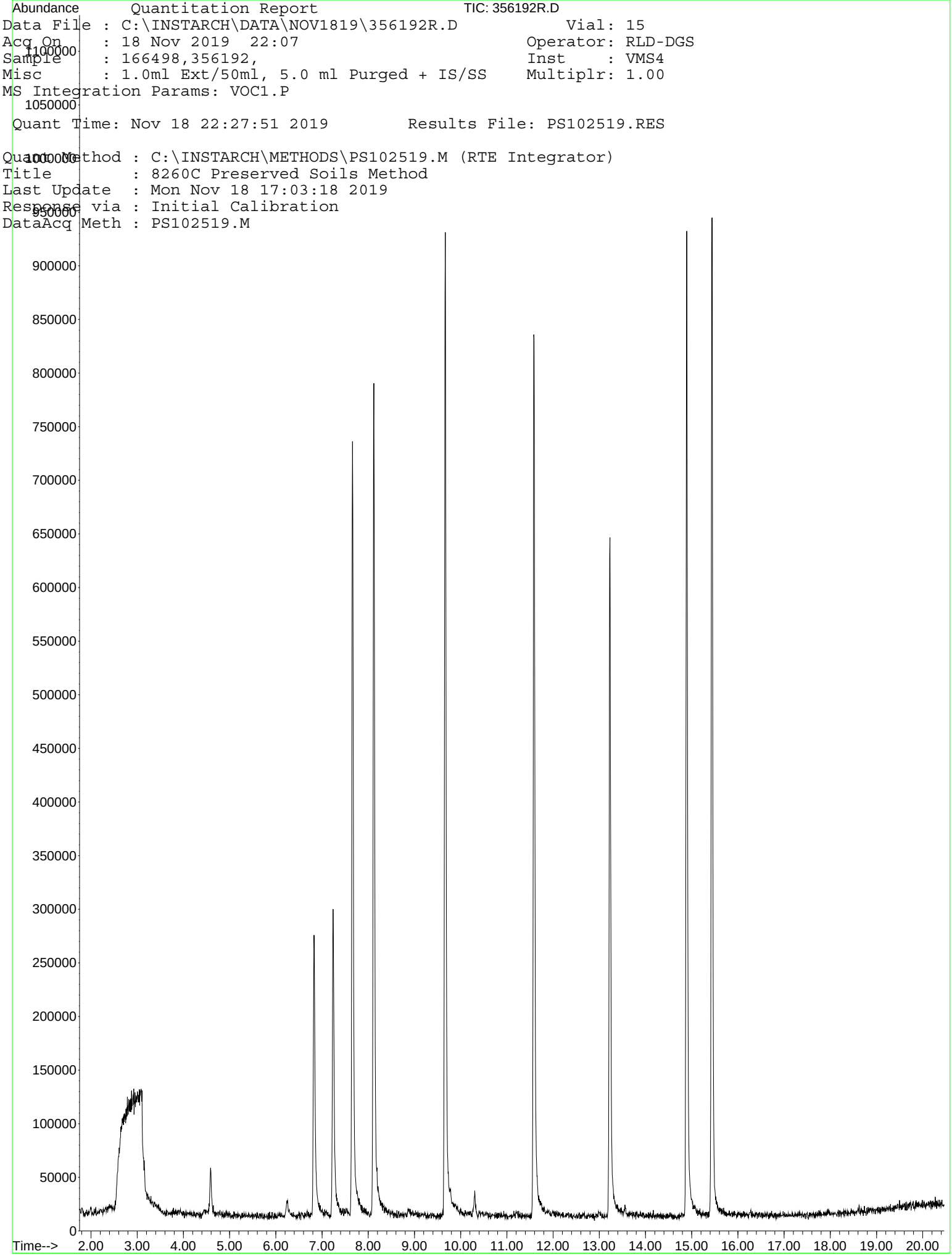
Data File : C:\INSTARCH\DATA\NOV1819\356192R.D Vial: 15
Acq On : 18 Nov 2019 22:07 Operator: RLD-DGS
Sample : 166498,356192, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

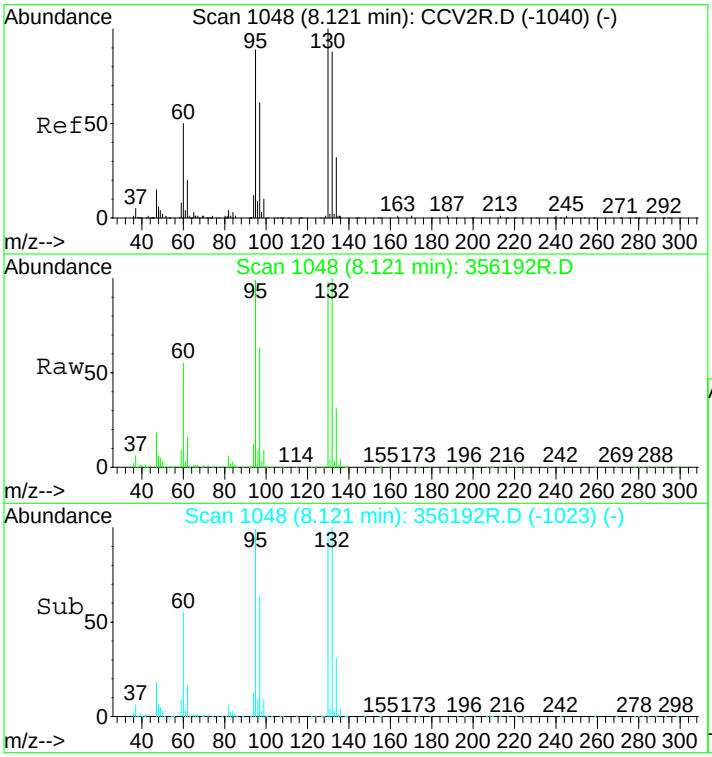
Quant Time: Nov 18 22:27:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

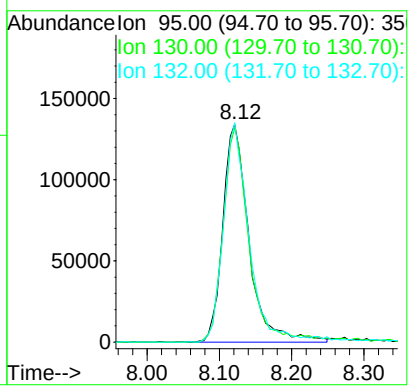

Abundance
Quantitation Report
TIC: 356192R.D
Data File : C:\INSTARCH\DATA\NOV1819\356192R.D
Vial: 15
Acq On : 18 Nov 2019 22:07
Operator: RLD-DGS
Sample : 166498,356192,
Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC1.P
Quant Time: Nov 18 22:27:51 2019
Results File: PS102519.RES
Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
1100000
1050000
1000000
950000
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00



#49
trichloroete
Concen: 1.72 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356192R.D
Acq: 18 Nov 2019 22:07

Tgt Ion: 95 Resp: 336944

Ion	Ratio	Lower	Upper
95	100		
130	96.7	79.6	119.6
132	98.5	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356193R.D Vial: 16
Acq On : 18 Nov 2019 22:35 Operator: RLD-DGS
Sample : 166498,356193,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 22:56:13 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	816357	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	652919	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	340602	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	211364	0.990	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
45) SURR12DCAd4	7.24	102	47520	0.903	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90 %			
61) SURRd8Tolule	9.67	98	808736	0.973	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
83) SURR4BrFBenz	13.23	95	307012	0.937	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.07	50	1686	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.65	94	4051	Below Cal	#	57
6) Chloroethane	2.79	64	1398	N.D.		
7) dichloroflmethane	3.10	67	1406	Below Cal	#	1
8) Trichlorofma	3.06	101	1285	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.10	43	1076	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.49	41	1130	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	22527	0.0923	mg/kg#	87
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	2806	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.61	43	1065	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	13658	0.0621	mg/kg#	79
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.65	42	1165	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356193R.D Vial: 16
Acq On : 18 Nov 2019 22:35 Operator: RLD-DGS
Sample : 166498,356193,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 22:56:13 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	1398507	7.0220 mg/kg	98
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.91	75	2101	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	2266	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.23	55	1398	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.44	75	1898	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.44	91	1270	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356193R.D Vial: 16
Acq On : 18 Nov 2019 22:35 Operator: RLD-DGS
Sample : 166498,356193,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 22:56:13 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

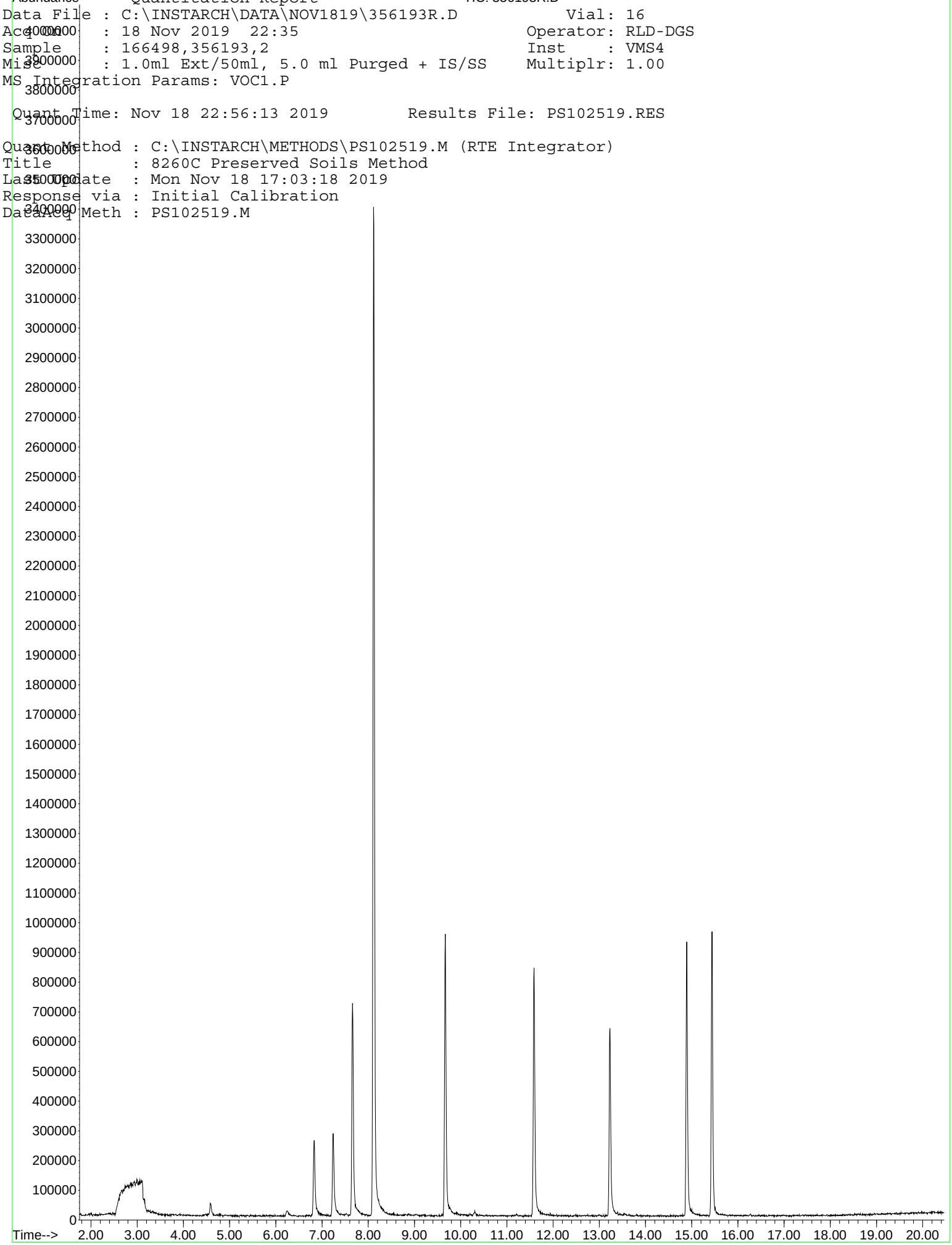
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356193R.D

Data File : C:\INSTARCH\DATA\NOV1819\356193R.D Vial: 16
Acq On : 18 Nov 2019 22:35 Operator: RLD-DGS
Sample : 166498,356193,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 22:56:13 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356194R.D Vial: 17
Acq On : 18 Nov 2019 23:04 Operator: RLD-DGS
Sample : 166498,356194,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 23:25:10 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	818153	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	662365	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	347118	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	216393	1.011	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.25	102	47508	0.900	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90 %			
61) SURRd8Tolule	9.67	98	819242	0.983	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	316450	0.948	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.05	50	1381	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	2176	Below	Cal #	36
6) Chloroethane	2.91	64	3537	0.0577	mg/kg	84
7) dichloroflmethane	3.02	67	1054	Below	Cal #	1
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.19	43	5355	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.45	41	1487	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	26589	0.1110	mg/kg	94
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	3270	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.70	45	1062	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	3396	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.70	42	1173	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356194R.D Vial: 17
Acq On : 18 Nov 2019 23:04 Operator: RLD-DGS
Sample : 166498,356194,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 23:25:10 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	747998	3.7475 mg/kg	96
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.04	43	1355	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.90	75	3369	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.59	91	1878	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.23	55	1375	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.37	75	1175	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356194R.D Vial: 17
Acq On : 18 Nov 2019 23:04 Operator: RLD-DGS
Sample : 166498,356194,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 23:25:10 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

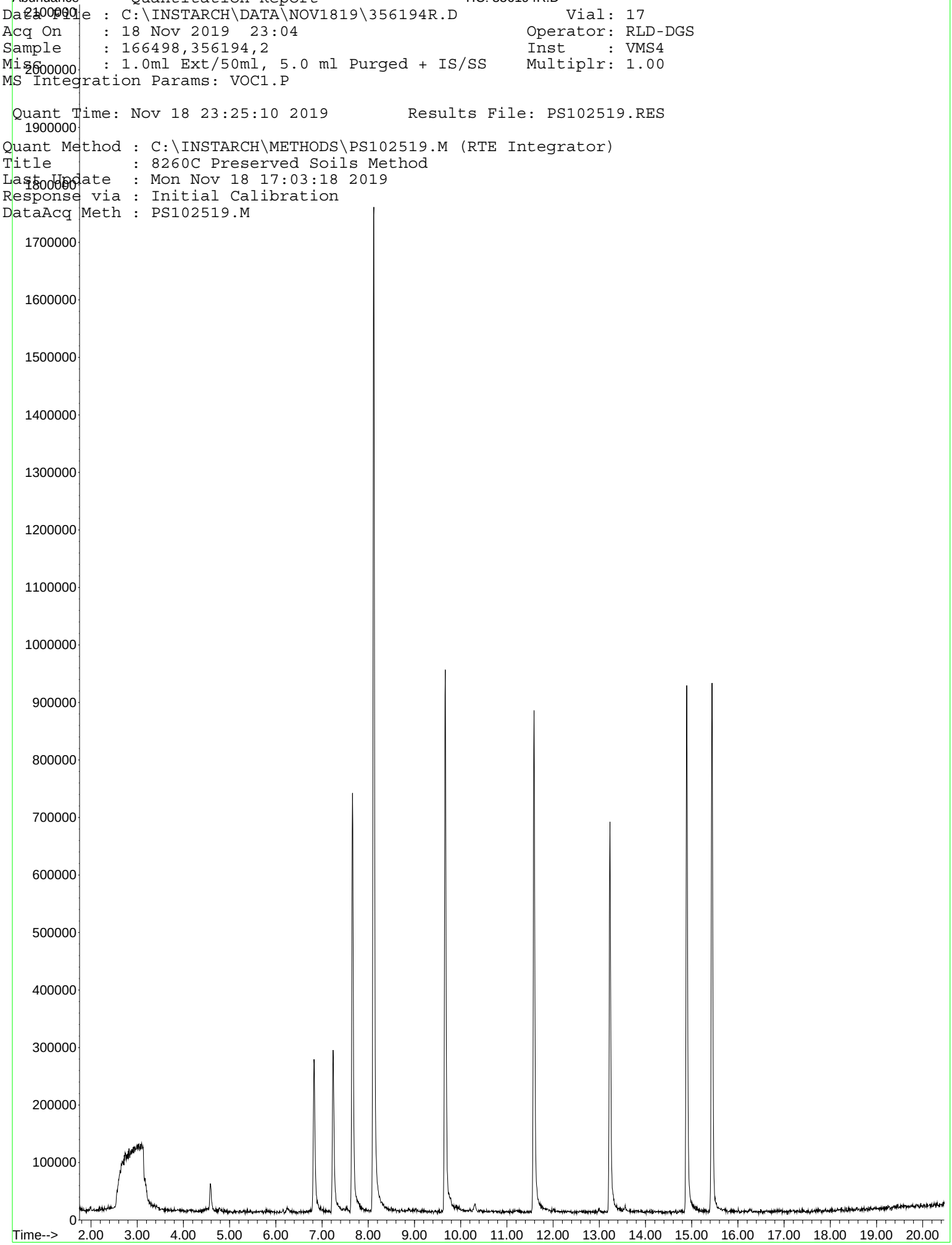
(#) = qualifier out of range (m) = manual integration

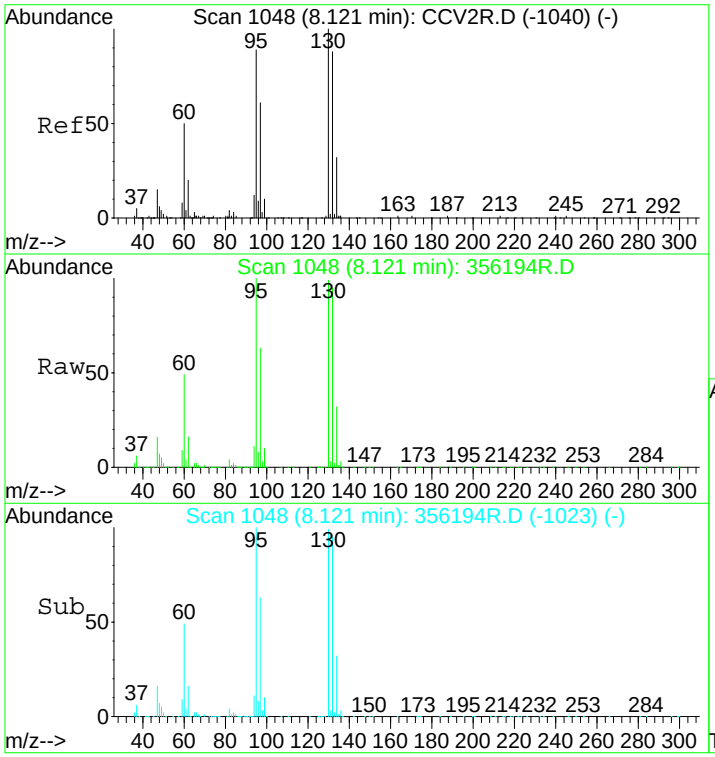
Abundance Quantitation Report TIC: 356194R.D

Data File : C:\INSTARCH\DATA\NOV1819\356194R.D Vial: 17
Acq On : 18 Nov 2019 23:04 Operator: RLD-DGS
Sample : 166498,356194,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 23:25:10 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

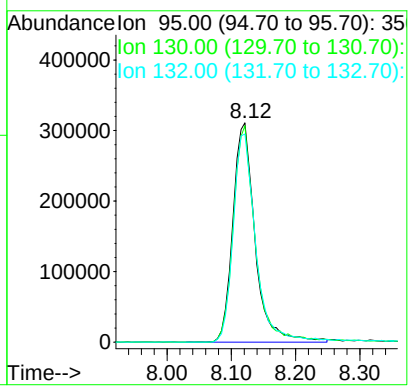




#49
trichloroete
Concen: 3.75 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356194R.D
Acq: 18 Nov 2019 23:04

Tgt Ion: 95 Resp: 747998

Ion	Ratio	Lower	Upper
95	100		
130	97.2	79.6	119.6
132	95.8	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356197R.D Vial: 18
Acq On : 18 Nov 2019 23:33 Operator: RLD-DGS
Sample : 166498,356197,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 23:53:43 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	794948	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	651002	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.90	152	334409	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	209852	1.009	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.24	102	49257	0.961	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
61) SURRd8Tolule	9.67	98	796604	0.984	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	296622	0.922	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.05	50	2445	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	2078	Below	Cal #	53
6) Chloroethane	2.79	64	1686	N.D.		
7) dichloroflmethane	3.11	67	1174	Below	Cal #	1
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.11	43	1235	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.44	41	1095	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	24578	0.1050	mg/kg	95
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	2417	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.30	57	1435	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.62	45	1038	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.23	96	5166	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356197R.D Vial: 18
Acq On : 18 Nov 2019 23:33 Operator: RLD-DGS
Sample : 166498,356197,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 23:53:43 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	124973	0.6444 mg/kg	94
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	8.92	43	1039	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.59	91	1745	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.26	55	1173	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.47	75	3156	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.45	91	1142	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356197R.D Vial: 18
Acq On : 18 Nov 2019 23:33 Operator: RLD-DGS
Sample : 166498,356197,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 23:53:43 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

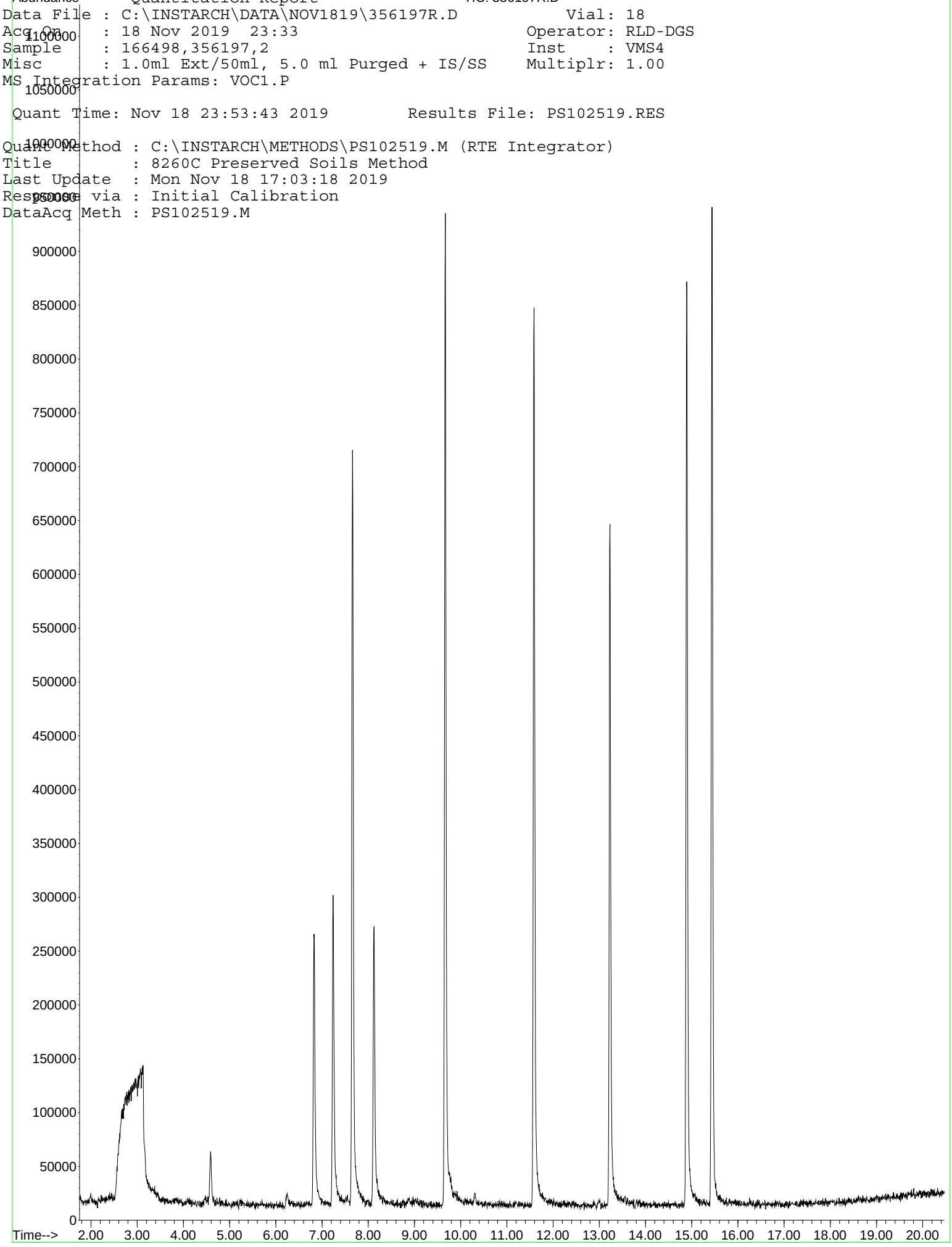
(#) = qualifier out of range (m) = manual integration

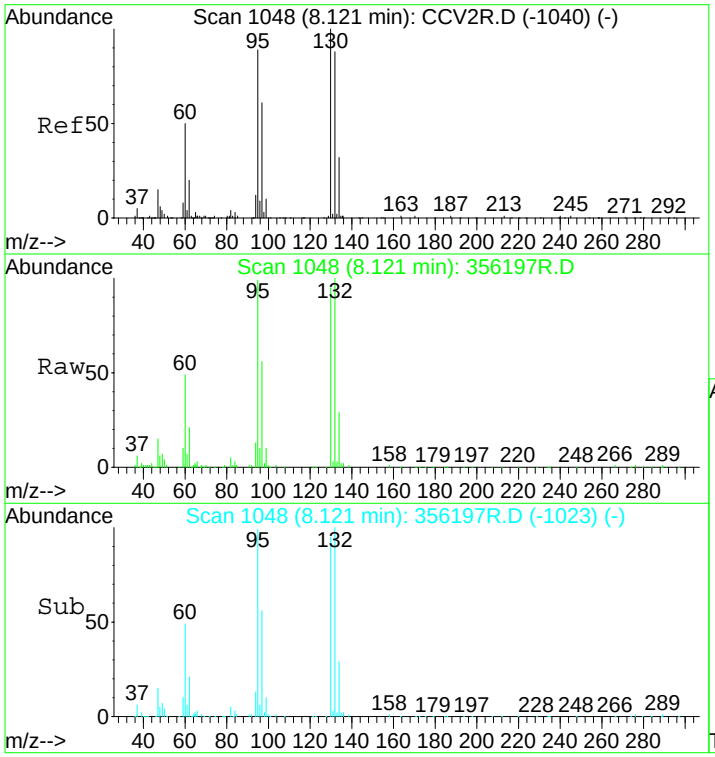
Abundance Quantitation Report TIC: 356197R.D

Data File : C:\INSTARCH\DATA\NOV1819\356197R.D Vial: 18
Acq On : 18 Nov 2019 23:33 Operator: RLD-DGS
Sample : 166498,356197,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 23:53:43 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

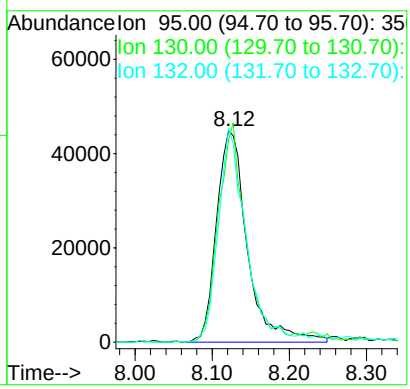




#49
trichloroete
Concen: 0.64 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356197R.D
Acq: 18 Nov 2019 23:33

Tgt Ion: 95 Resp: 124973

Ion	Ratio	Lower	Upper
95	100		
130	95.7	79.6	119.6
132	92.9	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356198R.D Vial: 19
Acq On : 19 Nov 2019 00:01 Operator: RLD-DGS
Sample : 166498,356198, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 00:22:10 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	807544	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	646854	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	334293	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	211264	1.000	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	48446	0.930	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93 %			
61) SURRd8Tolule	9.67	98	802013	0.975	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	302432	0.940	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.06	50	1875	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	2175	Below	Cal #	62
6) Chloroethane	2.82	64	2970	0.0491	mg/kg	80
7) dichloroflmethane	3.08	67	1091	Below	Cal #	1
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.12	43	2263	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.42	41	1355	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	21992	0.0910	mg/kg	88
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.87	59	1604	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356198R.D Vial: 19
Acq On : 19 Nov 2019 00:01 Operator: RLD-DGS
Sample : 166498,356198, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 00:22:10 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	5930	0.0301 mg/kg#	67
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.91	75	1545	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.59	91	1219	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.51	75	1181	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356198R.D Vial: 19
Acq On : 19 Nov 2019 00:01 Operator: RLD-DGS
Sample : 166498,356198, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 00:22:10 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

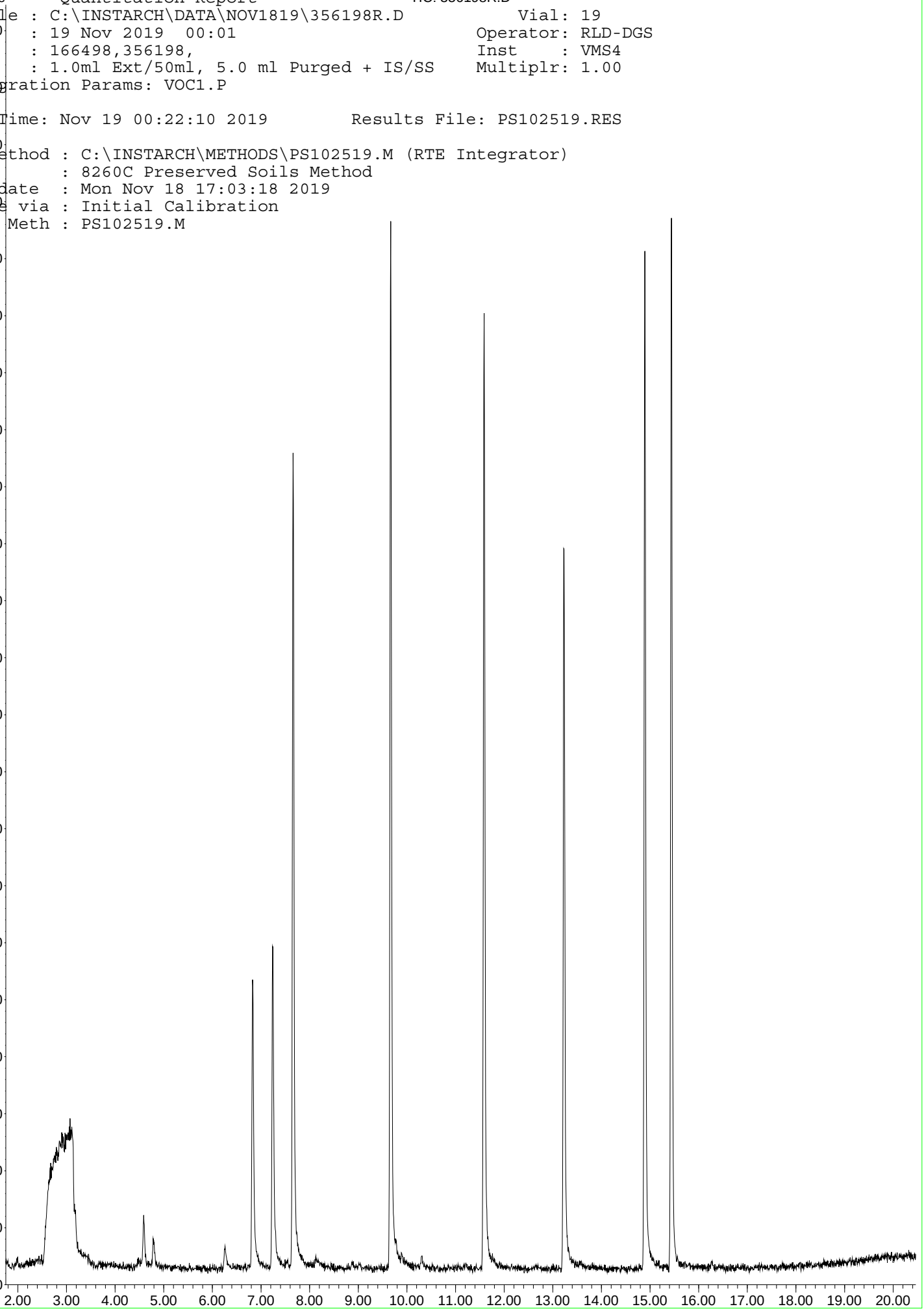
(#) = qualifier out of range (m) = manual integration

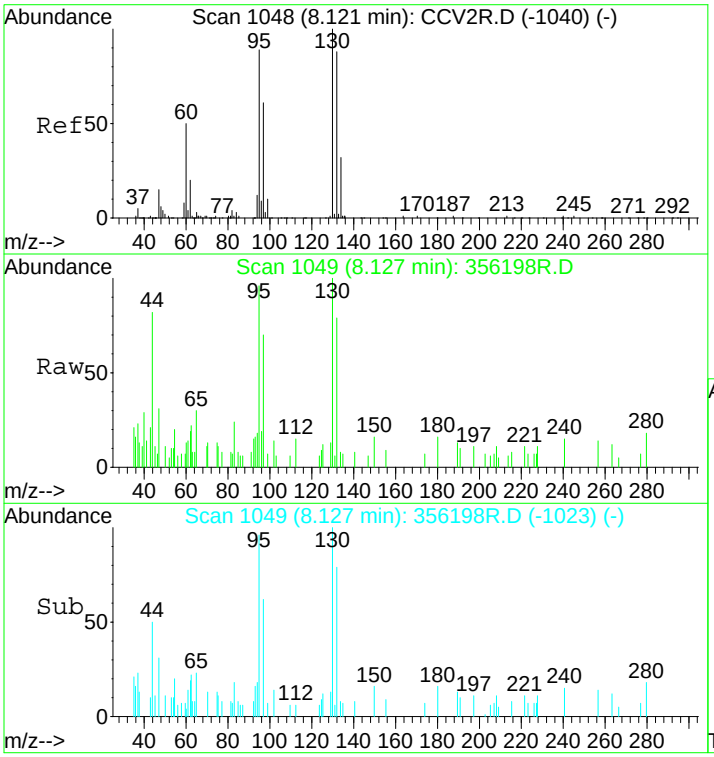
Abundance Quantitation Report TIC: 356198R.D

Data File : C:\INSTARCH\DATA\NOV1819\356198R.D Vial: 19
Acq On : 19 Nov 2019 00:01 Operator: RLD-DGS
Sample : 166498,356198, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 00:22:10 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

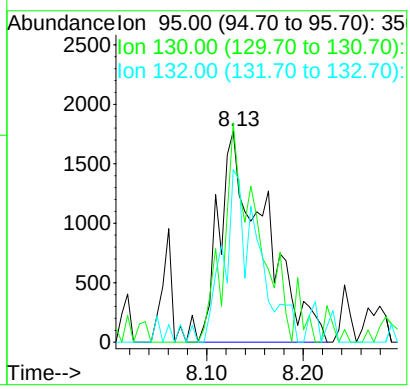




#49
trichloroete
Concen: 0.03 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356198R.D
Acq: 19 Nov 2019 00:01

Tgt Ion: 95 Resp: 5930

Ion	Ratio	Lower	Upper
95	100		
130	73.5	79.6	119.6#
132	60.1	80.5	120.5#



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356199R.D Vial: 20
Acq On : 19 Nov 2019 00:30 Operator: RLD-DGS
Sample : 166498,356199, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 00:51:01 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	797382	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	652477	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	343223	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	208957	1.002	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	49171	0.956	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
61) SURRd8Tolule	9.67	98	798846	0.984	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	299677	0.907	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.67	94	4345	N.D.		
6) Chloroethane	2.77	64	2578	0.0432	mg/kg	79
7) dichloroflmethane	3.07	67	1468	Below Cal #		1
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	18913	0.0776	mg/kg	93
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	1283	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	18947	0.0882	mg/kg	88
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356199R.D Vial: 20
Acq On : 19 Nov 2019 00:30 Operator: RLD-DGS
Sample : 166498,356199, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 00:51:01 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	326851	1.6802 mg/kg	96
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.02	43	1809	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	1959	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.22	55	1524	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.47	75	1000	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.43	91	1136	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356199R.D Vial: 20
Acq On : 19 Nov 2019 00:30 Operator: RLD-DGS
Sample : 166498,356199, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 00:51:01 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

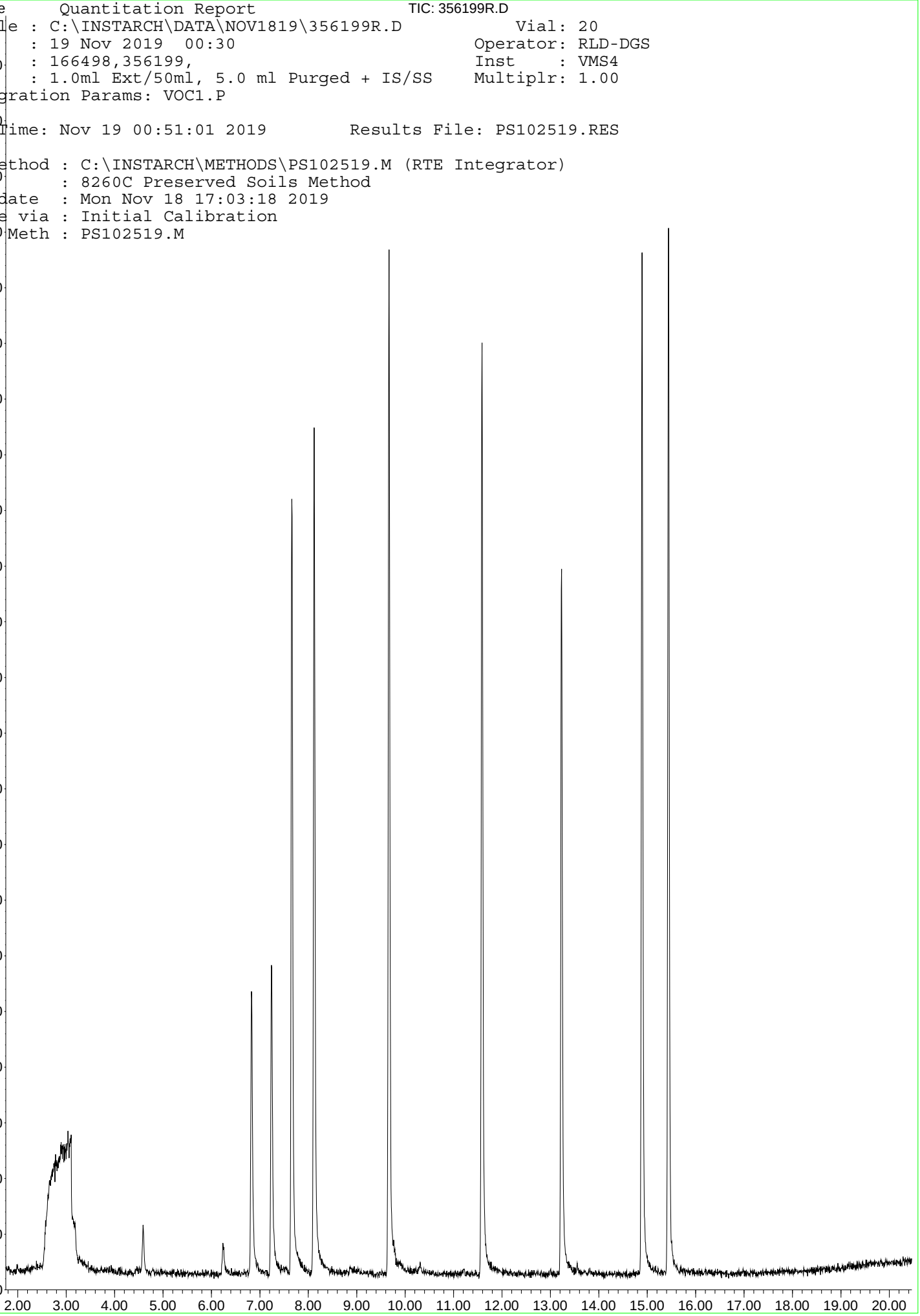
(#) = qualifier out of range (m) = manual integration

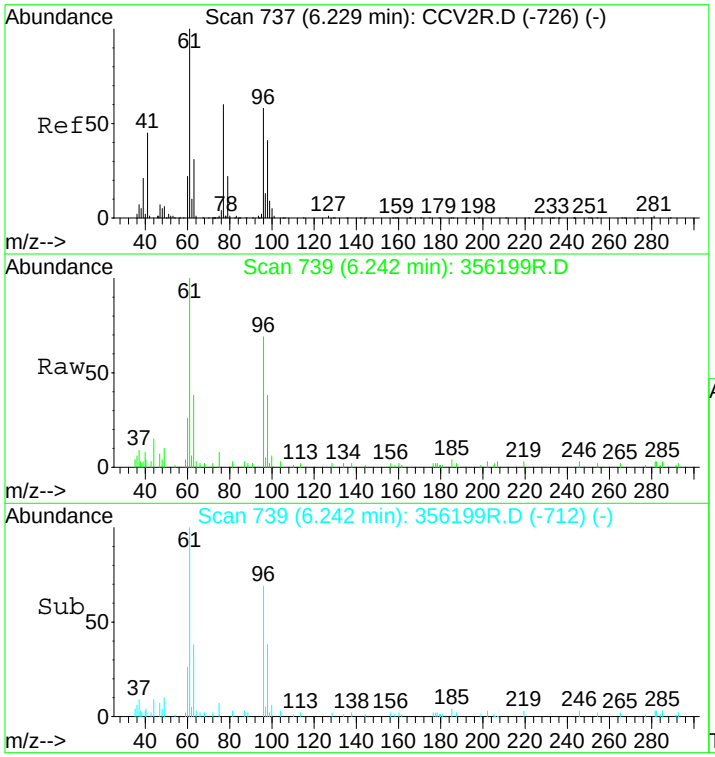
Abundance Quantitation Report TIC: 356199R.D

Data File : C:\INSTARCH\DATA\NOV1819\356199R.D Vial: 20
Acq On : 19 Nov 2019 00:30 Operator: RLD-DGS
Sample : 166498,356199, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 00:51:01 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

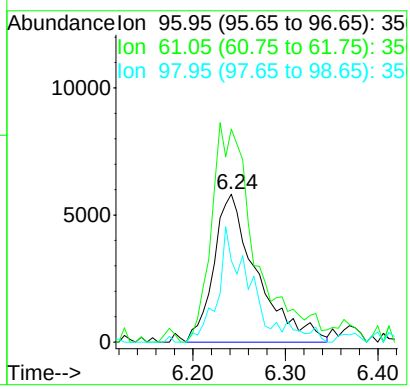


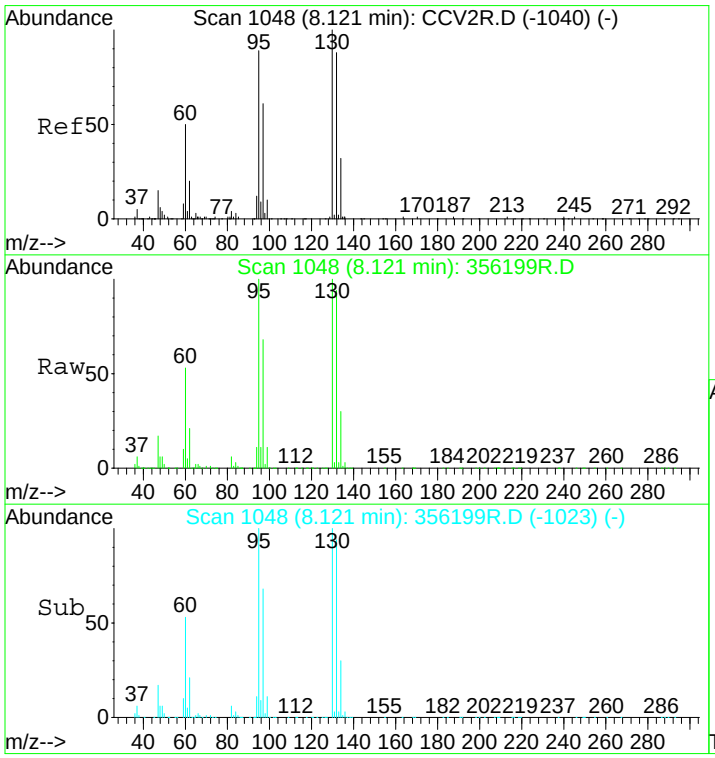


#32
c12dichlorte
Concen: 0.09 mg/kg
RT: 6.24 min Scan# 739
Delta R.T. 0.01 min
Lab File: 356199R.D
Acq: 19 Nov 2019 00:30

Tgt Ion: 96 Resp: 18947

Ion	Ratio	Lower	Upper
96	100		
61	151.9	151.9	191.9
98	60.5	43.3	83.3

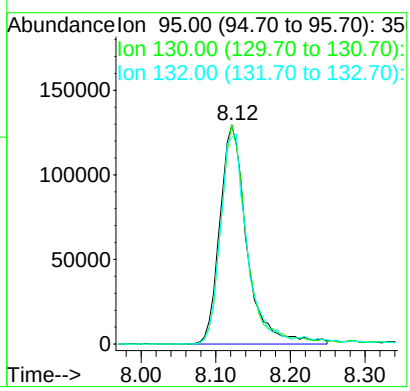




#49
trichloroete
Concen: 1.68 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356199R.D
Acq: 19 Nov 2019 00:30

Tgt Ion: 95 Resp: 326851

Ion	Ratio	Lower	Upper
95	100		
130	95.9	79.6	119.6
132	95.6	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356200R.D Vial: 21
Acq On : 19 Nov 2019 00:59 Operator: RLD-DGS
Sample : 166498,356200, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 01:19:43 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	847972	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	678967	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	343727	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	213582	0.963	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
45) SURR12DCAd4	7.24	102	50401	0.922	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92 %			
61) SURRd8Tolule	9.67	98	835866	0.968	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
83) SURR4BrFBenz	13.23	95	314514	0.951	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.07	50	1115	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	2281	Below Cal		92
6) Chloroethane	2.79	64	1426	N.D.		
7) dichloroflmethane	3.09	67	1079	Below Cal #		1
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.12	43	2692	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.42	41	2198	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	23567	0.0931	mg/kg	95
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.81	59	2213	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	24965	0.1093	mg/kg#	82
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356200R.D Vial: 21
Acq On : 19 Nov 2019 00:59 Operator: RLD-DGS
Sample : 166498,356200, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 01:19:43 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	252279	1.2195 mg/kg	99
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.90	75	2346	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.60	91	1294	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.23	55	1020	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.51	75	1114	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.89	146	1024	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.89	146	1024	N.D.	
98)	12dichlorobe	15.43	146	1194	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356200R.D Vial: 21
Acq On : 19 Nov 2019 00:59 Operator: RLD-DGS
Sample : 166498,356200, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 01:19:43 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

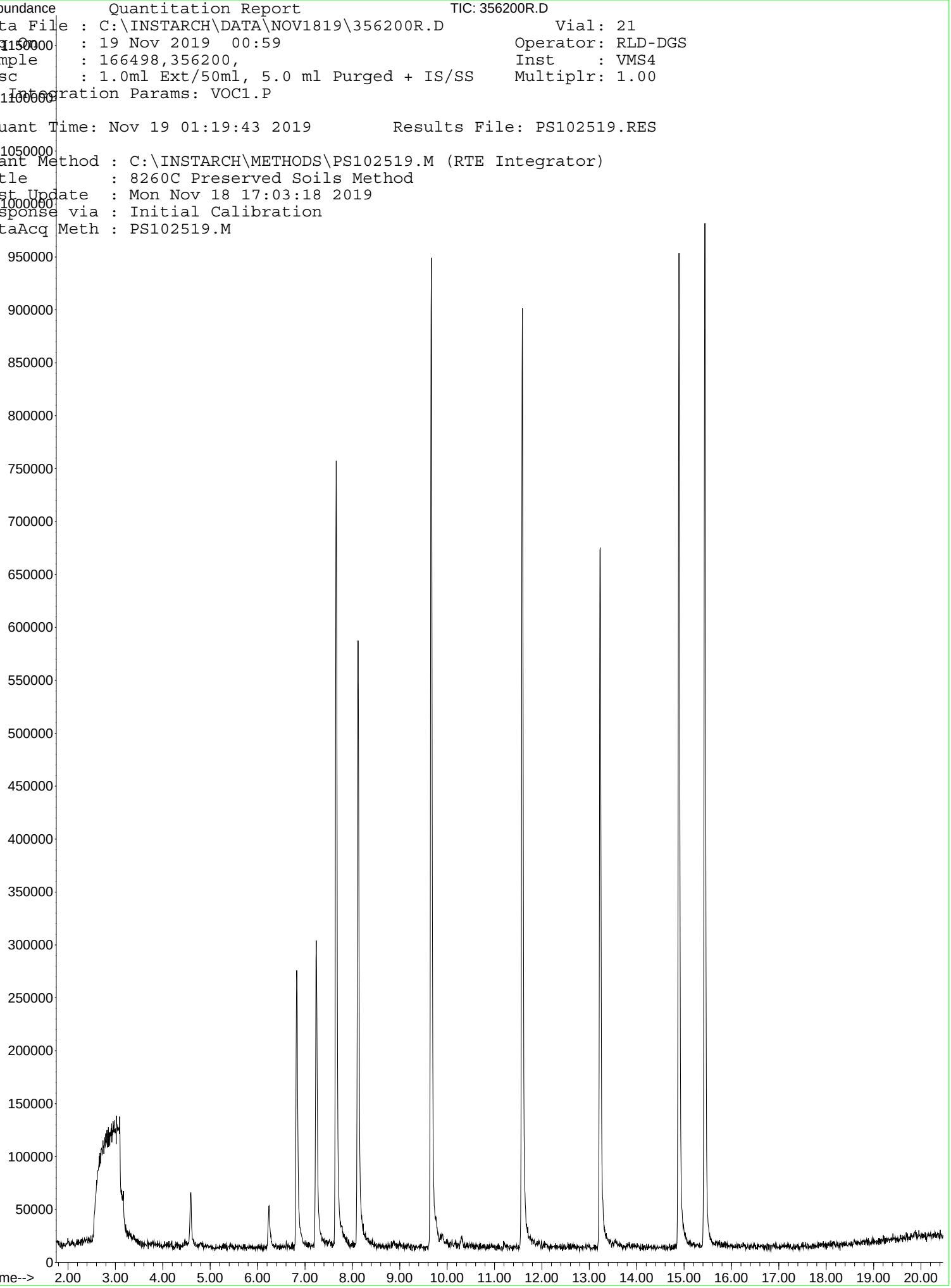
(#) = qualifier out of range (m) = manual integration

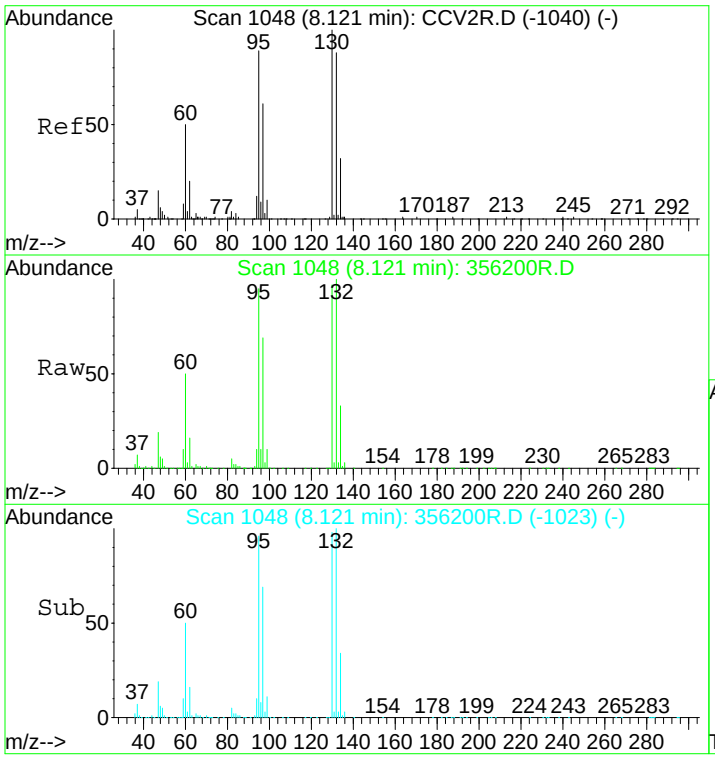
Abundance Quantitation Report TIC: 356200R.D

Data File : C:\INSTARCH\DATA\NOV1819\356200R.D Vial: 21
Acq On : 19 Nov 2019 00:59 Operator: RLD-DGS
Sample : 166498,356200, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 01:19:43 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

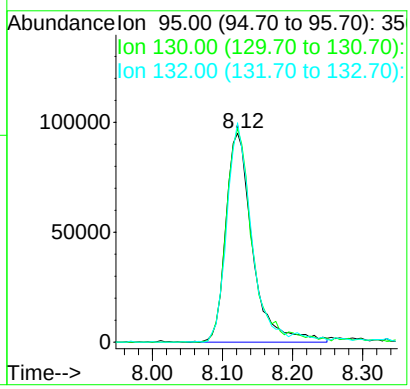




#49
trichloroete
Concen: 1.22 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356200R.D
Acq: 19 Nov 2019 00:59

Tgt Ion: 95 Resp: 252279

Ion	Ratio	Lower	Upper
95	100		
130	100.7	79.6	119.6
132	99.2	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356201R.D Vial: 22
Acq On : 19 Nov 2019 1:27 Operator: RLD-DGS
Sample : 166498,356201, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 01:48:08 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	818945	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	670129	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	339534	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	207702	0.970	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
45) SURR12DCAd4	7.24	102	53332	1.010	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
61) SURRd8Tolule	9.67	98	802164	0.962	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
83) SURR4BrFBenz	13.23	95	308790	0.945	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	2052	Below Cal #		1
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	3.11	67	1164	Below Cal #		1
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.11	43	1695	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	28068	0.1177	mg/kg	94
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	2306	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.52	45	1246	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	47861	0.2169	mg/kg#	87
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356201R.D Vial: 22
Acq On : 19 Nov 2019 1:27 Operator: RLD-DGS
Sample : 166498,356201, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 01:48:08 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	672045	3.3637 mg/kg	96
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	1473	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.23	55	1151	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.43	75	1150	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.89	146	1274	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.89	146	1274	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.43	91	1300	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356201R.D Vial: 22
Acq On : 19 Nov 2019 1:27 Operator: RLD-DGS
Sample : 166498,356201, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 01:48:08 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

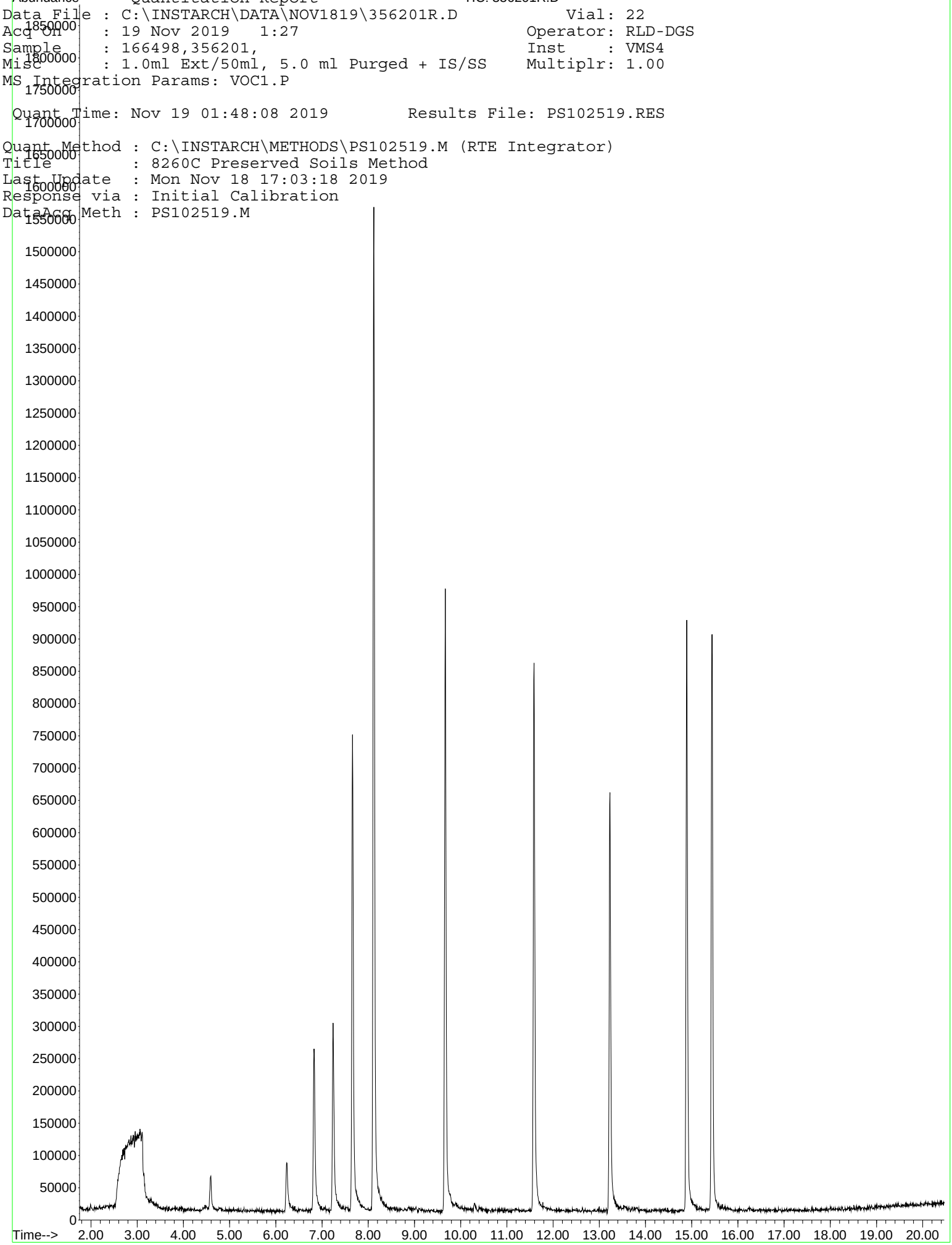
(#) = qualifier out of range (m) = manual integration

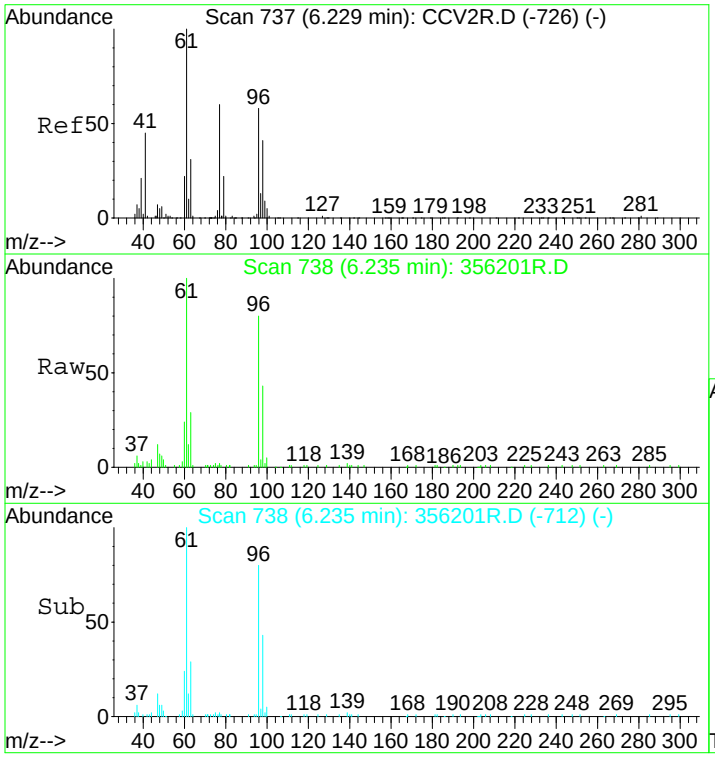
Abundance Quantitation Report TIC: 356201R.D

Data File : C:\INSTARCH\DATA\NOV1819\356201R.D Vial: 22
Acq On : 19 Nov 2019 1:27 Operator: RLD-DGS
Sample : 166498,356201, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 01:48:08 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

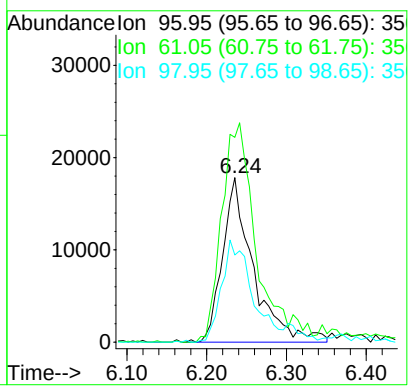


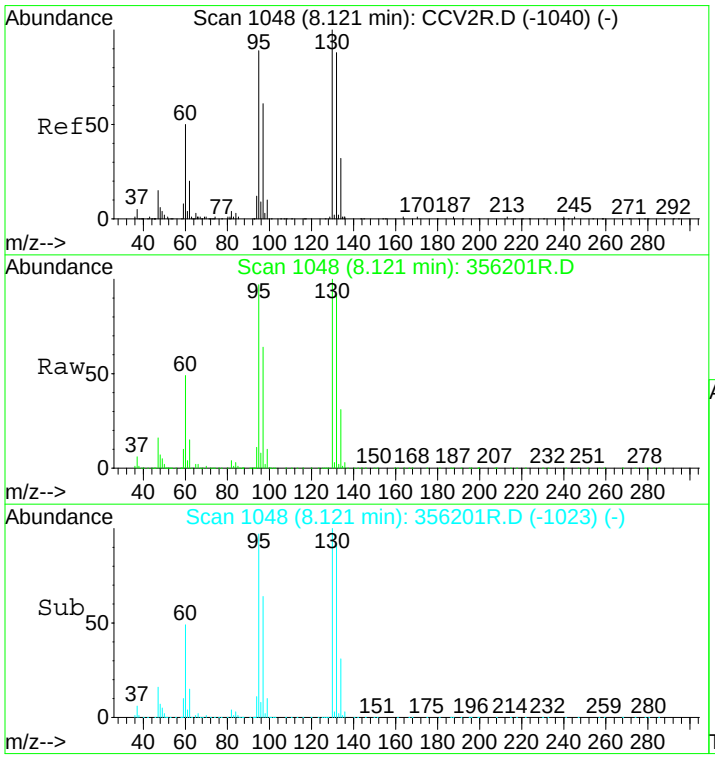


#32
c12dichlorte
Concen: 0.22 mg/kg
RT: 6.24 min Scan# 738
Delta R.T. 0.01 min
Lab File: 356201R.D
Acq: 19 Nov 2019 1:27

Tgt Ion: 96 Resp: 47861

Ion	Ratio	Lower	Upper
96	100		
61	151.1	151.9	191.9#
98	68.3	43.3	83.3

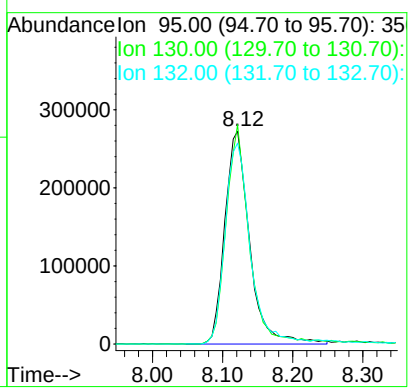




#49
trichloroete
Concen: 3.36 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356201R.D
Acq: 19 Nov 2019 1:27

Tgt Ion: 95 Resp: 672045

Ion	Ratio	Lower	Upper
95	100		
130	95.9	79.6	119.6
132	96.0	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356202R.D Vial: 23
Acq On : 19 Nov 2019 1:56 Operator: RLD-DGS
Sample : 166498,356202,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 02:16:45 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	834254	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	677487	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	340751	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	214820	0.985	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
45) SURR12DCAd4	7.24	102	47868	0.890	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 89 %			
61) SURRd8Tolule	9.67	98	820141	0.965	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
83) SURR4BrFBenz	13.23	95	315693	0.963	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	2.22	62	2167	N.D.		
5) Bromomethane	2.66	94	3437	Below Cal	#	77
6) Chloroethane	2.78	64	1182	N.D.		
7) dichloroflmethane	3.15	67	2286	Below Cal	#	1
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.11	43	1770	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.50	41	1349	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	29225	0.1206 mg/kg	#	88
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.80	59	1766	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.32	57	1627	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.67	43	1049	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	31007	0.1379 mg/kg	#	84
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356202R.D Vial: 23
Acq On : 19 Nov 2019 1:56 Operator: RLD-DGS
Sample : 166498,356202,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 02:16:45 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	403224	1.9812 mg/kg	98
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	8.92	43	1221	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.90	75	2746	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	2547	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.38	75	3205	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.43	91	1515	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356202R.D Vial: 23
Acq On : 19 Nov 2019 1:56 Operator: RLD-DGS
Sample : 166498,356202,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 02:16:45 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

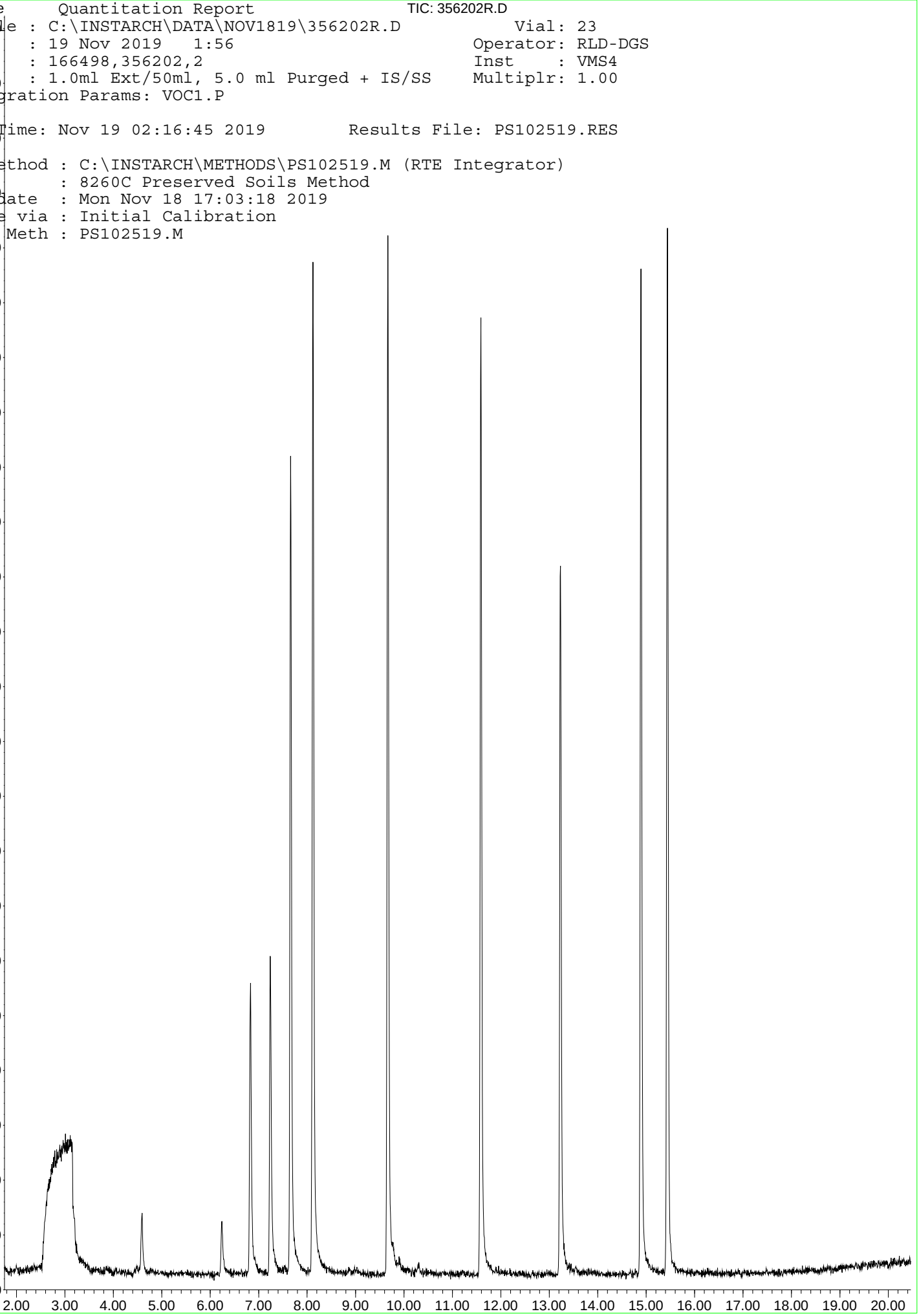
(#) = qualifier out of range (m) = manual integration

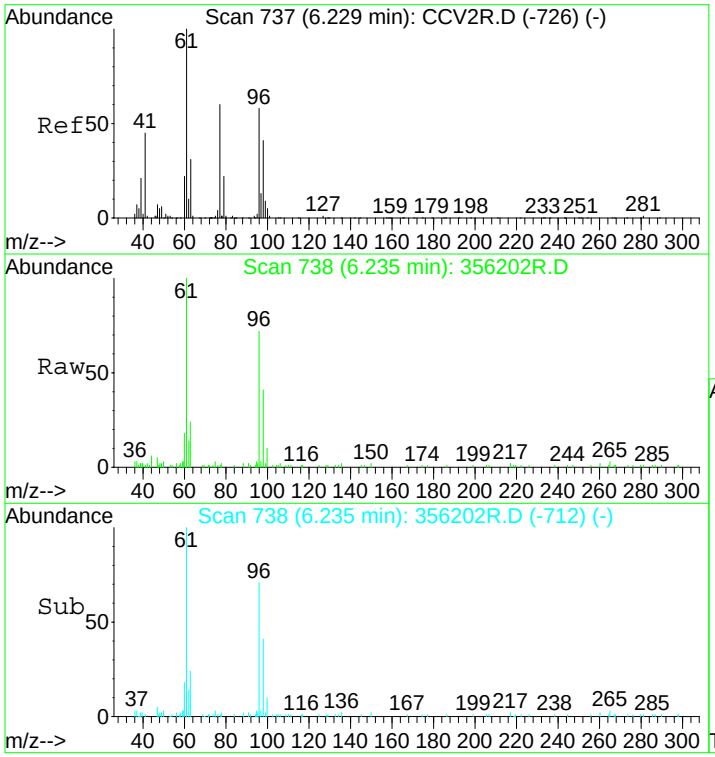
Abundance Quantitation Report TIC: 356202R.D

Data File : C:\INSTARCH\DATA\NOV1819\356202R.D Vial: 23
Acq On : 19 Nov 2019 1:56 Operator: RLD-DGS
Sample : 166498,356202,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 02:16:45 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

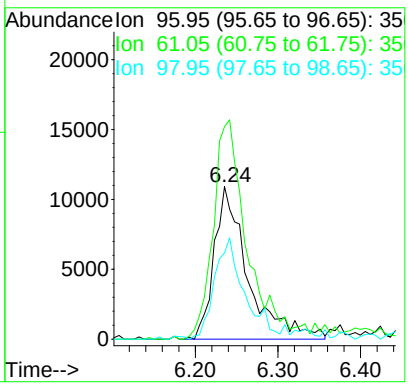


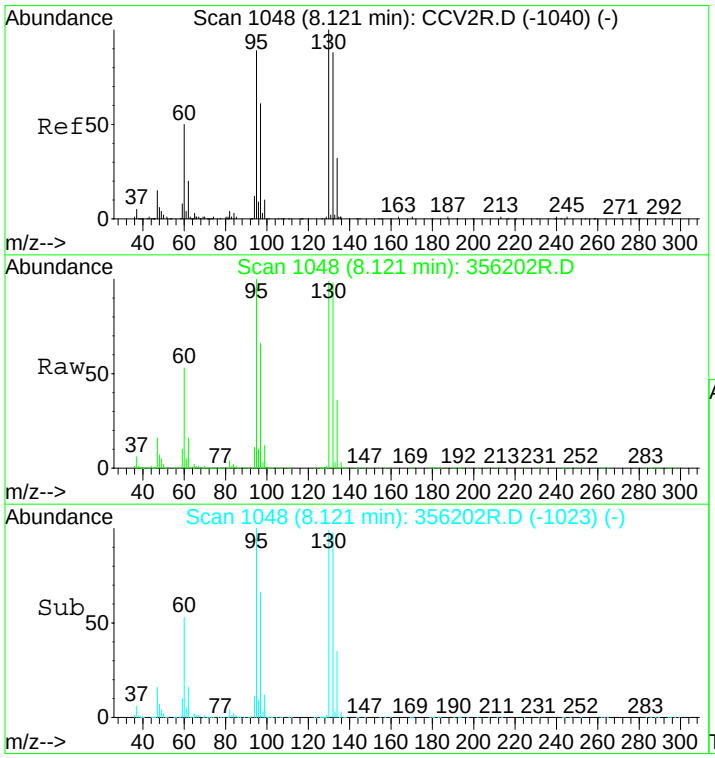


#32
c12dichlorte
Concen: 0.14 mg/kg
RT: 6.24 min Scan# 738
Delta R.T. 0.01 min
Lab File: 356202R.D
Acq: 19 Nov 2019 1:56

Tgt Ion: 96 Resp: 31007

Ion	Ratio	Lower	Upper
96	100		
61	144.1	151.9	191.9#
98	58.4	43.3	83.3

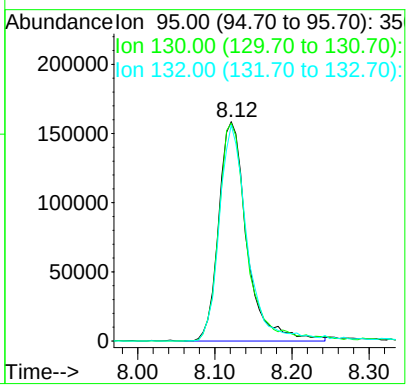




#49
trichloroete
Concen: 1.98 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356202R.D
Acq: 19 Nov 2019 1:56

Tgt Ion: 95 Resp: 403224

Ion	Ratio	Lower	Upper
95	100		
130	98.9	79.6	119.6
132	97.5	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356203R.D Vial: 24
Acq On : 19 Nov 2019 2:24 Operator: RLD-DGS
Sample : 166498,356203,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 02:45:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	837215	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	678948	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	345518	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	221067	1.010	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.24	102	50491	0.935	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			
61) SURRd8Tolule	9.67	98	833851	0.978	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	319862	0.962	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.07	50	1387	N.D.		
4) VinylChlorid	2.21	62	2964	N.D.		
5) Bromomethane	2.66	94	2410	Below Cal #		61
6) Chloroethane	2.80	64	1326	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.10	43	5237	N.D.		
16) Iodomethane	0.00	127	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	28251	0.1157	mg/kg	95
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.80	59	1621	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	30624	0.1358	mg/kg#	88
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.69	42	1252	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356203R.D Vial: 24
Acq On : 19 Nov 2019 2:24 Operator: RLD-DGS
Sample : 166498,356203,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 02:45:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	386872	1.8941 mg/kg	97
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.93	75	1117	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.52	43	1213	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	2650	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.21	55	1826	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.37	75	2436	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.44	91	1579	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356203R.D Vial: 24
Acq On : 19 Nov 2019 2:24 Operator: RLD-DGS
Sample : 166498,356203,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 02:45:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

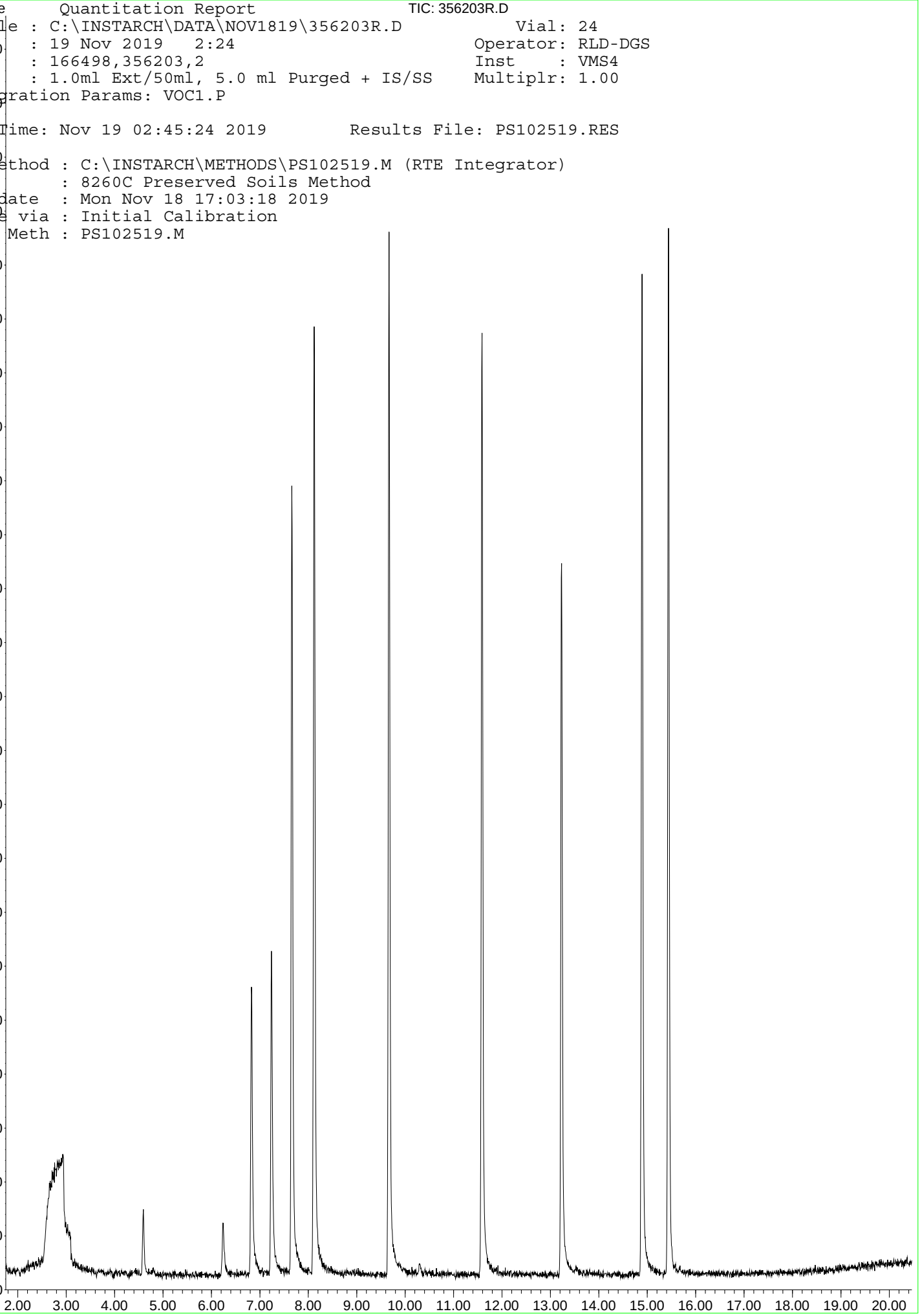
(#) = qualifier out of range (m) = manual integration

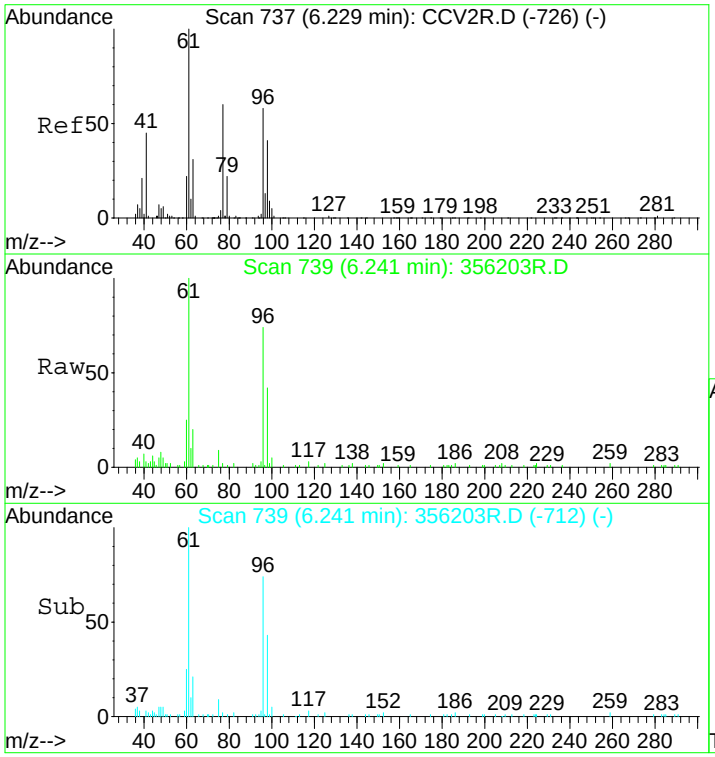
Abundance Quantitation Report TIC: 356203R.D

Data File : C:\INSTARCH\DATA\NOV1819\356203R.D Vial: 24
Acq On : 19 Nov 2019 2:24 Operator: RLD-DGS
Sample : 166498,356203,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 02:45:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

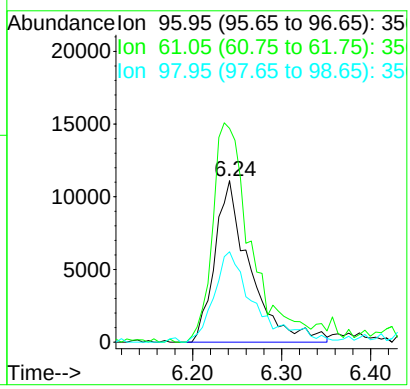


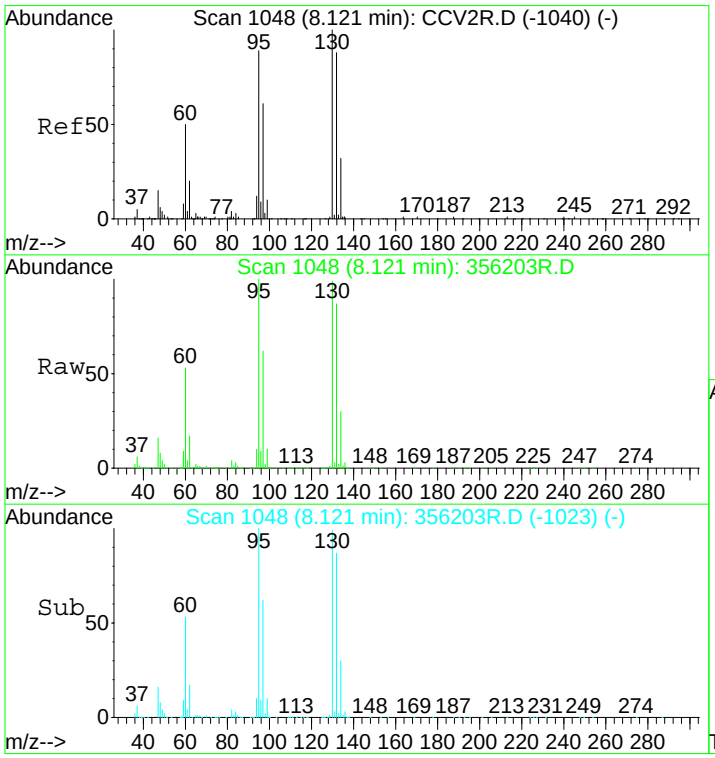


#32
c12dichlorte
Concen: 0.14 mg/kg
RT: 6.24 min Scan# 739
Delta R.T. 0.01 min
Lab File: 356203R.D
Acq: 19 Nov 2019 2:24

Tgt Ion: 96 Resp: 30624

Ion	Ratio	Lower	Upper
96	100		
61	150.8	151.9	191.9#
98	64.4	43.3	83.3

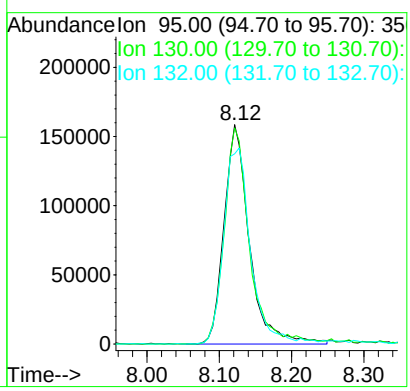




#49
trichloroete
Concen: 1.89 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356203R.D
Acq: 19 Nov 2019 2:24

Tgt Ion: 95 Resp: 386872

Ion	Ratio	Lower	Upper
95	100		
130	98.0	79.6	119.6
132	96.3	80.5	120.5



E-979

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356204R.D Vial: 33
Acq On : 19 Nov 2019 10:00 Operator: RLD-DGS
Sample : 166498,356204, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 10:21:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	857439	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	693704	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.90	152	362715	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	216214	0.964	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
45) SURR12DCAd4	7.24	102	54702	0.989	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
61) SURRd8Tolule	9.67	98	854198	0.978	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	325251	0.932	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93 %			
Target Compounds						Qvalue
2) Dichlorodi	1.79	85	1783	N.D.		
3) Chloromethan	2.05	50	1080	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	2949	Below Cal #		72
6) Chloroethane	2.81	64	1209	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	2559	N.D.		
16) Iodomethane	4.09	127	3849	0.1790	mg/kg#	38
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.49	41	1090	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	7849	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	2659	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.30	57	1505	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.23	96	16789	0.0727	mg/kg#	84
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.63	42	1092	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356204R.D Vial: 33
Acq On : 19 Nov 2019 10:00 Operator: RLD-DGS
Sample : 166498,356204, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 10:21:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	246801	1.1798 mg/kg	94
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.05	43	1156	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	0.00	91	0	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.21	55	1830	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.39	75	1257	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.89	146	1281	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.89	146	1404	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.43	91	1387	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356204R.D Vial: 33
Acq On : 19 Nov 2019 10:00 Operator: RLD-DGS
Sample : 166498,356204, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 10:21:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

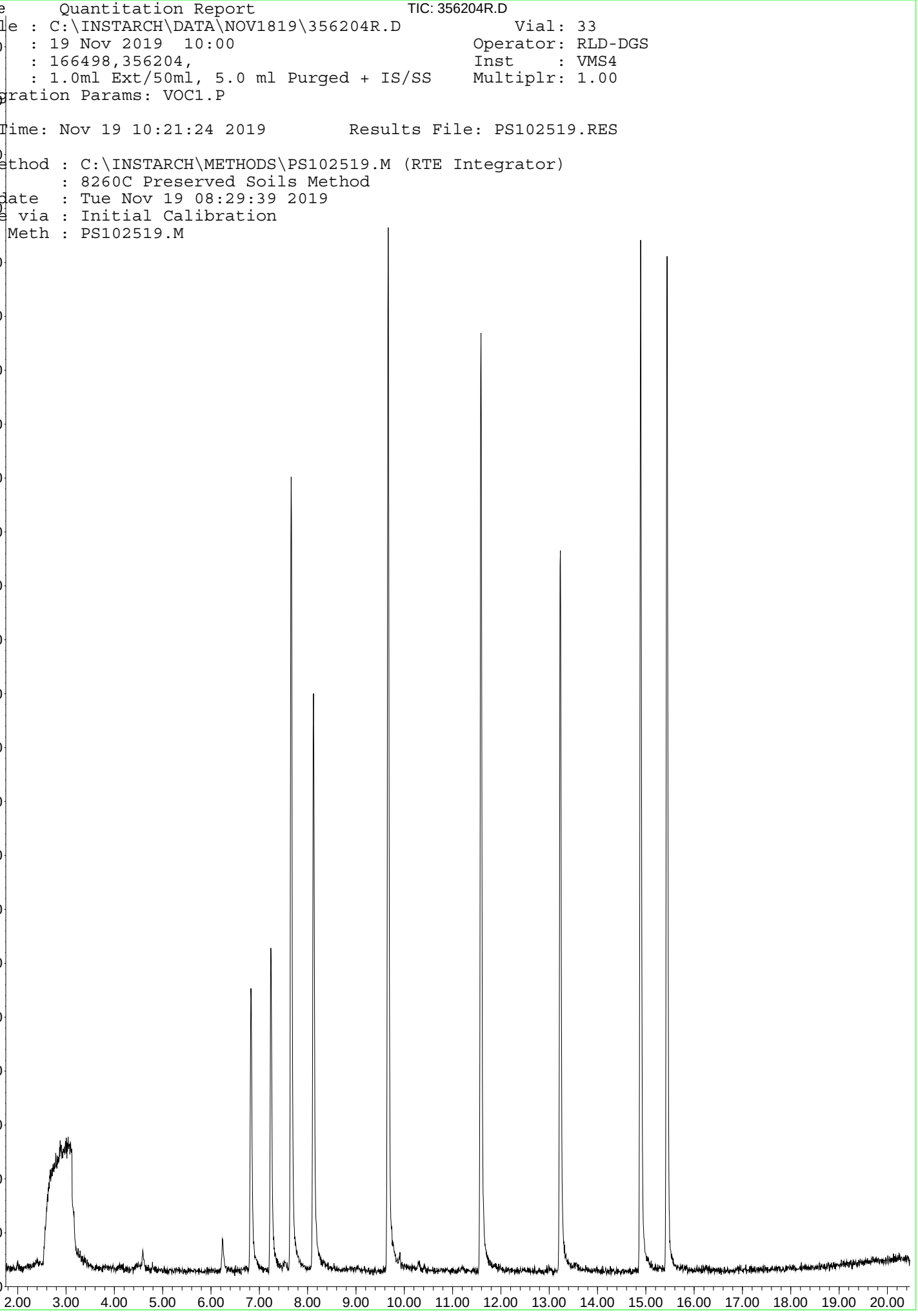
(#) = qualifier out of range (m) = manual integration

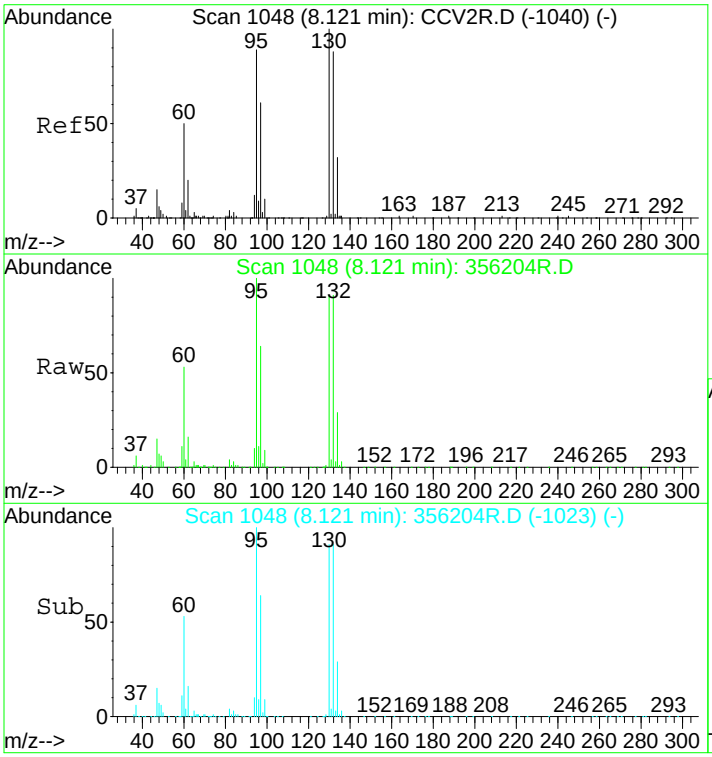
Abundance Quantitation Report TIC: 356204R.D

Data File : C:\INSTARCH\DATA\NOV1819\356204R.D Vial: 33
Acq On : 19 Nov 2019 10:00 Operator: RLD-DGS
Sample : 166498,356204, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 10:21:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

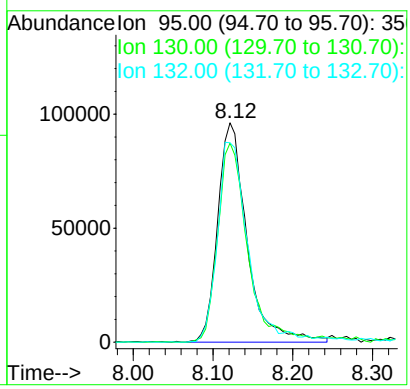




#49
trichloroete
Concen: 1.18 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356204R.D
Acq: 19 Nov 2019 10:00

Tgt Ion: 95 Resp: 246801

Ion	Ratio	Lower	Upper
95	100		
130	92.6	79.6	119.6
132	94.9	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356205R.D Vial: 34
Acq On : 19 Nov 2019 10:29 Operator: RLD-DGS
Sample : 166498,356205,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 10:49:57 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	878946	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	700548	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	350965	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	223049	0.970	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
45) SURR12DCAd4	7.25	102	50919	0.898	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90 %			
61) SURRd8Tolule	9.67	98	857099	0.957	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
83) SURR4BrFBenz	13.23	95	329840	0.977	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			

Target Compounds						Qvalue
2) Dichlorodi	1.81	85	1077	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	4312	Below Cal #		74
6) Chloroethane	2.77	64	1029	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	3.15	101	1256	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	4.09	127	1332	0.1439	mg/kg#	1
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.36	41	1022	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.58	84	6759	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	0.00	59	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.30	57	1086	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.61	45	1144	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.25	96	15115	0.0638	mg/kg	97
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.73	42	1156	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356205R.D Vial: 34
Acq On : 19 Nov 2019 10:29 Operator: RLD-DGS
Sample : 166498,356205,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 10:49:57 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	445717	2.0786 mg/kg	99
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	8.89	43	1077	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.90	75	3132	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.55	43	1138	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	1852	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.23	55	1604	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.41	75	1133	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.45	91	1199	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356205R.D Vial: 34
Acq On : 19 Nov 2019 10:29 Operator: RLD-DGS
Sample : 166498,356205,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 10:49:57 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

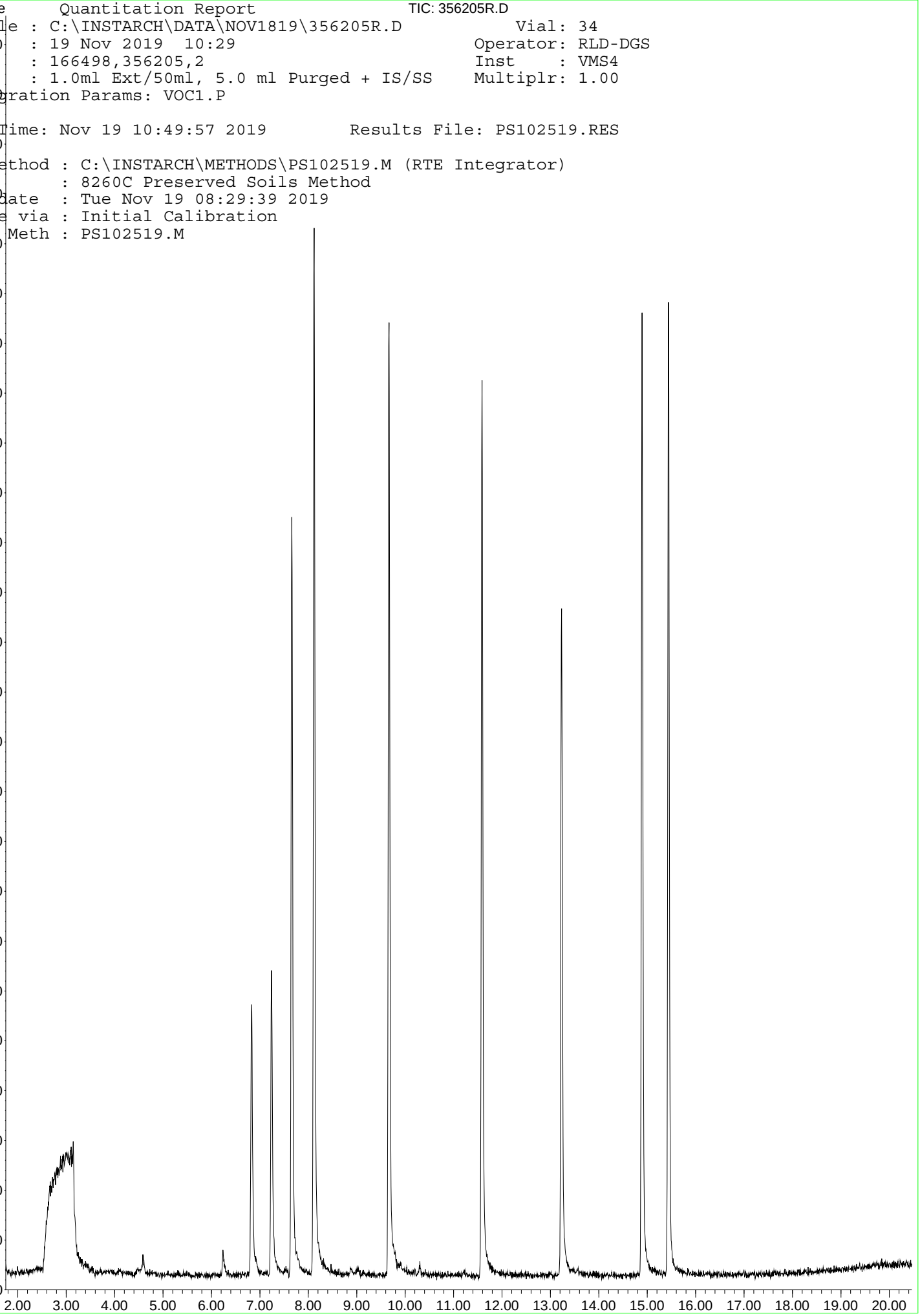
(#) = qualifier out of range (m) = manual integration

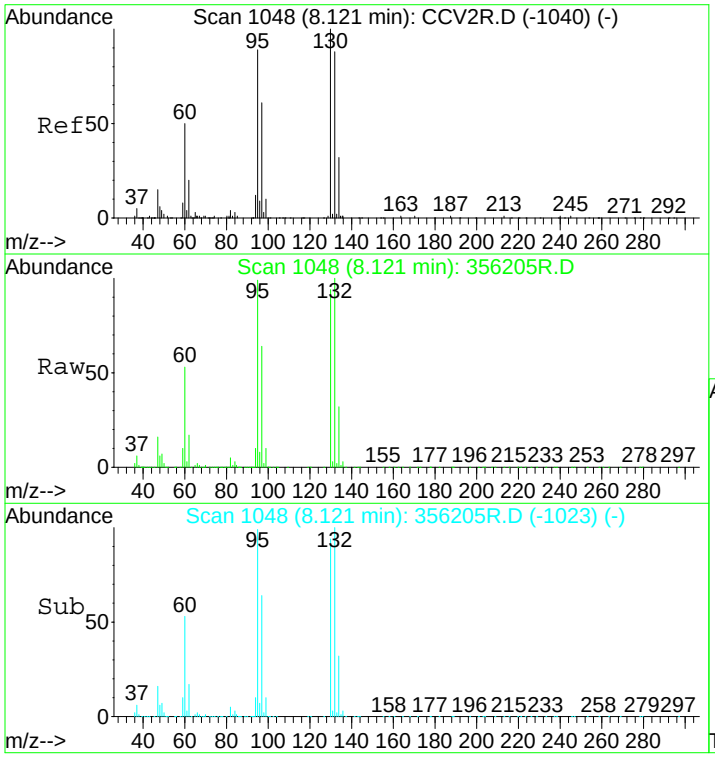
Abundance Quantitation Report TIC: 356205R.D

Data File : C:\INSTARCH\DATA\NOV1819\356205R.D Vial: 34
Acq On : 19 Nov 2019 10:29 Operator: RLD-DGS
Sample : 166498,356205,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 10:49:57 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

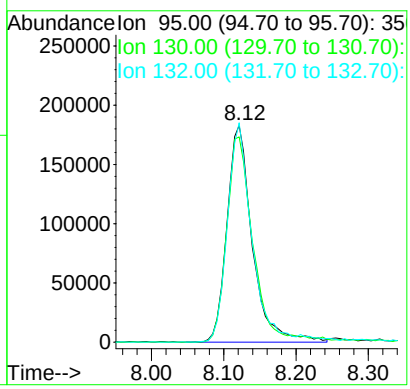




#49
trichloroete
Concen: 2.08 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356205R.D
Acq: 19 Nov 2019 10:29

Tgt Ion: 95 Resp: 445717

Ion	Ratio	Lower	Upper
95	100		
130	98.5	79.6	119.6
132	99.2	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356206R.D Vial: 35
Acq On : 19 Nov 2019 10:57 Operator: RLD-DGS
Sample : 166498,356206,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 11:18:28 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	867612	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	695578	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	367220	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	225629	0.994	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
45) SURR12DCAd4	7.25	102	52510	0.938	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			
61) SURRd8Tolule	9.67	98	849969	0.962	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
83) SURR4BrFBenz	13.23	95	324741	0.919	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.07	50	2643	N.D.		
4) VinylChlorid	2.23	62	1699	N.D.		
5) Bromomethane	2.65	94	5034	N.D.		
6) Chloroethane	2.79	64	2043	0.0314	mg/kg#	37
7) dichloroflmethane	3.05	67	1971	Below Cal #		1
8) Trichlorofma	3.10	101	1053	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.09	43	1096	N.D.		
16) Iodomethane	4.07	127	2408	0.1588	mg/kg#	80
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.50	41	1446	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	5517	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	1211	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.61	45	1058	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	26516	0.1134	mg/kg#	87
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.64	42	1098	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356206R.D Vial: 35
Acq On : 19 Nov 2019 10:57 Operator: RLD-DGS
Sample : 166498,356206,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 11:18:28 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	322315	1.5228 mg/kg	96
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.01	43	2561	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.95	75	1204	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	0.00	91	0	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.46	75	2444	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.89	146	1292	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.89	146	1292	N.D.	
98)	12dichlorobe	15.45	146	1163	N.D.	
99)	nButylbenzen	15.45	91	1549	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356206R.D Vial: 35
Acq On : 19 Nov 2019 10:57 Operator: RLD-DGS
Sample : 166498,356206,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 11:18:28 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

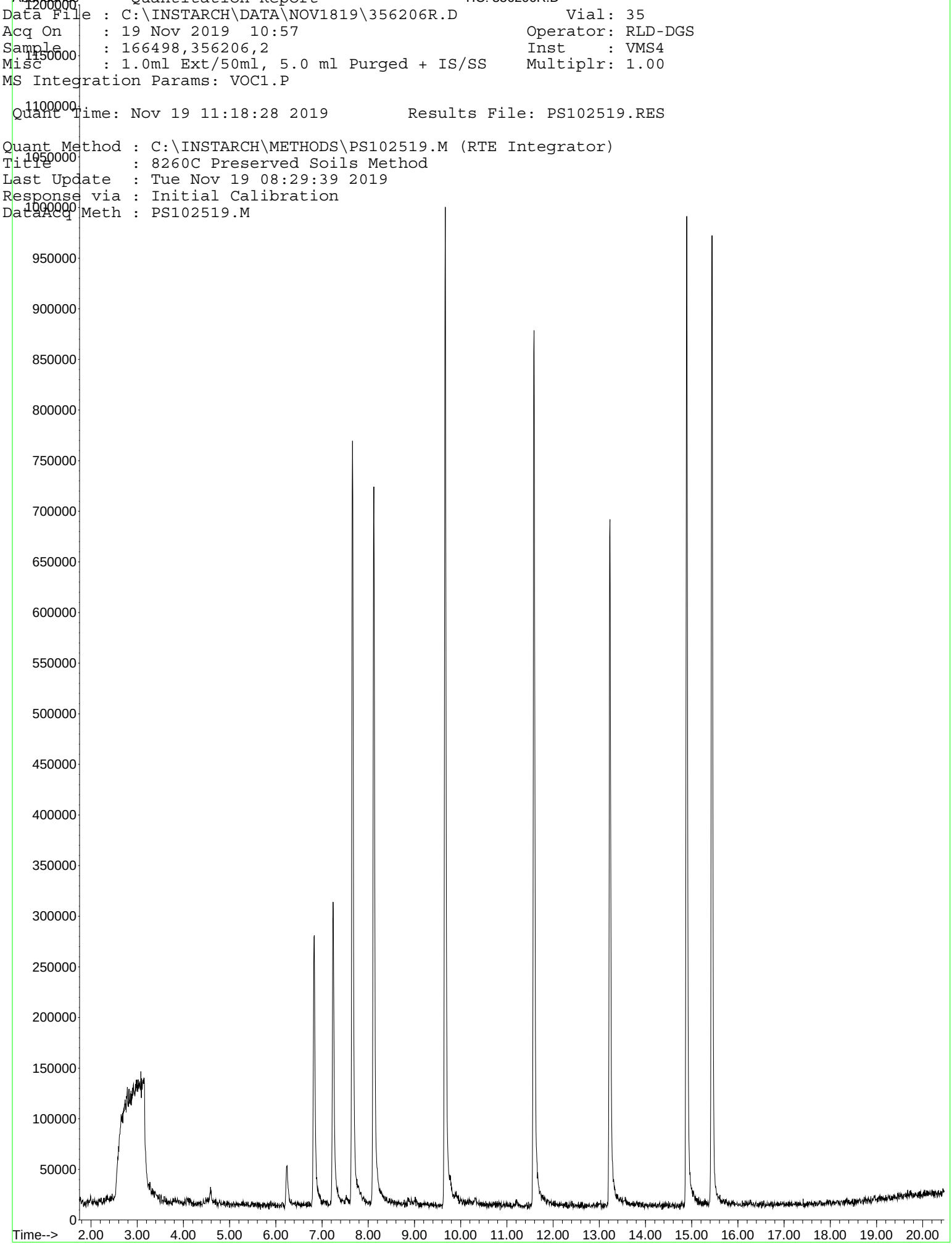
(#) = qualifier out of range (m) = manual integration

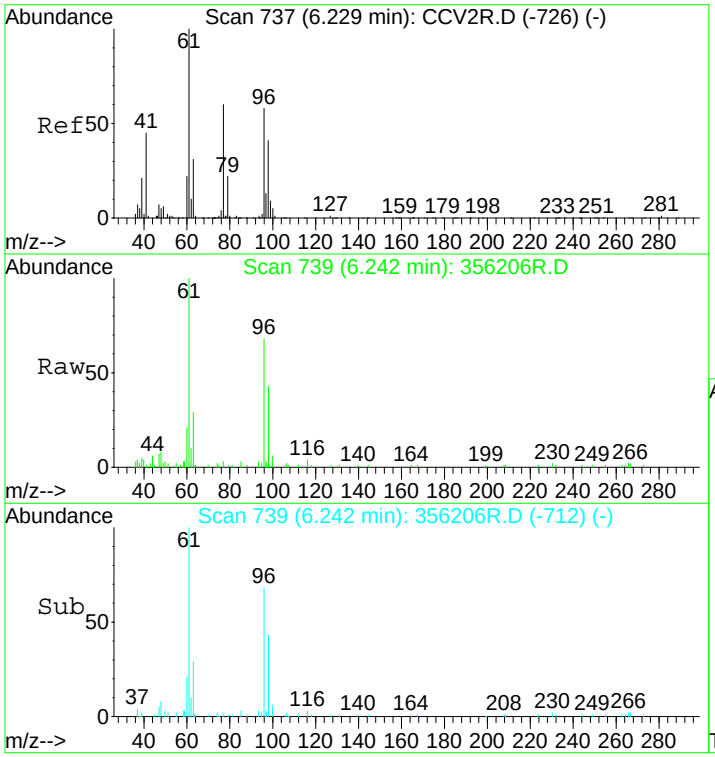
Abundance Quantitation Report TIC: 356206R.D

Data File : C:\INSTARCH\DATA\NOV1819\356206R.D Vial: 35
Acq On : 19 Nov 2019 10:57 Operator: RLD-DGS
Sample : 166498,356206,2 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 11:18:28 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

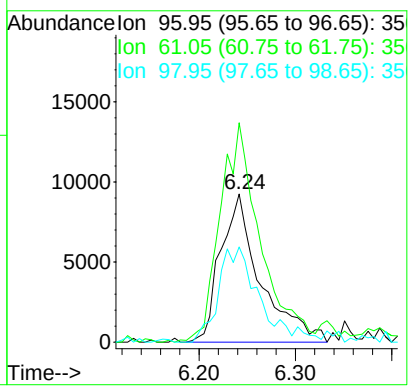


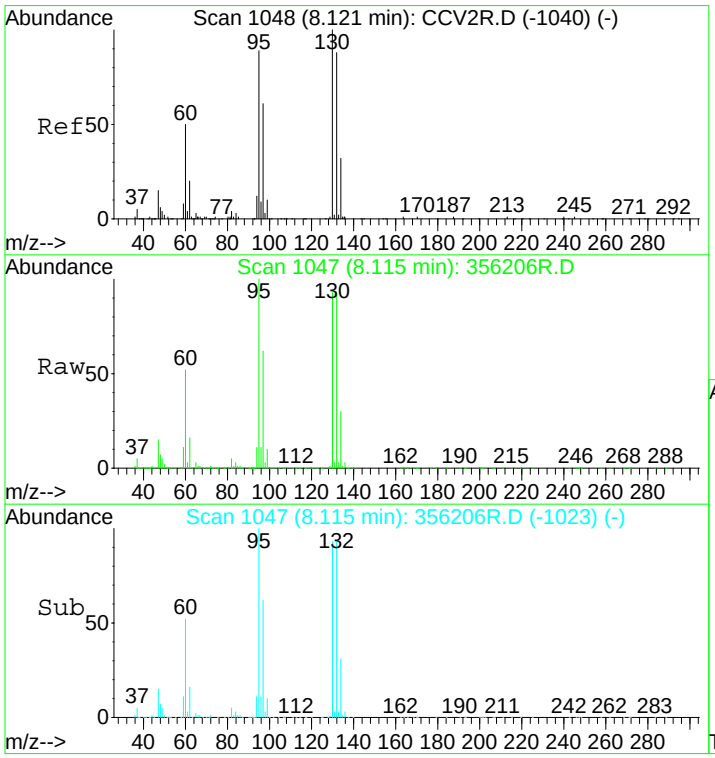


#32
c12dichlorte
Concen: 0.11 mg/kg
RT: 6.24 min Scan# 739
Delta R.T. 0.01 min
Lab File: 356206R.D
Acq: 19 Nov 2019 10:57

Tgt Ion: 96 Resp: 26516

Ion	Ratio	Lower	Upper
96	100		
61	149.3	151.9	191.9#
98	66.0	43.3	83.3

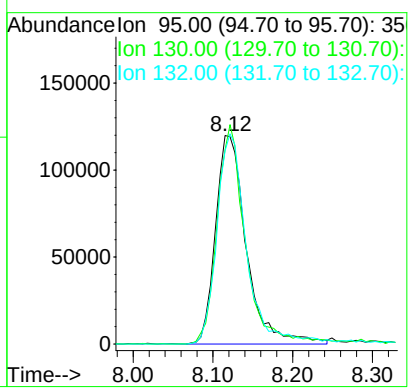




#49
trichloroete
Concen: 1.52 mg/kg
RT: 8.12 min Scan# 1047
Delta R.T. -0.01 min
Lab File: 356206R.D
Acq: 19 Nov 2019 10:57

Tgt Ion: 95 Resp: 322315

Ion	Ratio	Lower	Upper
95	100		
130	96.4	79.6	119.6
132	96.5	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356176R2.D Vial: 37
Acq On : 19 Nov 2019 11:55 Operator: RLD-DGS
Sample : 166497,356176,5 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 12:15:42 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	875610	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	710023	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	358909	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	223047	0.974	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
45) SURR12DCAd4	7.24	102	52279	0.926	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93 %			
61) SURRd8Tolule	9.67	98	872481	0.978	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	322592	0.934	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93 %			

Target Compounds						Qvalue
2) Dichlorodi	1.82	85	1102	N.D.		
3) Chloromethan	2.07	50	1203	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.65	94	3409	Below	Cal #	47
6) Chloroethane	2.80	64	1004	N.D.		
7) dichloroflmethane	3.08	67	2733	Below	Cal #	1
8) Trichlorofma	3.11	101	1040	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.12	43	1268	N.D.		
16) Iodomethane	4.11	127	1622	0.1479	mg/kg#	72
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.47	41	1357	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	5412	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	0.00	59	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.52	45	1114	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	3533	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.67	42	1129	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356176R2.D Vial: 37
Acq On : 19 Nov 2019 11:55 Operator: RLD-DGS
Sample : 166497,356176,5 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 12:15:42 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	508634	2.3811 mg/kg	98
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.93	75	1080	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	1678	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.23	55	1505	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.43	75	1917	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.88	146	1145	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.88	146	1145	N.D.	
98)	12dichlorobe	15.42	146	1190	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356176R2.D Vial: 37
Acq On : 19 Nov 2019 11:55 Operator: RLD-DGS
Sample : 166497,356176,5 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 12:15:42 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

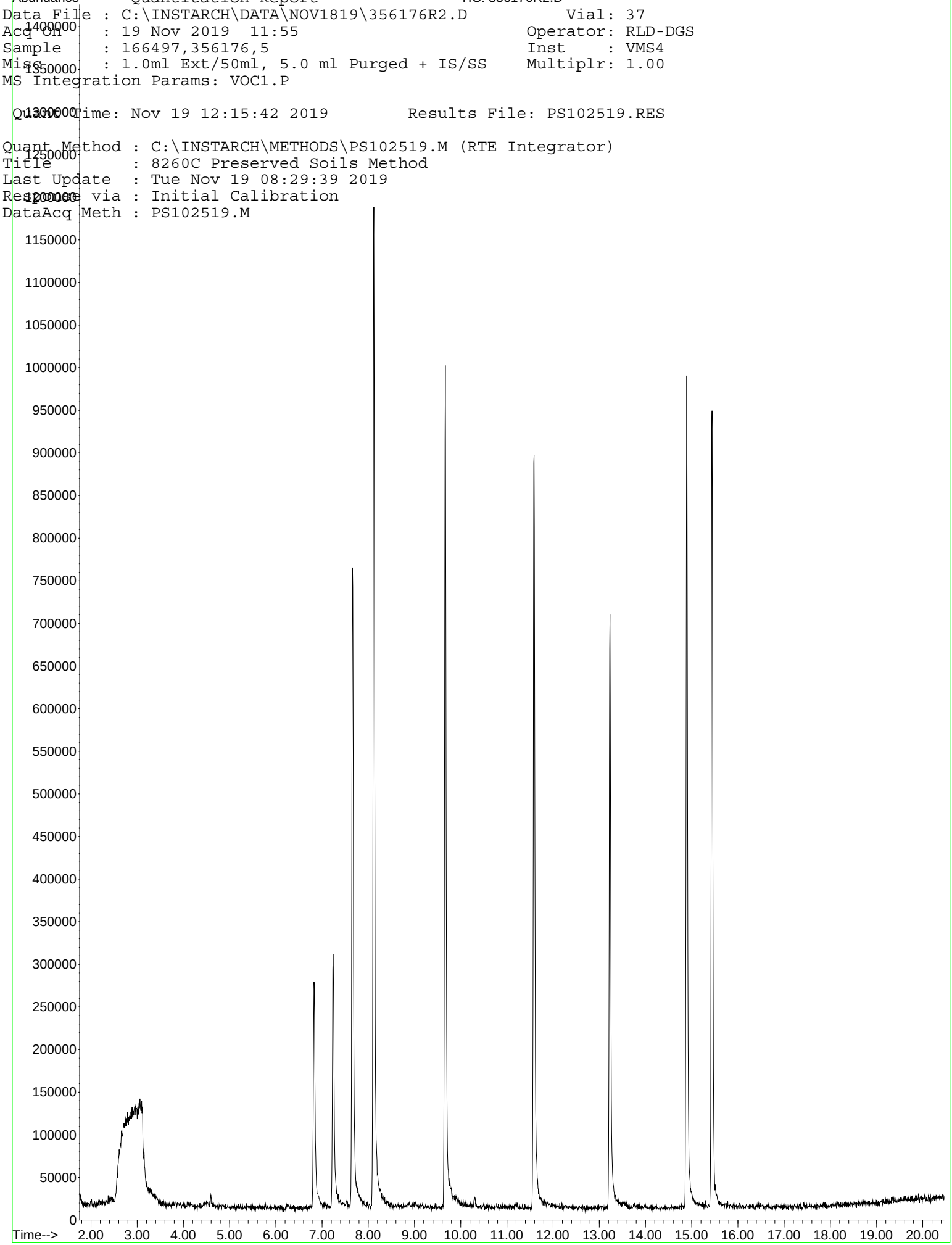
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

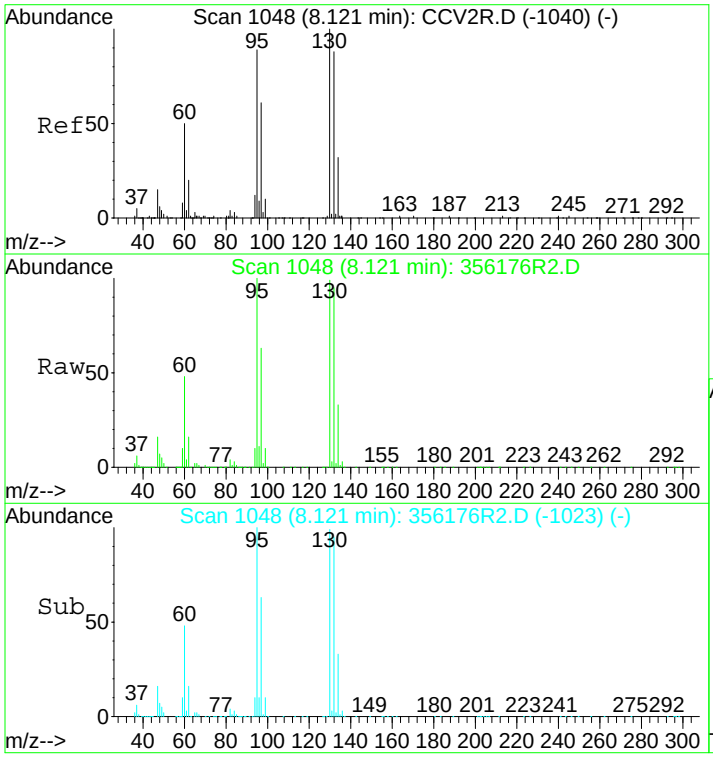
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1819\356176R2.D Vial: 37
Acq On : 19 Nov 2019 11:55 Operator: RLD-DGS
Sample : 166497,356176,5 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 12:15:42 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

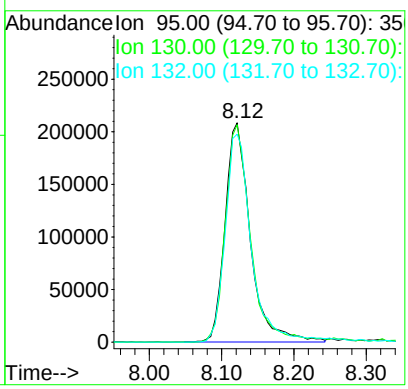




#49
trichloroete
Concen: 2.38 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 356176R2.D
Acq: 19 Nov 2019 11:55

Tgt Ion: 95 Resp: 508634

Ion	Ratio	Lower	Upper
95	100		
130	99.0	79.6	119.6
132	97.3	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356179R2.D Vial: 38
Acq On : 19 Nov 2019 12:23 Operator: RLD-DGS
Sample : 166497,356179, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 12:44:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	862648	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	704621	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.90	152	362358	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	215616	0.956	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
45) SURR12DCAd4	7.25	102	51246	0.921	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92 %			
61) SURRd8Tolule	9.67	98	849951	0.967	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
83) SURR4BrFBenz	13.23	95	329561	0.945	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.82	85	1786	N.D.		
3) Chloromethan	2.07	50	1480	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	4357	Below Cal #		70
6) Chloroethane	2.80	64	2194	0.0340	mg/kg	75
7) dichloroflmethane	3.09	67	1669	Below Cal #		1
8) Trichlorofma	3.08	101	1626	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.10	43	1785	N.D.		
16) Iodomethane	4.09	127	1168	0.1420	mg/kg#	3
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.46	41	1444	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	6521	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	2723	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356179R2.D Vial: 38
Acq On : 19 Nov 2019 12:23 Operator: RLD-DGS
Sample : 166497,356179, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 12:44:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	50124	0.2382 mg/kg	98
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.56	43	1172	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	1862	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.21	55	1777	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.45	75	1346	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.90	146	1130	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.90	146	1130	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.45	91	1671	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

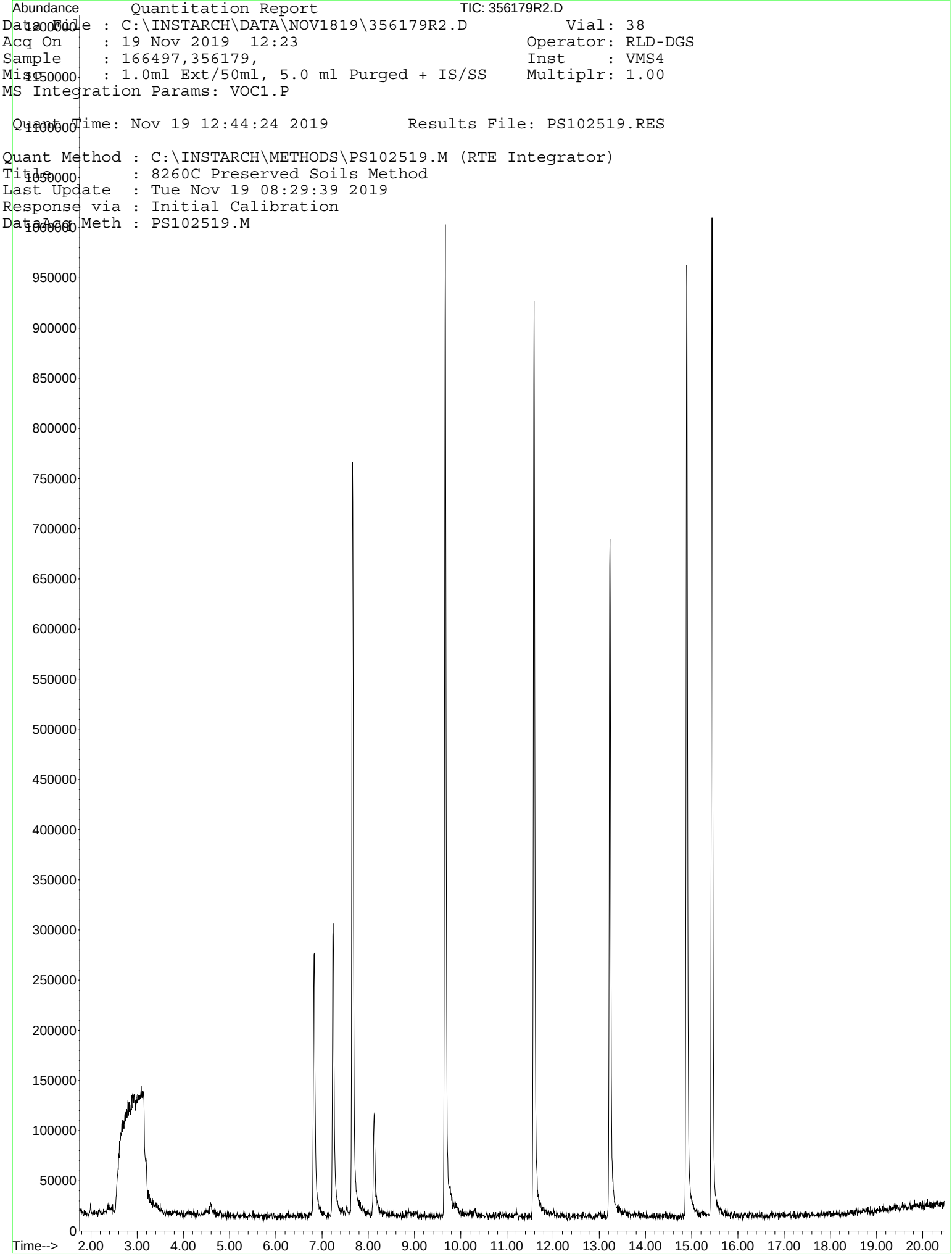
Quantitation Report
Data File : C:\INSTARCH\DATA\NOV1819\356179R2.D Vial: 38
Acq On : 19 Nov 2019 12:23 Operator: RLD-DGS
Sample : 166497,356179, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

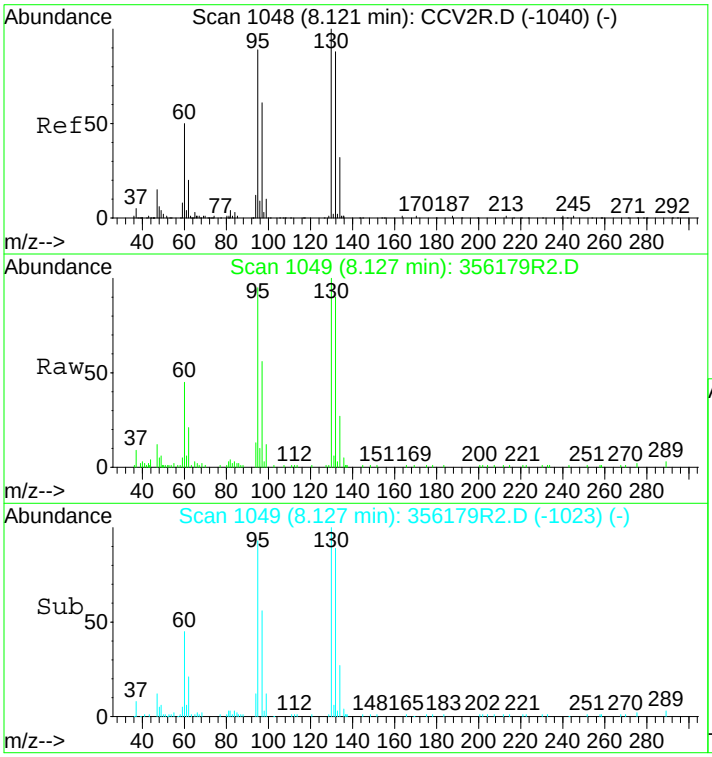
Quant Time: Nov 19 12:44:24 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

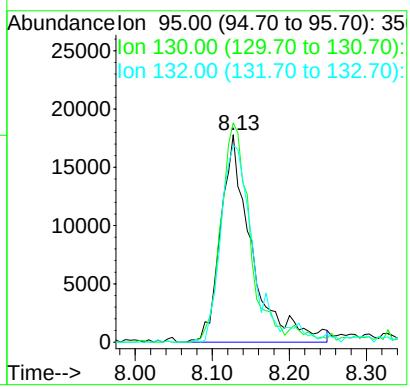

Abundance
Quantitation Report
TIC: 356179R2.D
Data File : C:\INSTARCH\DATA\NOV1819\356179R2.D Vial: 38
Acq On : 19 Nov 2019 12:23 Operator: RLD-DGS
Sample : 166497,356179, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P
Quant Time: Nov 19 12:44:24 2019 Results File: PS102519.RES
Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
1200000
1150000
1100000
1050000
1000000
950000
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00



#49
trichloroete
Concen: 0.24 mg/kg
RT: 8.13 min Scan# 1049
Delta R.T. 0.01 min
Lab File: 356179R2.D
Acq: 19 Nov 2019 12:23

Tgt Ion: 95 Resp: 50124

Ion	Ratio	Lower	Upper
95	100		
130	101.1	79.6	119.6
132	98.2	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356193R2.D Vial: 39
Acq On : 19 Nov 2019 12:52 Operator: RLD-DGS
Sample : 166498,356193,10 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 13:13:00 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	862974	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	699673	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	366647	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	220837	0.979	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
45) SURR12DCAd4	7.24	102	49782	0.894	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 89 %			
61) SURRd8Tolule	9.67	98	855574	0.973	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
83) SURR4BrFBenz	13.23	95	328927	0.932	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93 %			

Target Compounds						Qvalue
2) Dichlorodi	1.81	85	1414	N.D.		
3) Chloromethan	2.06	50	1930	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	3443	Below	Cal	83
6) Chloroethane	2.69	64	1348	N.D.		
7) dichloroflmethane	3.11	67	1657	Below	Cal #	38
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.11	43	1180	N.D.		
16) Iodomethane	4.09	127	1244	0.1431	mg/kg#	72
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.29	41	1141	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	6735	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	0.00	59	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	4165	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356193R2.D Vial: 39
Acq On : 19 Nov 2019 12:52 Operator: RLD-DGS
Sample : 166498,356193,10 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 13:13:00 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.31	78	1091	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	302382	1.4363 mg/kg	98
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	8.98	43	1293	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.93	75	1704	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.59	91	1863	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.43	75	1114	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.45	91	1590	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356193R2.D Vial: 39
Acq On : 19 Nov 2019 12:52 Operator: RLD-DGS
Sample : 166498,356193,10 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 13:13:00 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

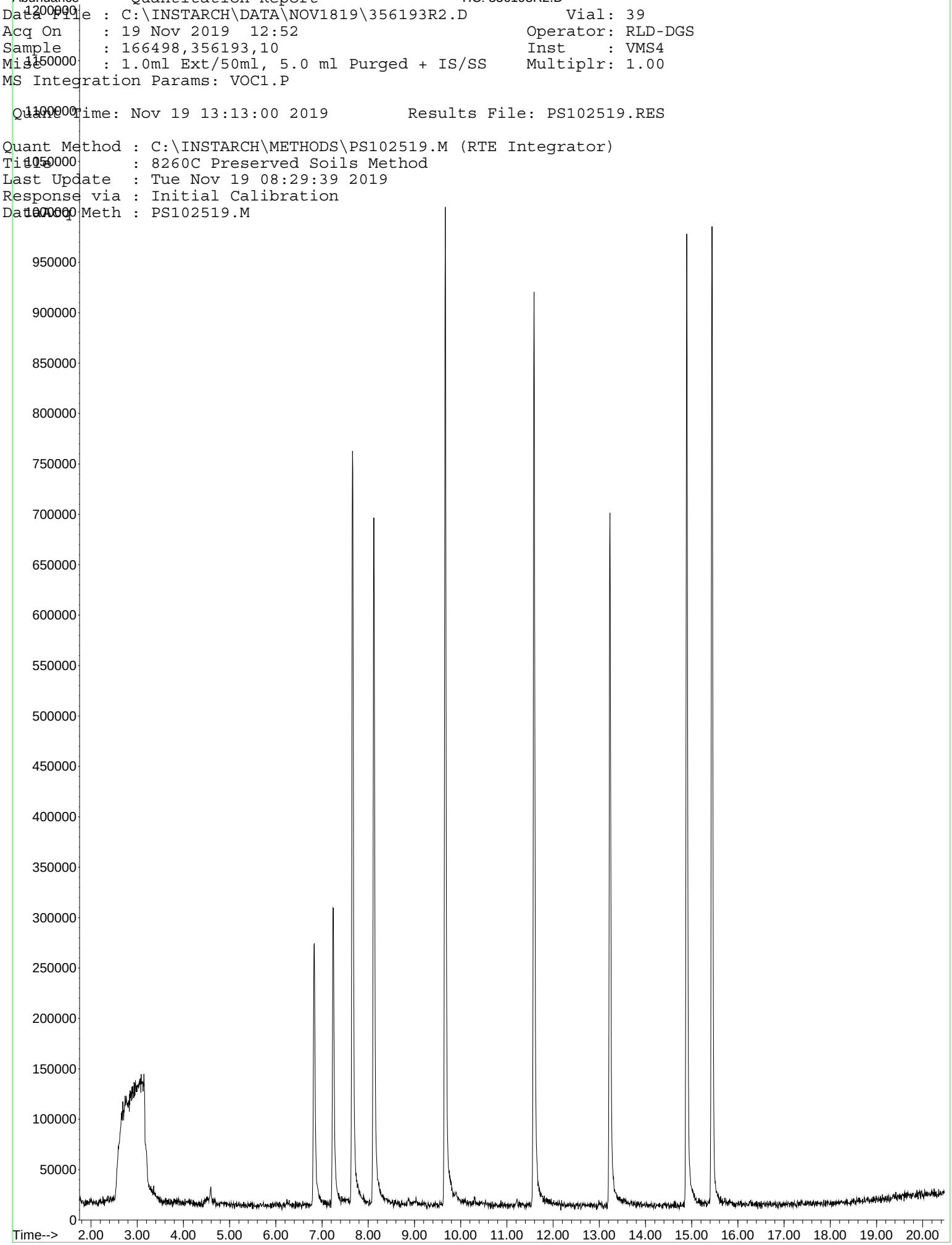
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

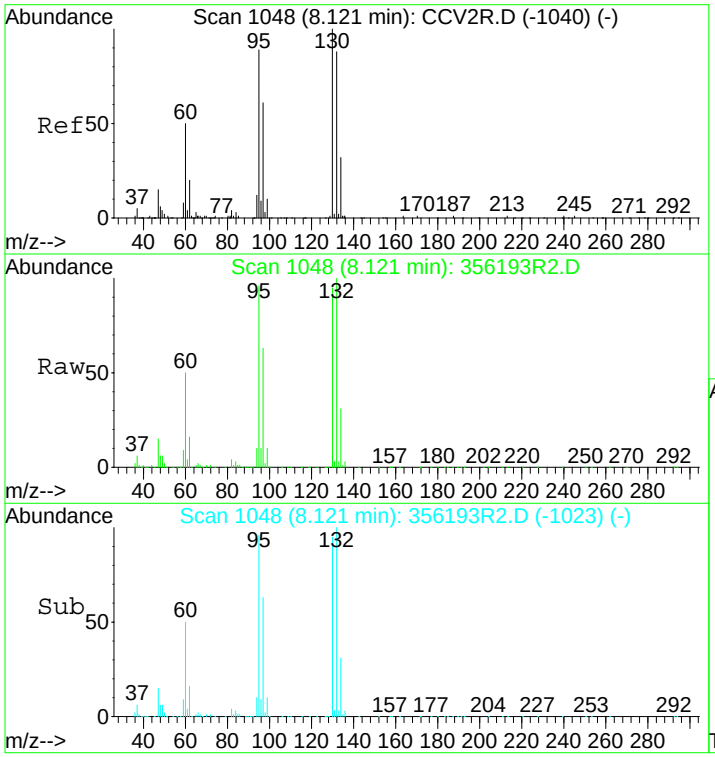
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1819\356193R2.D Vial: 39
Acq On : 19 Nov 2019 12:52 Operator: RLD-DGS
Sample : 166498,356193,10 Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 13:13:00 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

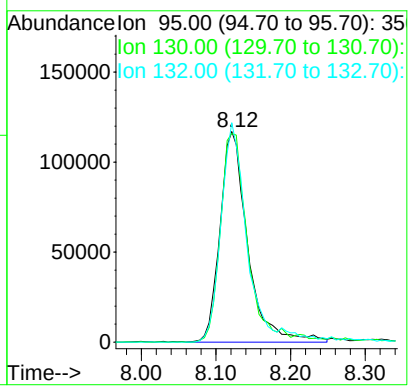




#49
trichloroete
Concen: 1.44 mg/kg
RT: 8.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 356193R2.D
Acq: 19 Nov 2019 12:52

Tgt Ion: 95 Resp: 302382

Ion	Ratio	Lower	Upper
95	100		
130	98.4	79.6	119.6
132	98.4	80.5	120.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356205R2.D Vial: 40
Acq On : 19 Nov 2019 13:21 Operator: RLD-DGS
Sample : 166498,356205, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 13:41:39 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	883531	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	716470	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	366284	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	227071	0.983	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
45) SURR12DCAd4	7.24	102	53658	0.942	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			
61) SURRd8Tolule	9.67	98	869697	0.966	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
83) SURR4BrFBenz	13.23	95	334029	0.948	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.04	50	1135	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.68	94	3394	Below Cal	#	78
6) Chloroethane	2.77	64	1727	N.D.		
7) dichloroflmethane	3.15	67	1093	Below Cal	#	38
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.14	43	2118	N.D.		
16) Iodomethane	4.11	127	1209	0.1422 mg/kg	#	17
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.42	41	1194	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	6520	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.78	59	2336	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.30	57	1085	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.56	45	1916	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	27283	0.1146 mg/kg		90
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.66	42	1138	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356205R2.D Vial: 40
Acq On : 19 Nov 2019 13:21 Operator: RLD-DGS
Sample : 166498,356205, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 13:41:39 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	874391	4.0566 mg/kg	98
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	8.90	43	1444	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.95	75	1373	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.59	91	1599	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.24	55	1049	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.49	75	2499	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	15.44	146	1202	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356205R2.D Vial: 40
Acq On : 19 Nov 2019 13:21 Operator: RLD-DGS
Sample : 166498,356205, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 13:41:39 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102)	124Trichlobe	0.00	180	0	N.D.	
103)	Hexachlorobu	0.00	225	0	N.D.	
104)	Naphthalene	0.00	128	0	N.D.	
105)	123Trichlben	0.00	180	0	N.D.	

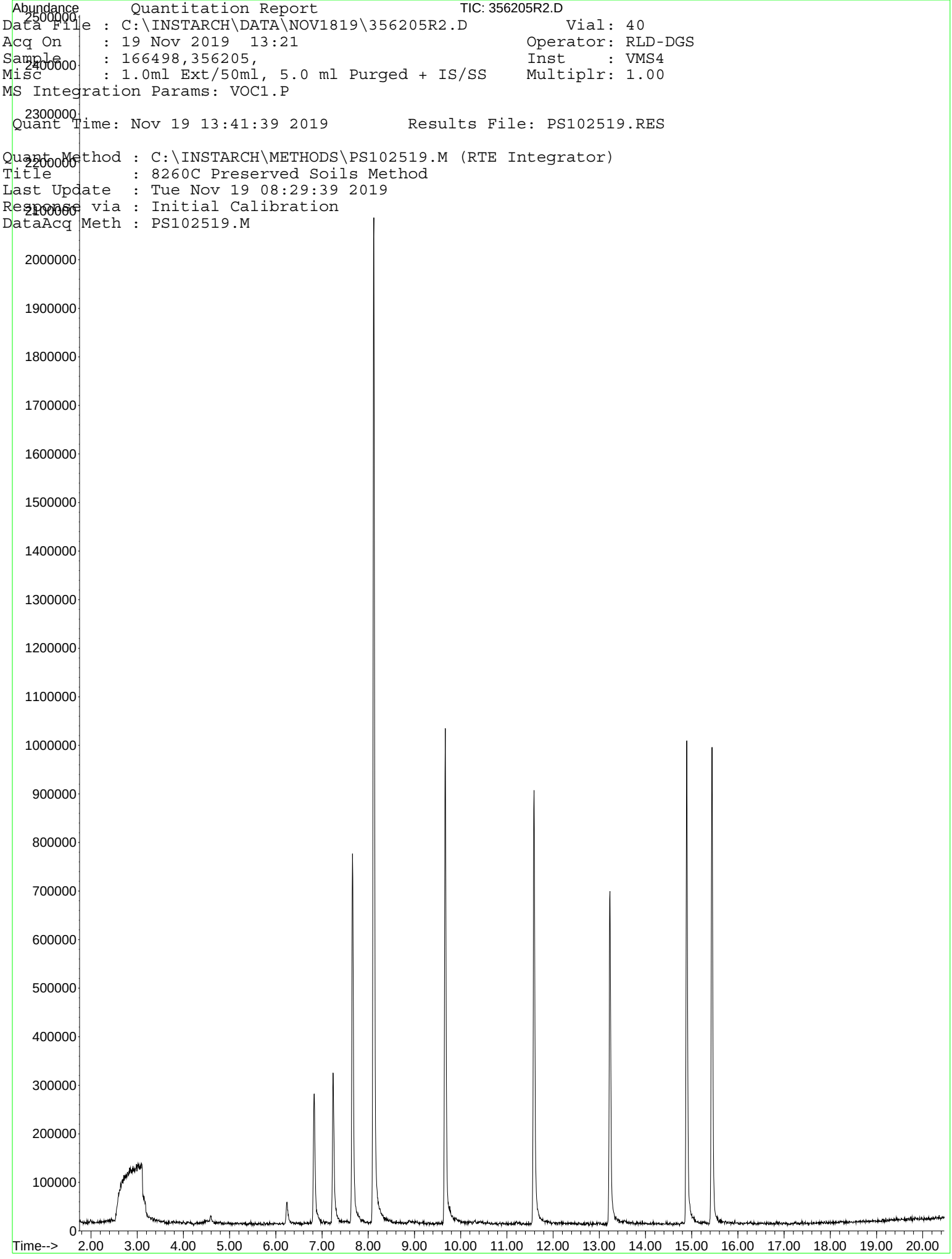
(#) = qualifier out of range (m) = manual integration

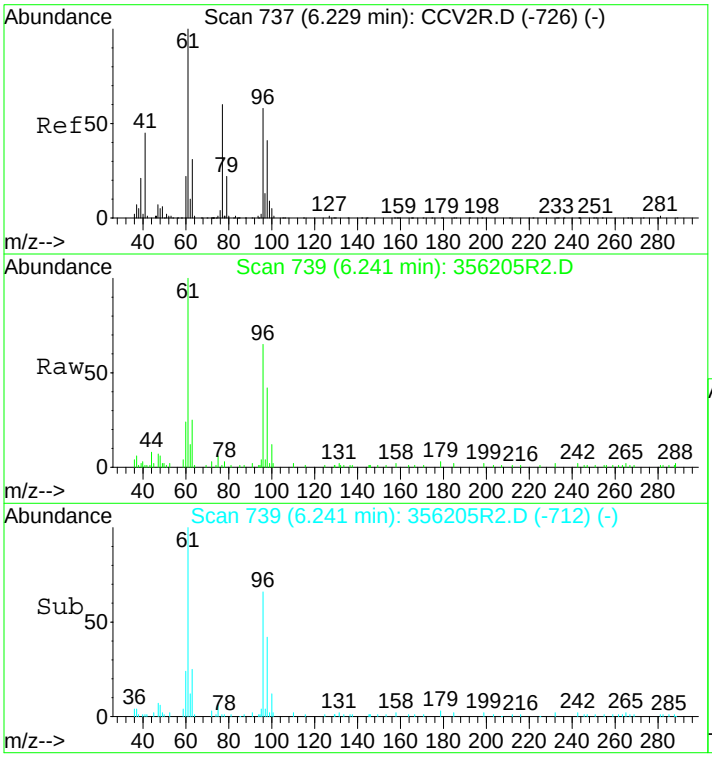
Abundance Quantitation Report TIC: 356205R2.D

Data File : C:\INSTARCH\DATA\NOV1819\356205R2.D Vial: 40
Acq On : 19 Nov 2019 13:21 Operator: RLD-DGS
Sample : 166498,356205, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 13:41:39 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

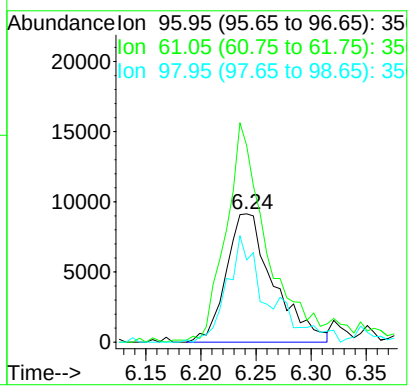




#32
c12dichlorte
Concen: 0.11 mg/kg
RT: 6.24 min Scan# 739
Delta R.T. 0.01 min
Lab File: 356205R2.D
Acq: 19 Nov 2019 13:21

Tgt Ion: 96 Resp: 27283

Ion	Ratio	Lower	Upper
96	100		
61	158.3	151.9	191.9
98	72.0	43.3	83.3



E-1014

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356191R2.D Vial: 41
Acq On : 19 Nov 2019 13:49 Operator: RLD-DGS
Sample : 166498,356191, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 14:10:18 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	867308	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	710582	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	365532	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	225593	0.995	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	52687	0.942	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			
61) SURRd8Tolule	9.67	98	871054	0.986	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
83) SURR4BrFBenz	13.23	95	342323	0.973	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			

Target Compounds					Qvalue
2) Dichlorodi	1.81	85	1170	N.D.	
3) Chloromethan	2.06	50	2258	N.D.	
4) VinylChlorid	2.22	62	1142	N.D.	
5) Bromomethane	2.67	94	4443	N.D.	
6) Chloroethane	2.80	64	1238	N.D.	
7) dichloroflmethane	3.08	67	1068	Below Cal # 1	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.20	43	1370	N.D.	
16) Iodomethane	0.00	127	0	N.D.	
17) Carbon Dislf	0.00	76	0	N.D.	
18) allylchloride	4.43	41	1198	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	5342	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.79	59	1431	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	6.25	96	18786	0.0804 mg/kg#	81
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356191R2.D Vial: 41
Acq On : 19 Nov 2019 13:49 Operator: RLD-DGS
Sample : 166498,356191, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 14:10:18 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	1307971	6.1816 mg/kg	97
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	9.91	75	3015	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	1903	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.22	55	1545	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.53	75	1109	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.90	146	1051	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.90	146	1087	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.43	91	1851	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\356191R2.D Vial: 41
Acq On : 19 Nov 2019 13:49 Operator: RLD-DGS
Sample : 166498,356191, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 14:10:18 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

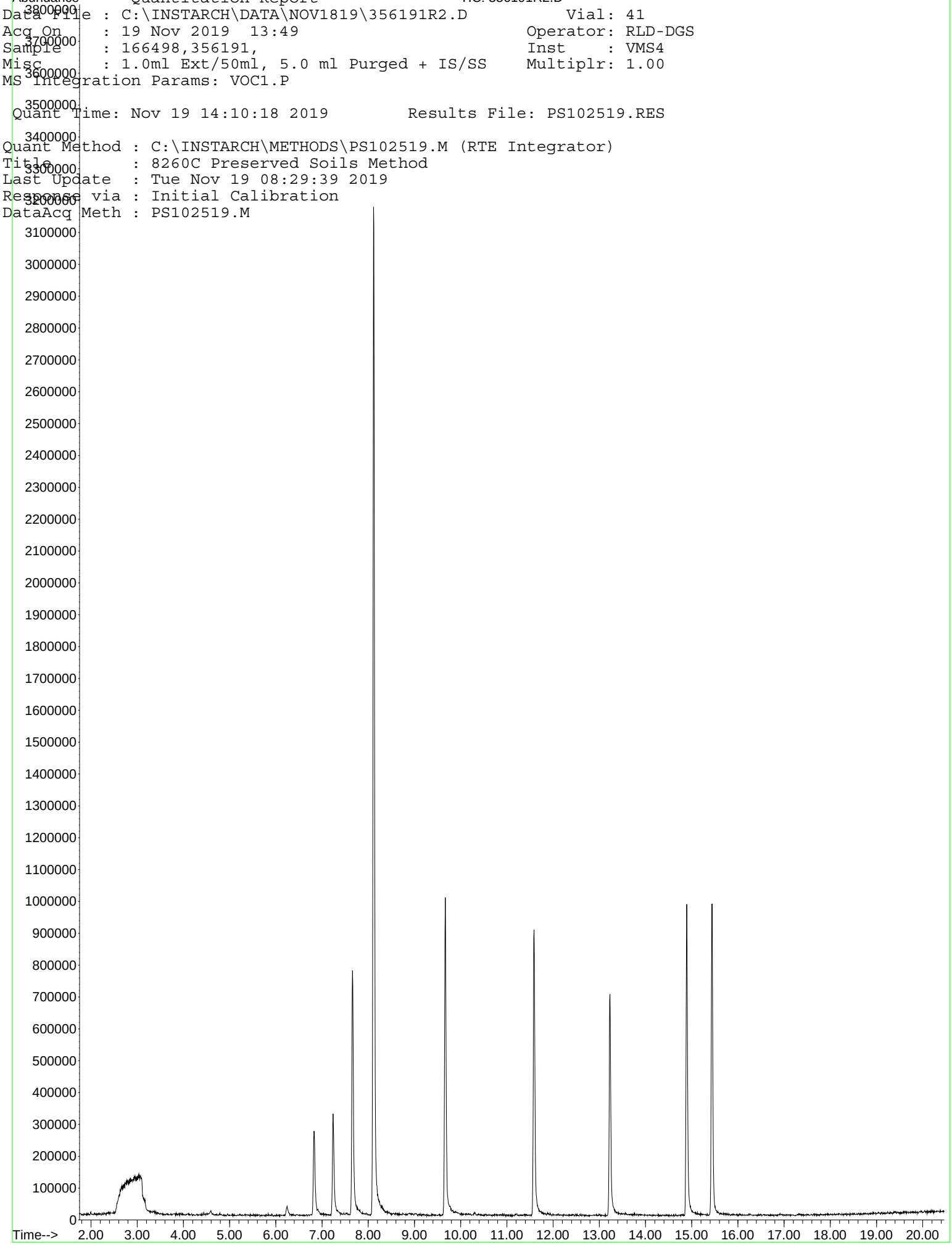
(#) = qualifier out of range (m) = manual integration

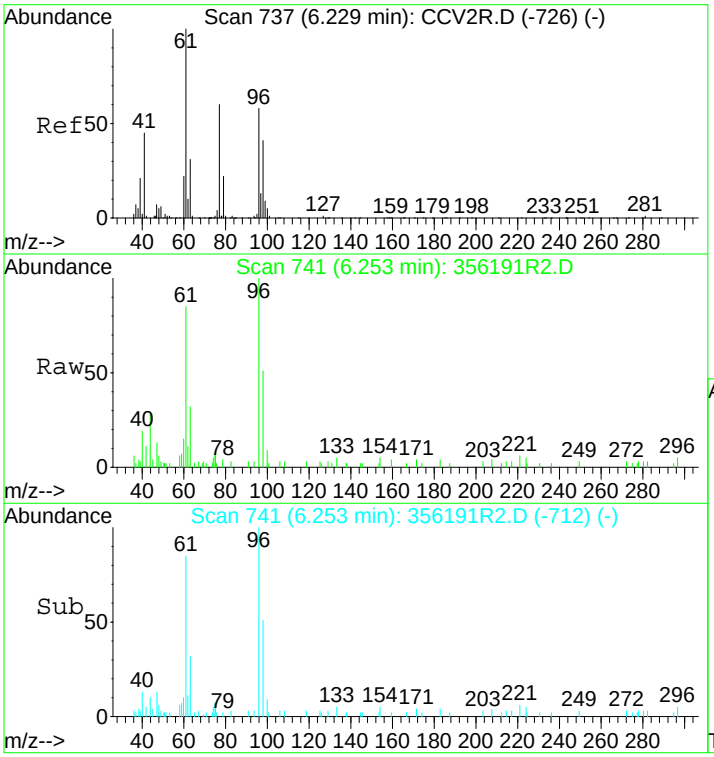
Abundance Quantitation Report TIC: 356191R2.D

Data File : C:\INSTARCH\DATA\NOV1819\356191R2.D Vial: 41
Acq On : 19 Nov 2019 13:49 Operator: RLD-DGS
Sample : 166498,356191, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 14:10:18 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

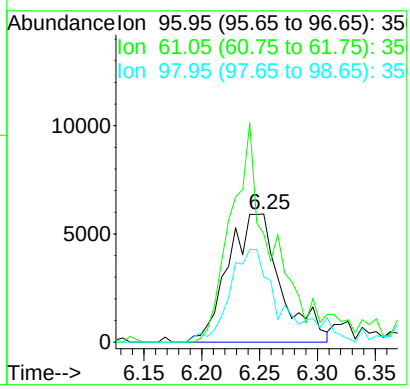




#32
c12dichlorte
Concen: 0.08 mg/kg
RT: 6.25 min Scan# 741
Delta R.T. 0.02 min
Lab File: 356191R2.D
Acq: 19 Nov 2019 13:49

Tgt Ion: 96 Resp: 18786

Ion	Ratio	Lower	Upper
96	100		
61	139.6	151.9	191.9#
98	70.2	43.3	83.3



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356164.D Vial: 5
Acq On : 14 Nov 2019 14:44 Operator: RLD-DGS
Sample : 166500,356164, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:10 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1035761	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	788645	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	419195	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	257730	19.430	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 97 %			
45) SURR12DCAd4	7.20	102	72278	19.750	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 99 %			
61) SURRd8Tolule	9.63	98	996154	19.745	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	382828	20.193	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.09	50	2279	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.93	64	2062	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.04	43	11137	4.6618	ug/L	93
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.20	76	2490	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	4480	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356164.D Vial: 5
Acq On : 14 Nov 2019 14:44 Operator: RLD-DGS
Sample : 166500,356164, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:10 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	0.00	91	0	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	14.82	119	16813	0.3617 ug/L #	88
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	15.38	146	2004	N.D.	
99)	nButylbenzen	15.37	91	3446	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356164.D Vial: 5
Acq On : 14 Nov 2019 14:44 Operator: RLD-DGS
Sample : 166500,356164, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:10 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

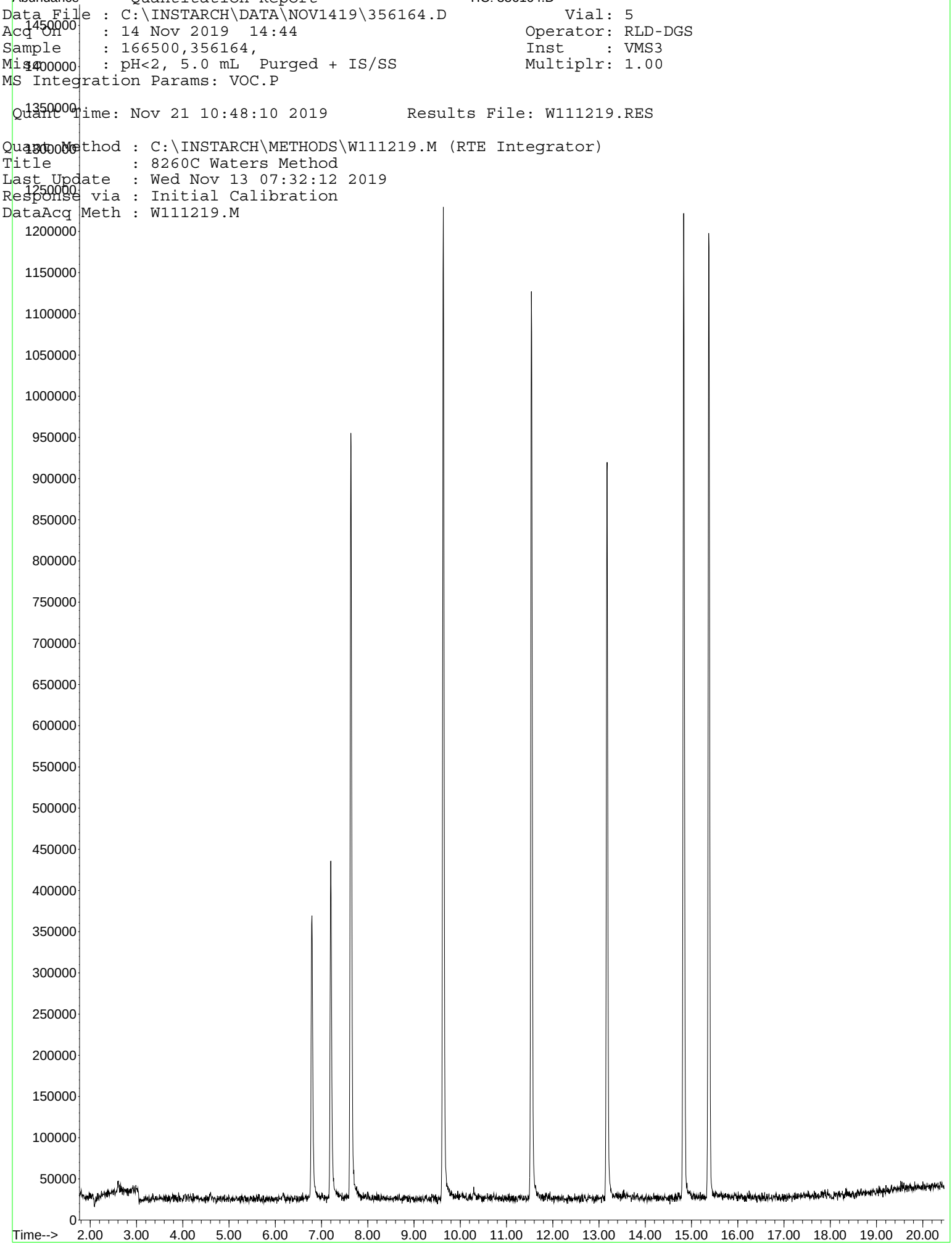
Quantitation Report

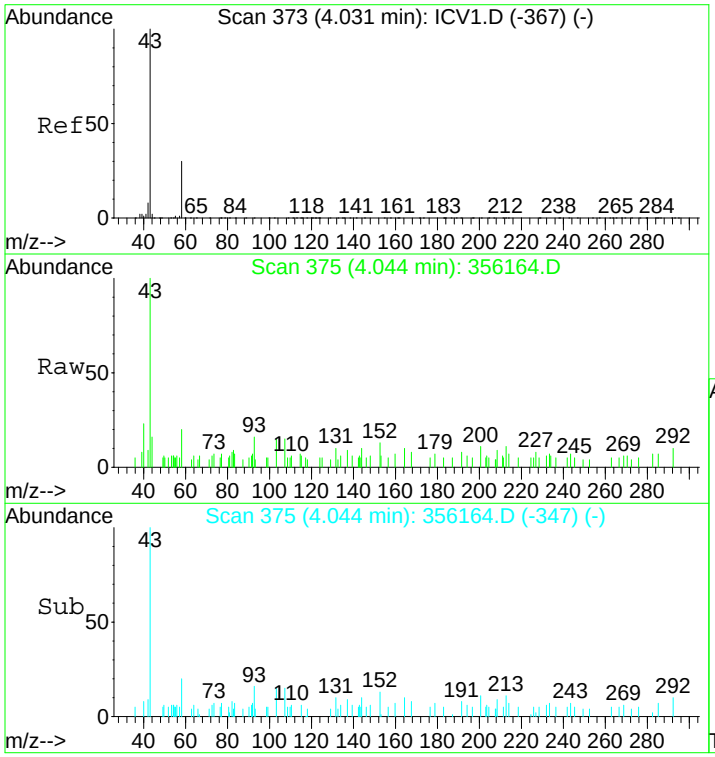
TIC: 356164.D

Data File : C:\INSTARCH\DATA\NOV1419\356164.D Vial: 5
Acq On : 14 Nov 2019 14:44 Operator: RLD-DGS
Sample : 166500,356164, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:10 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

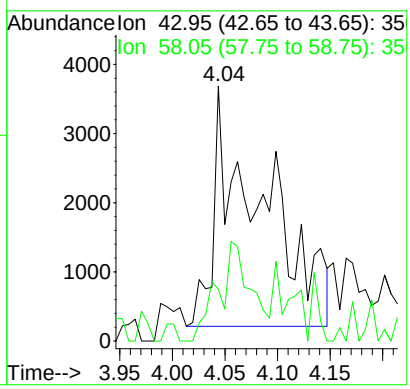


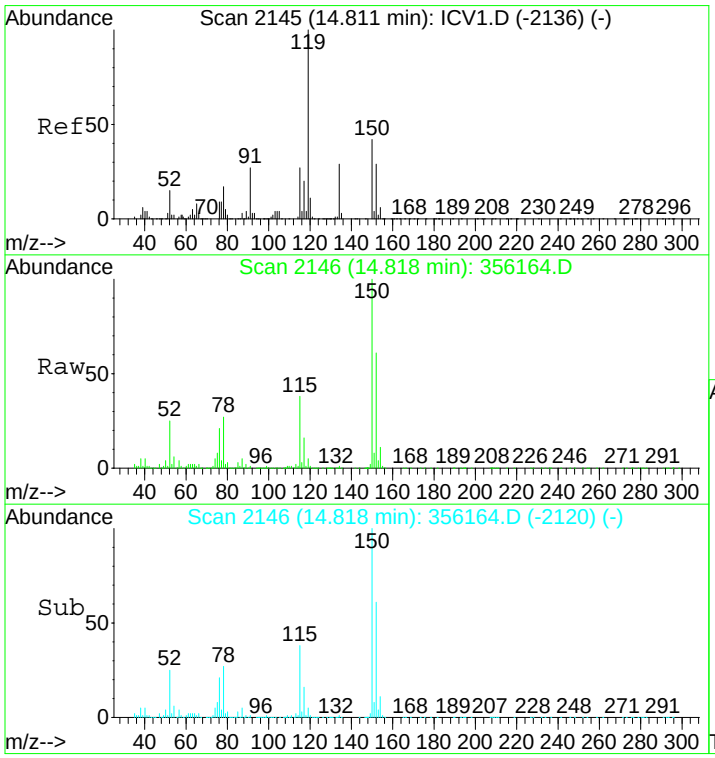


#15
Acetone
Concen: 4.66 ug/L
RT: 4.04 min Scan# 375
Delta R.T. 0.02 min
Lab File: 356164.D
Acq: 14 Nov 2019 14:44

Tgt Ion: 43 Resp: 11137

Ion	Ratio	Lower	Upper
43	100		
58	27.9	11.8	51.8

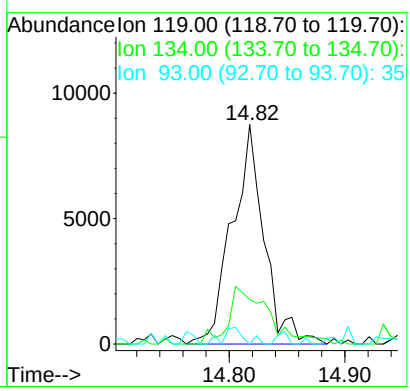




#96
pIsopropylto
Concen: 0.36 ug/L
RT: 14.82 min Scan# 2146
Delta R.T. 0.01 min
Lab File: 356164.D
Acq: 14 Nov 2019 14:44

Tgt Ion:119 Resp: 16813

Ion	Ratio	Lower	Upper
119	100		
134	33.5	6.9	46.9
93	0.0	0.0	22.6



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356190.D Vial: 6
Acq On : 14 Nov 2019 15:14 Operator: RLD-DGS
Sample : 166500,356190, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:15 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1058496	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	812251	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	427977	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	267139	19.707	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.21	102	74910	20.030	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 100 %			
61) SURRd8Tolule	9.63	98	1004692	19.487	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 97 %			
83) SURR4BrFBenz	13.18	95	387166	20.003	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.91	64	2091	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.04	43	15271	6.2550	ug/L	91
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	0.00	84	0	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356190.D Vial: 6
Acq On : 14 Nov 2019 15:14 Operator: RLD-DGS
Sample : 166500,356190, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:15 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.29	78	2067	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	9.74	92	2164	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.54	91	2597	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.36	75	2710	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	14.34	105	2366	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	14.81	119	4847	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.38	91	2146	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356190.D Vial: 6
Acq On : 14 Nov 2019 15:14 Operator: RLD-DGS
Sample : 166500,356190, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:15 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

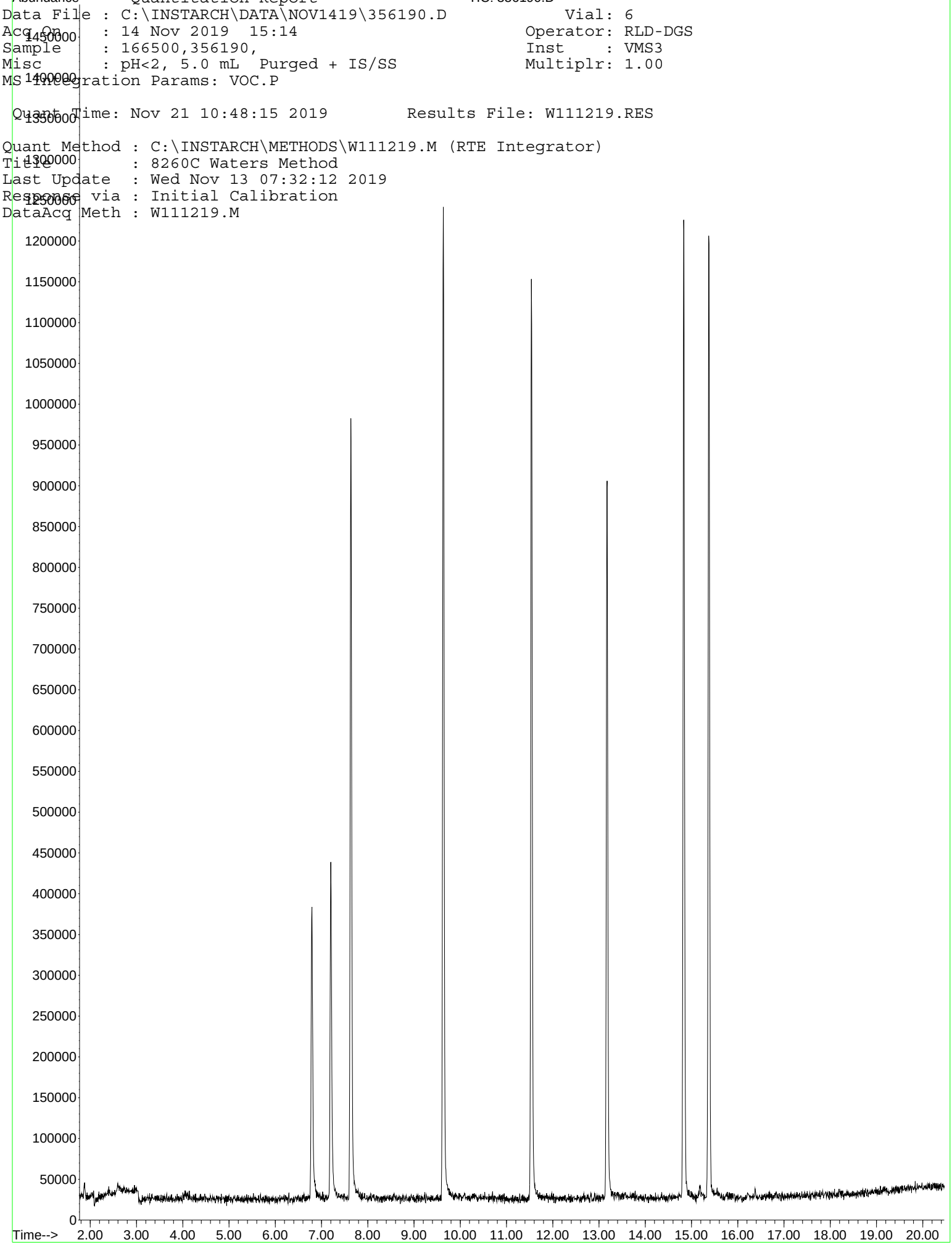
(#) = qualifier out of range (m) = manual integration

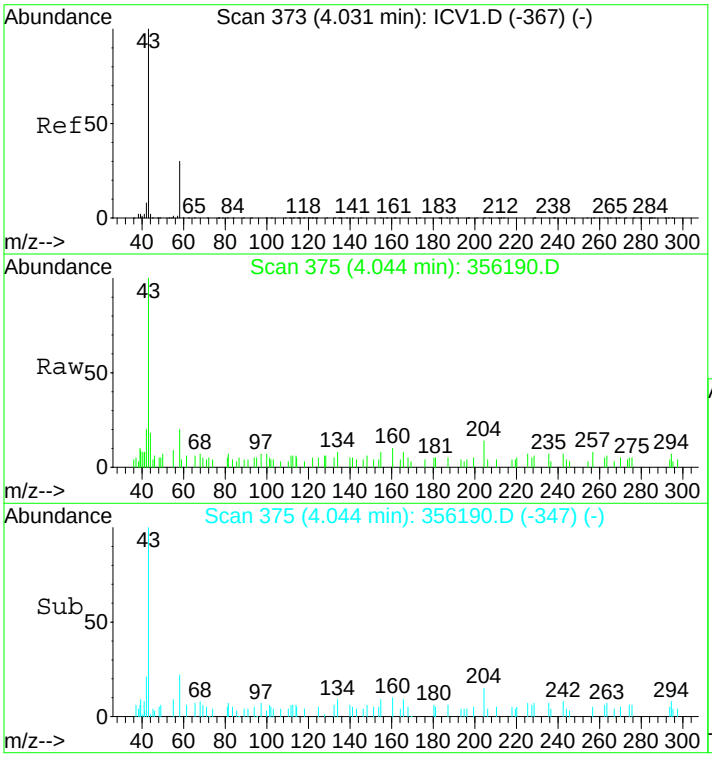
Quantitation Report (TIC: 356190.D)

Data File : C:\INSTARCH\DATA\NOV1419\356190.D Vial: 6
Acq On : 14 Nov 2019 15:14 Operator: RLD-DGS
Sample : 166500,356190, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:15 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

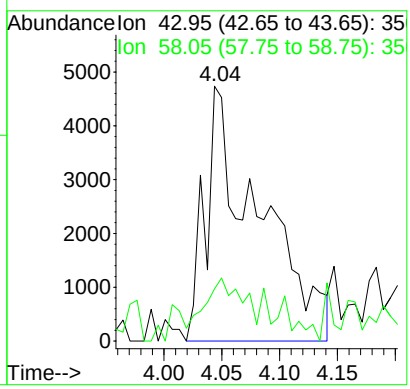




#15
Acetone
Concen: 6.25 ug/L
RT: 4.04 min Scan# 375
Delta R.T. 0.02 min
Lab File: 356190.D
Acq: 14 Nov 2019 15:14

Tgt Ion: 43 Resp: 15271

Ion	Ratio	Lower	Upper
43	100		
58	26.9	11.8	51.8



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356220.D Vial: 7
Acq On : 14 Nov 2019 15:44 Operator: RLD-DGS
Sample : 166500,356220, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:03 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1035045	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	802035	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	415128	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	261645	19.739	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	72059	19.704	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 99 %			
61) SURRd8Tolule	9.63	98	1003251	19.899	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	386069	20.564	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 103 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.09	50	3185	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.06	43	19923	8.3453	ug/L	91
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.22	76	2371	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	0.00	84	0	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.65	42	2782	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356220.D Vial: 7
Acq On : 14 Nov 2019 15:44 Operator: RLD-DGS
Sample : 166500,356220, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:03 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.40	43	25685	2.6323 ug/L #	39
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.56	91	2290	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.07	55	2197	8.6100 ug/L #	36
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.37	91	2116	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356220.D Vial: 7
Acq On : 14 Nov 2019 15:44 Operator: RLD-DGS
Sample : 166500,356220, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:03 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

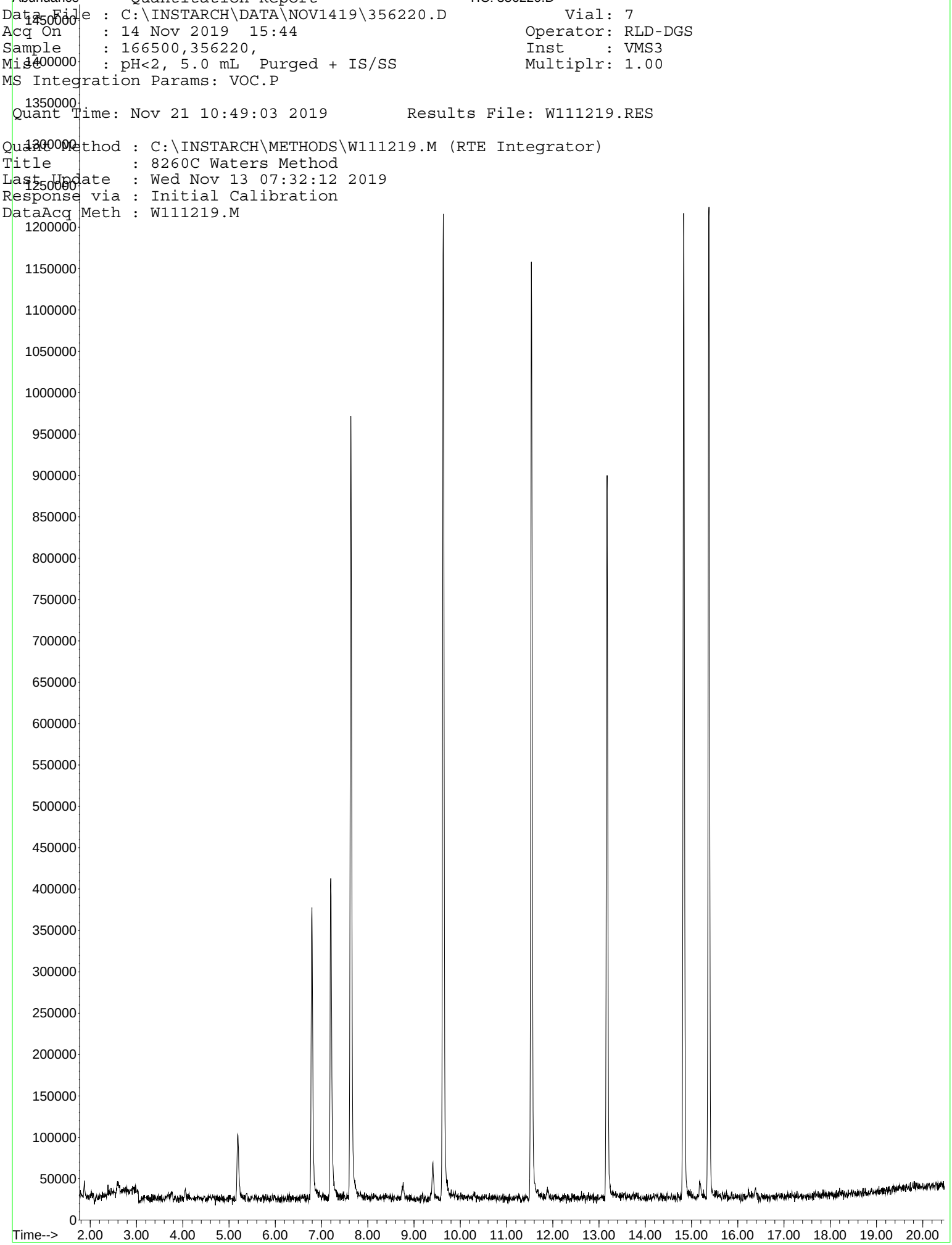
(#) = qualifier out of range (m) = manual integration

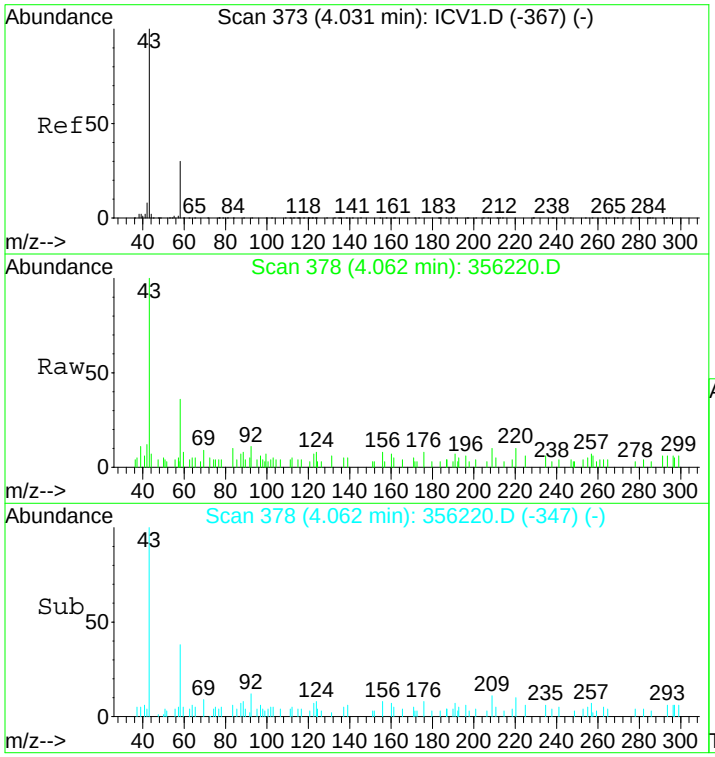
Abundance Quantitation Report TIC: 356220.D

Data File : C:\INSTARCH\DATA\NOV1419\356220.D Vial: 7
Acq On : 14 Nov 2019 15:44 Operator: RLD-DGS
Sample : 166500,356220, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:03 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

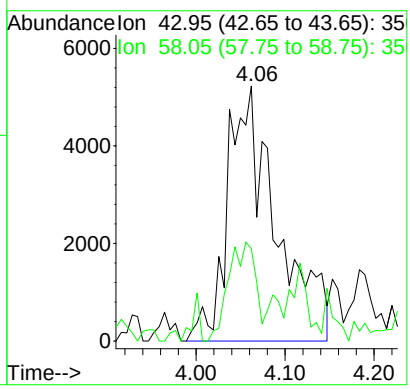


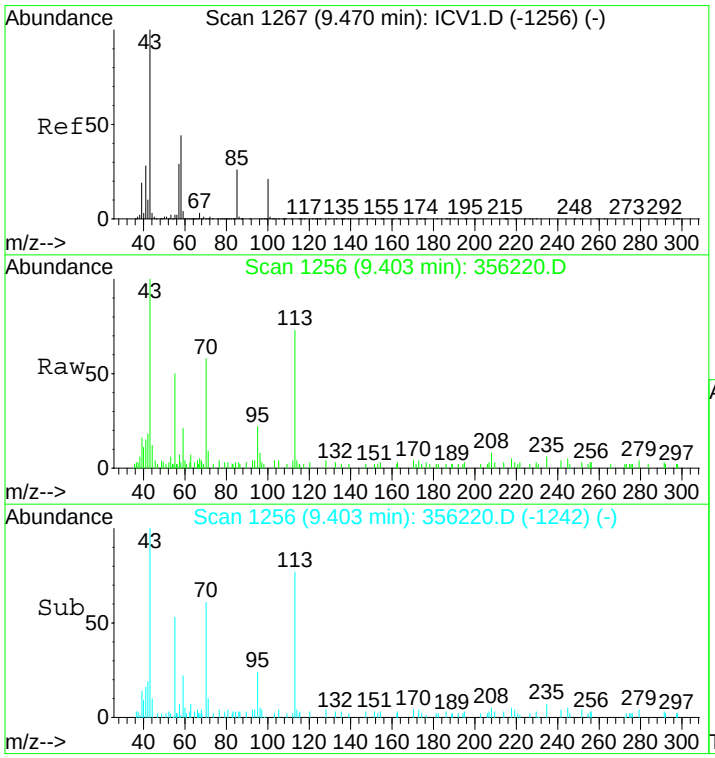


#15
Acetone
Concen: 8.35 ug/L
RT: 4.06 min Scan# 378
Delta R.T. 0.04 min
Lab File: 356220.D
Acq: 14 Nov 2019 15:44

Tgt Ion: 43 Resp: 19923

Ion	Ratio	Lower	Upper
43	100		
58	26.8	11.8	51.8

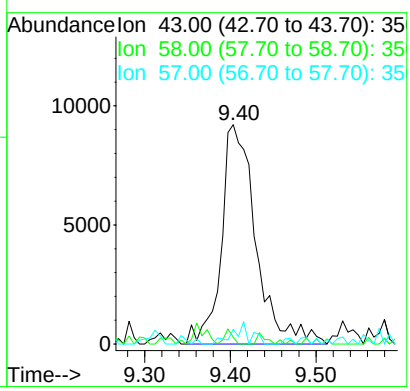




#60
4Meth2Pentan
Concen: 2.63 ug/L
RT: 9.40 min Scan# 1256
Delta R.T. -0.07 min
Lab File: 356220.D
Acq: 14 Nov 2019 15:44

Tgt Ion: 43 Resp: 25685

Ion	Ratio	Lower	Upper
43	100		
58	0.0	22.7	62.7#
57	0.0	7.2	47.2#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356223.D Vial: 8
Acq On : 14 Nov 2019 16:14 Operator: RLD-DGS
Sample : 166500,356223, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:10 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1056058	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	808820	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	421132	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	268099	19.824	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	71970	19.288	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 96 %			
61) SURRd8Tolule	9.63	98	1009735	19.630	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 98 %			
83) SURR4BrFBenz	13.17	95	393554	20.663	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 103 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.88	64	3355	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.06	43	14231	5.8424	ug/L	87
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	0.00	84	0	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356223.D Vial: 8
Acq On : 14 Nov 2019 16:14 Operator: RLD-DGS
Sample : 166500,356223, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:10 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.53	91	2624	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.07	55	2070	8.0443 ug/L #	36
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	14.82	119	4157	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.37	91	2093	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356223.D Vial: 8
Acq On : 14 Nov 2019 16:14 Operator: RLD-DGS
Sample : 166500,356223, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:10 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

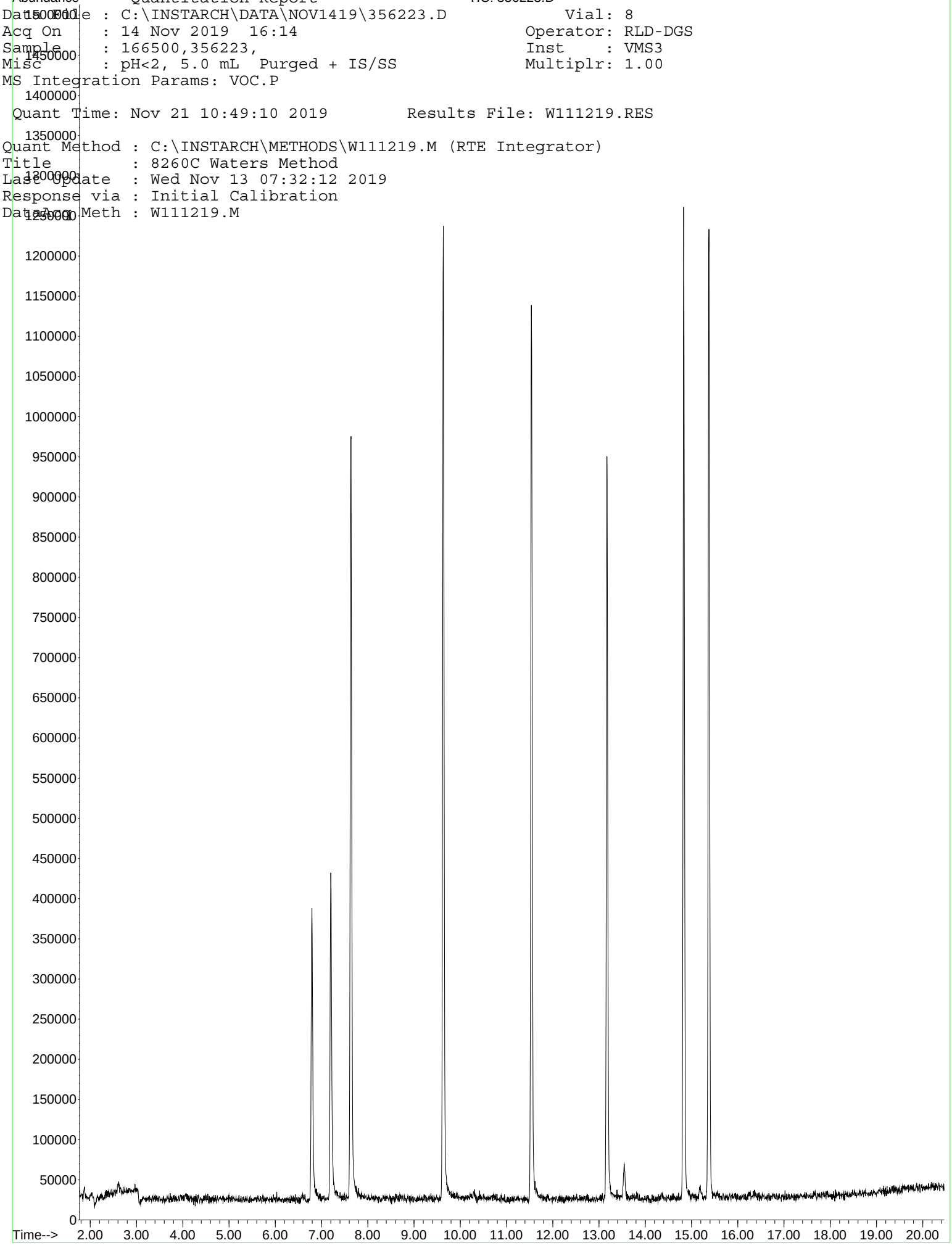
(#) = qualifier out of range (m) = manual integration

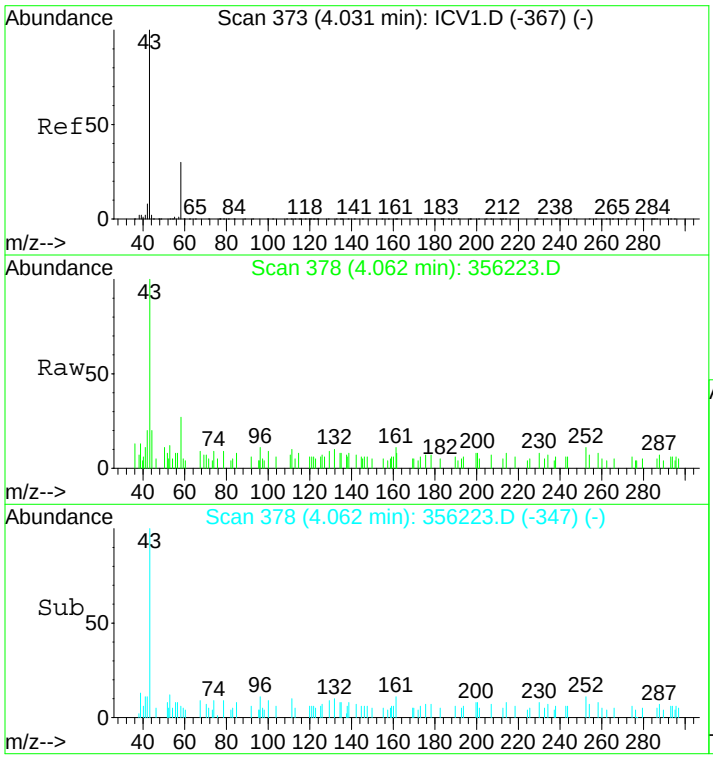
Abundance Quantitation Report TIC: 356223.D

Data File : C:\INSTARCH\DATA\NOV1419\356223.D Vial: 8
Acq On : 14 Nov 2019 16:14 Operator: RLD-DGS
Sample : 166500,356223, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:10 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

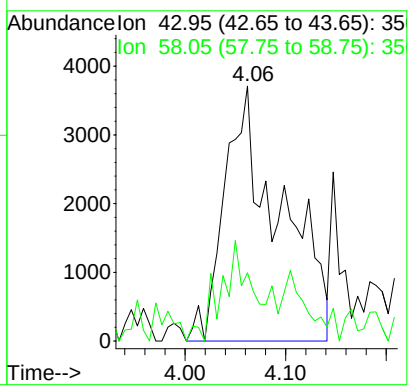




#15
Acetone
Concen: 5.84 ug/L
RT: 4.06 min Scan# 378
Delta R.T. 0.04 min
Lab File: 356223.D
Acq: 14 Nov 2019 16:14

Tgt Ion: 43 Resp: 14231

Ion	Ratio	Lower	Upper
43	100		
58	24.5	11.8	51.8



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356207.D Vial: 9
Acq On : 14 Nov 2019 16:44 Operator: RLD-DGS
Sample : 166500,356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:19 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1057548	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	798793	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	421972	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	259922	19.192	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 96 %			
45) SURR12DCAd4	7.20	102	75605	20.234	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 101 %			
61) SURRd8Tolule	9.63	98	1012858	19.662	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 98 %			
83) SURR4BrFBenz	13.17	95	389016	20.385	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.81	64	2882	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.05	43	9035	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	0.00	84	0	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.35	57	2520	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.21	96	15480	0.9899	ug/L #	86
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356207.D Vial: 9
Acq On : 14 Nov 2019 16:44 Operator: RLD-DGS
Sample : 166500,356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:19 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.30	78	7303	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	419423	28.5272	ug/L	99
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	9.73	92	26532	0.7050	ug/L	88
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.54	91	2443	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	11.74	91	5928	N.D.		
76)	m p-Xylene	11.91	106	5752	N.D.		
77)	o-Xylene	12.45	106	3458	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	13.28	75	2715	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	13.81	105	3455	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	14.36	105	5192	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356207.D Vial: 9
Acq On : 14 Nov 2019 16:44 Operator: RLD-DGS
Sample : 166500,356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:19 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

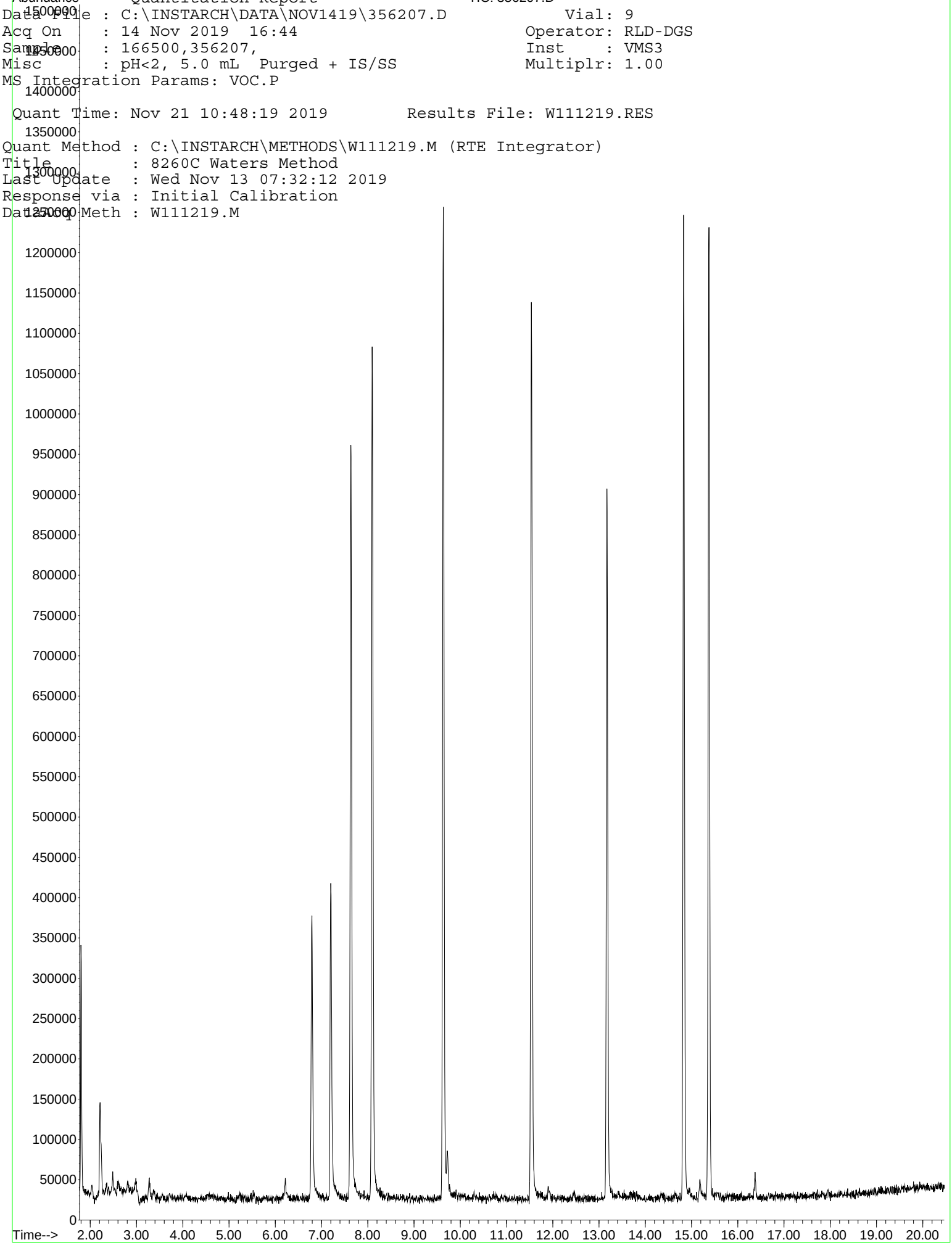
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	17.96	128	2538	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

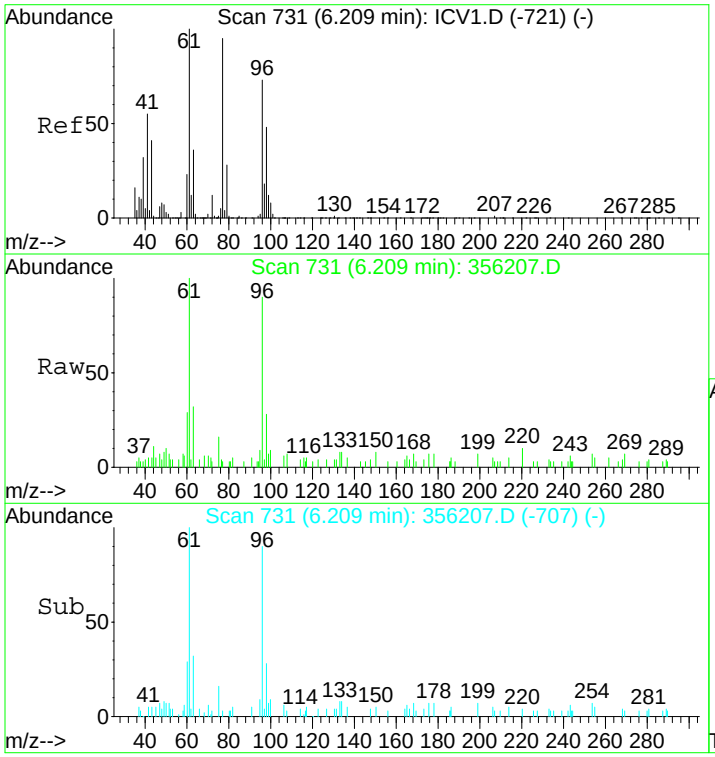
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1419\356207.D Vial: 9
Acq On : 14 Nov 2019 16:44 Operator: RLD-DGS
Sample : 166500,356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:19 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

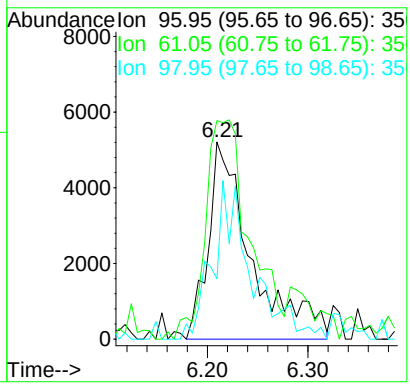


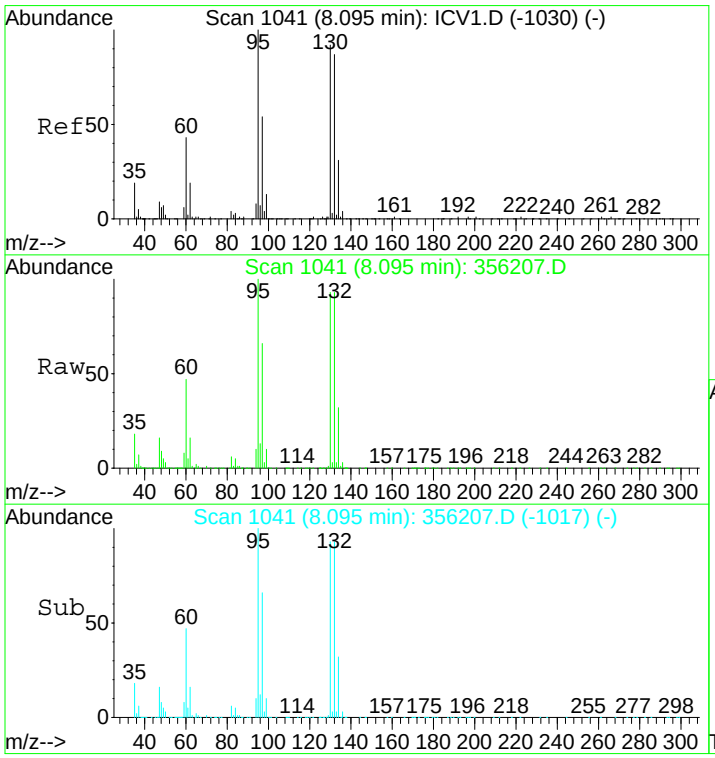


#32
c12dichlorte
Concen: 0.99 ug/L
RT: 6.21 min Scan# 731
Delta R.T. -0.01 min
Lab File: 356207.D
Acq: 14 Nov 2019 16:44

Tgt Ion: 96 Resp: 15480

Ion	Ratio	Lower	Upper
96	100		
61	113.7	114.3	154.3#
98	71.6	46.4	86.4

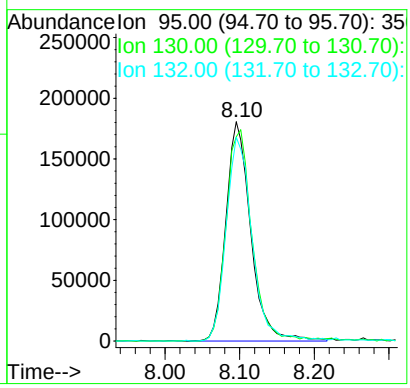


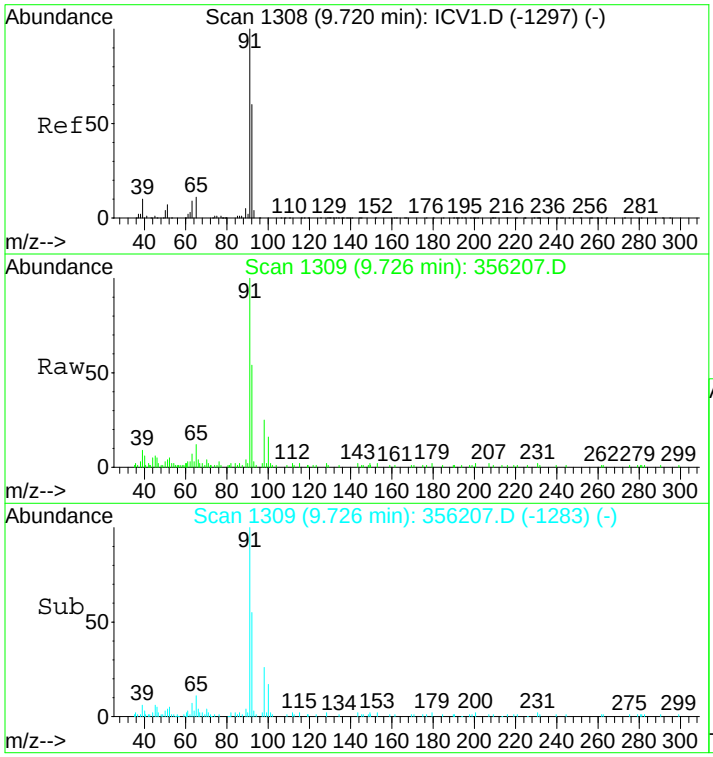


#49
trichloroete
Concen: 28.53 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356207.D
Acq: 14 Nov 2019 16:44

Tgt Ion: 95 Resp: 419423

Ion	Ratio	Lower	Upper
95	100		
130	100.4	80.5	120.5
132	96.5	74.5	114.5

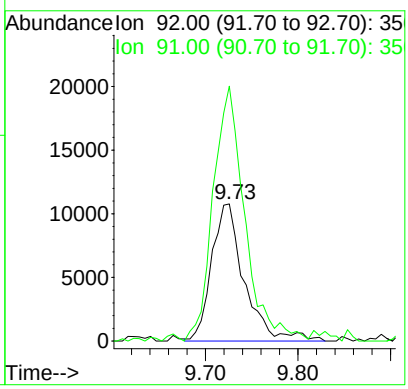




#62
Toluene
Concen: 0.71 ug/L
RT: 9.73 min Scan# 1309
Delta R.T. 0.01 min
Lab File: 356207.D
Acq: 14 Nov 2019 16:44

Tgt Ion: 92 Resp: 26532

Ion	Ratio	Lower	Upper
92	100		
91	179.3	143.4	183.4



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356208.D Vial: 10
Acq On : 14 Nov 2019 17:14 Operator: RLD-DGS
Sample : 166500,356208, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:30 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1046414	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	804317	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	430615	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	264431	19.733	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	74256	20.084	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 100 %			
61) SURRd8Tolule	9.63	98	1015718	19.928	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100 %			
83) SURR4BrFBenz	13.18	95	386554	19.849	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 99 %			

Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.08	50	2579	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.09	43	7594	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	2210	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	3043	N.D.	
21) tbutylalcohol	0.00	59	0	N.D.	
22) Acrylonitrile	0.00	53	0	N.D.	
23) t12dichlorte	0.00	96	0	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.35	57	2153	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	6.22	96	17586	1.1366 ug/L	89
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356208.D Vial: 10
Acq On : 14 Nov 2019 17:14 Operator: RLD-DGS
Sample : 166500,356208, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:30 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.29	78	6879	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	472448	32.4756	ug/L	99
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	9.49	43	2008	N.D.		
62)	Toluene	9.72	92	27602	0.7413	ug/L	93
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	0.00	91	0	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	11.75	91	6123	N.D.		
76)	m p-Xylene	11.92	106	7695	N.D.		
77)	o-Xylene	12.45	106	4791	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	13.30	75	2314	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	13.69	105	3679	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	14.34	105	7280	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	14.82	119	3999	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	15.37	91	3092	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356208.D Vial: 10
Acq On : 14 Nov 2019 17:14 Operator: RLD-DGS
Sample : 166500,356208, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:30 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

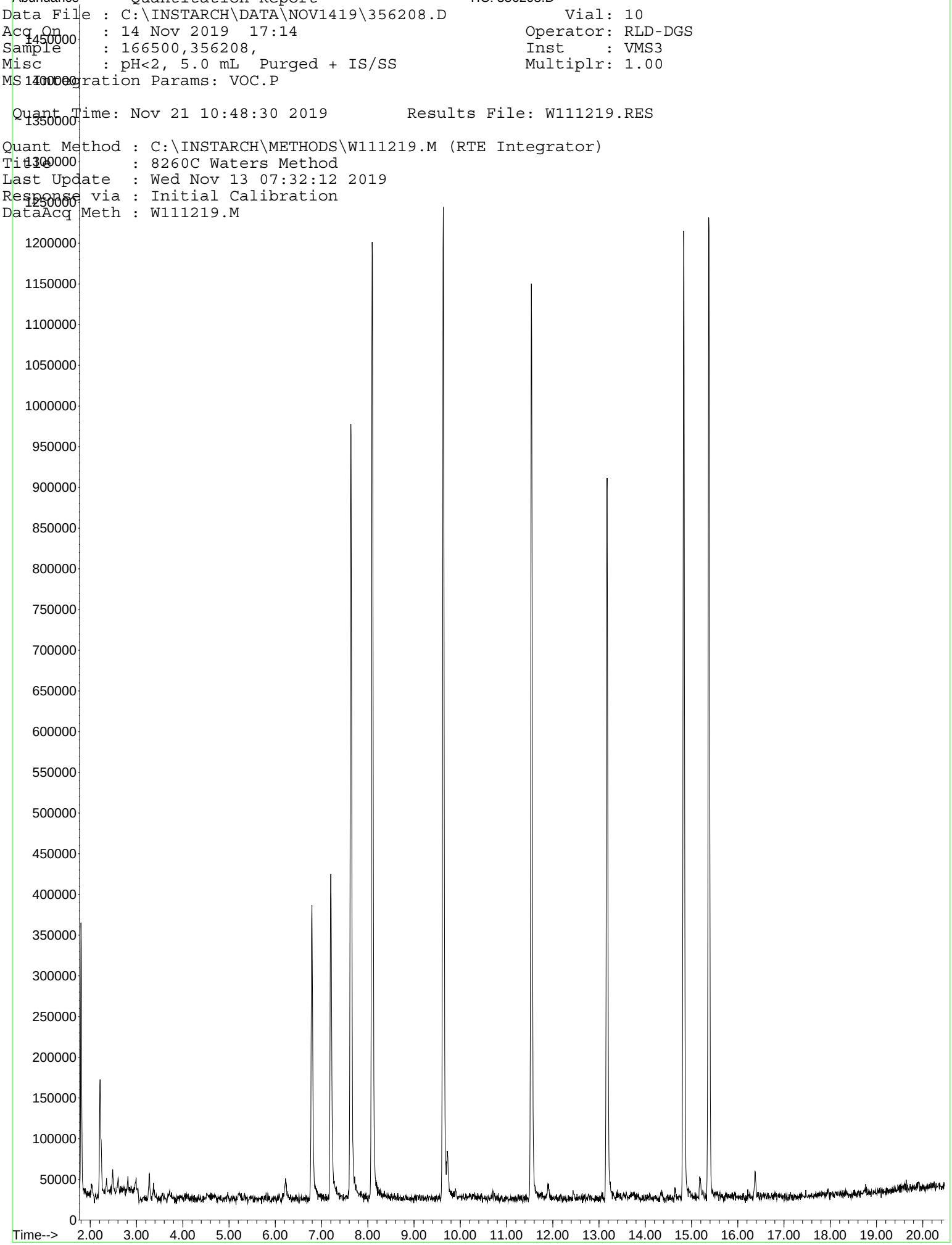
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	17.96	128	3140	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

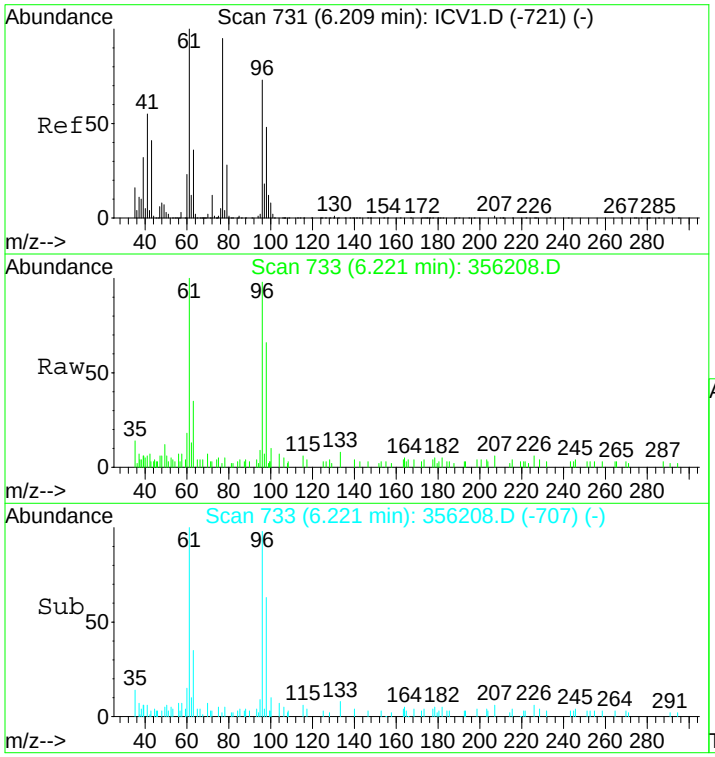
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1419\356208.D Vial: 10
Acq On : 14 Nov 2019 17:14 Operator: RLD-DGS
Sample : 166500,356208, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:30 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

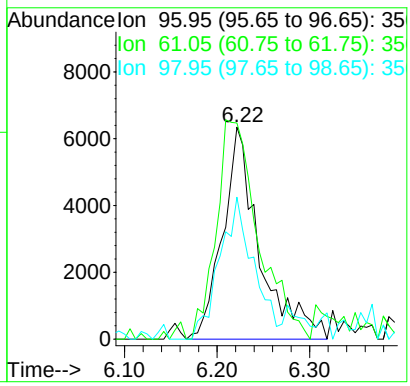


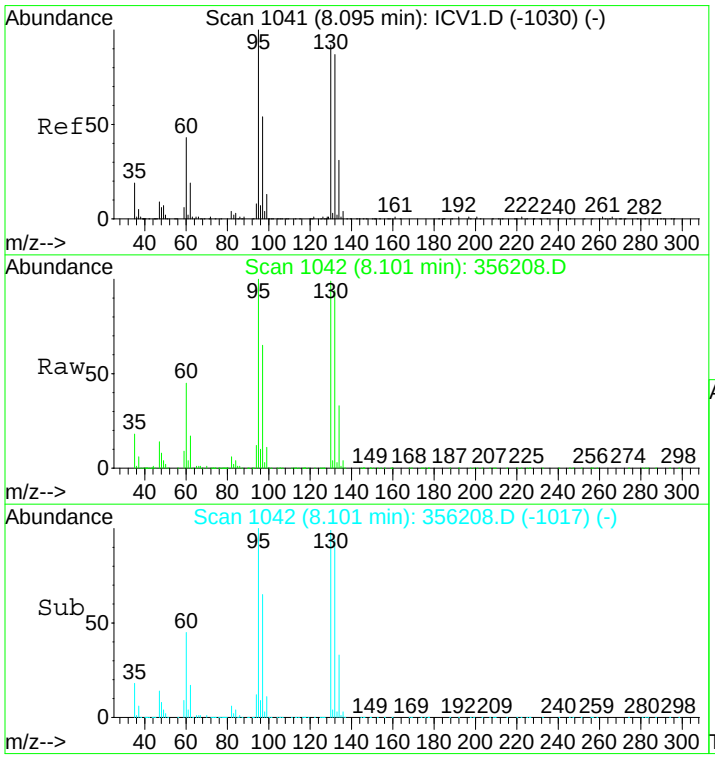


#32
c12dichlorte
Concen: 1.14 ug/L
RT: 6.22 min Scan# 733
Delta R.T. 0.01 min
Lab File: 356208.D
Acq: 14 Nov 2019 17:14

Tgt Ion: 96 Resp: 17586

Ion	Ratio	Lower	Upper
96	100		
61	117.9	114.3	154.3
98	61.9	46.4	86.4

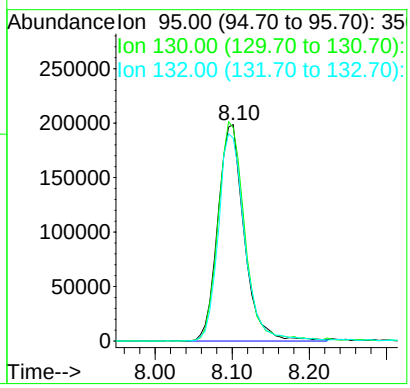


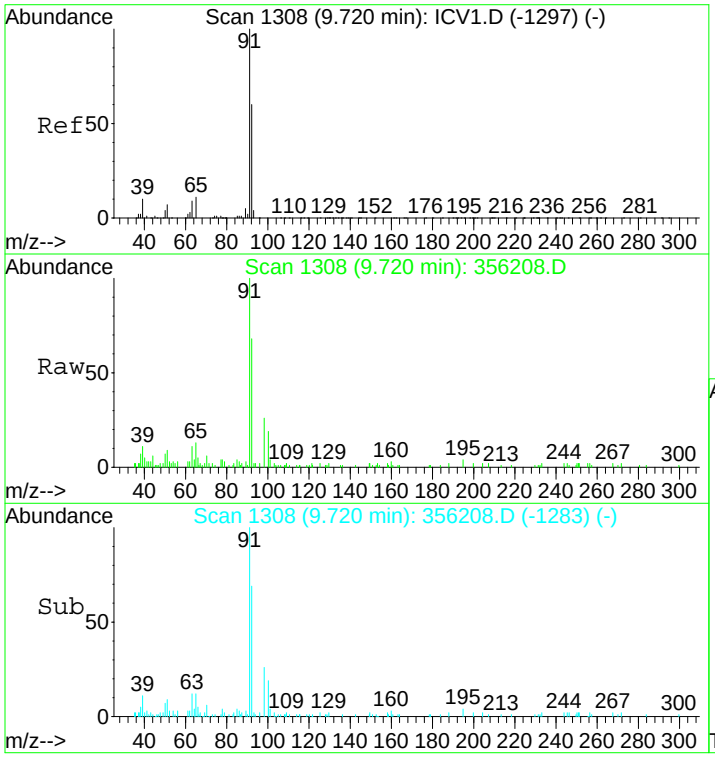


#49
trichloroete
Concen: 32.48 ug/L
RT: 8.10 min Scan# 1042
Delta R.T. -0.00 min
Lab File: 356208.D
Acq: 14 Nov 2019 17:14

Tgt Ion: 95 Resp: 472448

Ion	Ratio	Lower	Upper
95	100		
130	101.7	80.5	120.5
132	95.8	74.5	114.5

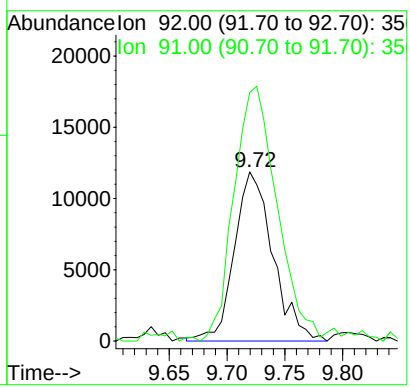




#62
Toluene
Concen: 0.74 ug/L
RT: 9.72 min Scan# 1308
Delta R.T. -0.00 min
Lab File: 356208.D
Acq: 14 Nov 2019 17:14

Tgt Ion: 92 Resp: 27602

Ion	Ratio	Lower	Upper
92	100		
91	173.3	143.4	183.4



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356211.D Vial: 11
Acq On : 14 Nov 2019 17:44 Operator: RLD-DGS
Sample : 166500,356211, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:39 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1015711	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	799666	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	410226	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	258179	19.848	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	76884	21.424	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 107 %			
61) SURRd8Tolule	9.63	98	988205	19.974	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100 %			
83) SURR4BrFBenz	13.17	95	378213	20.386	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.80	64	2758	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	3.95	96	2585	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.06	43	12448	5.3134	ug/L #	43
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.21	76	3393	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	0.00	84	0	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.32	57	2494	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.22	96	45617	3.0373	ug/L	93
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356211.D Vial: 11
Acq On : 14 Nov 2019 17:44 Operator: RLD-DGS
Sample : 166500,356211, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:39 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.29	78	7552	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.10	95	1443860	102.2497 ug/L	99
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	9.72	92	5350	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.54	91	2133	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	11.76	91	2014	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.37	91	2131	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356211.D Vial: 11
Acq On : 14 Nov 2019 17:44 Operator: RLD-DGS
Sample : 166500,356211, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:39 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

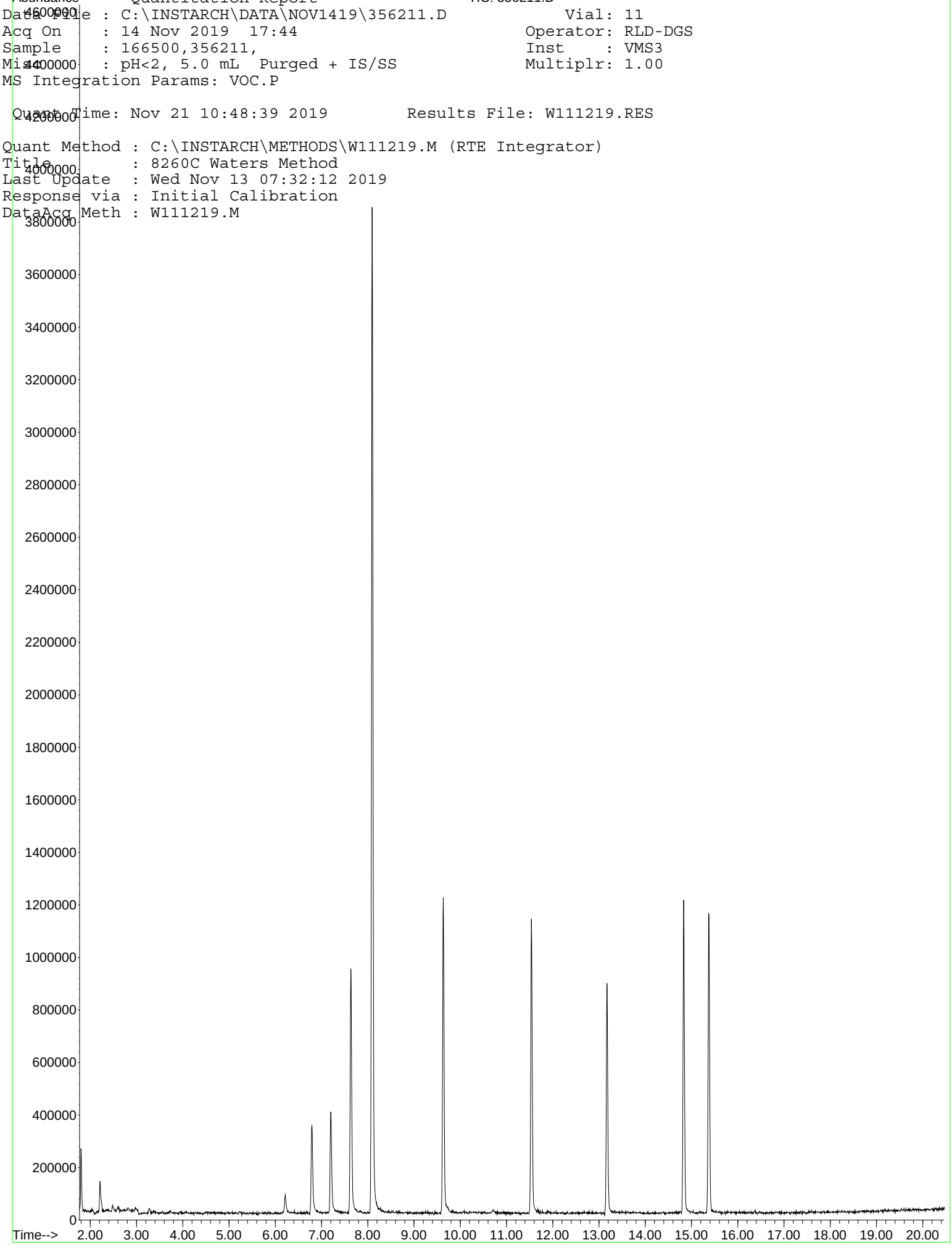
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

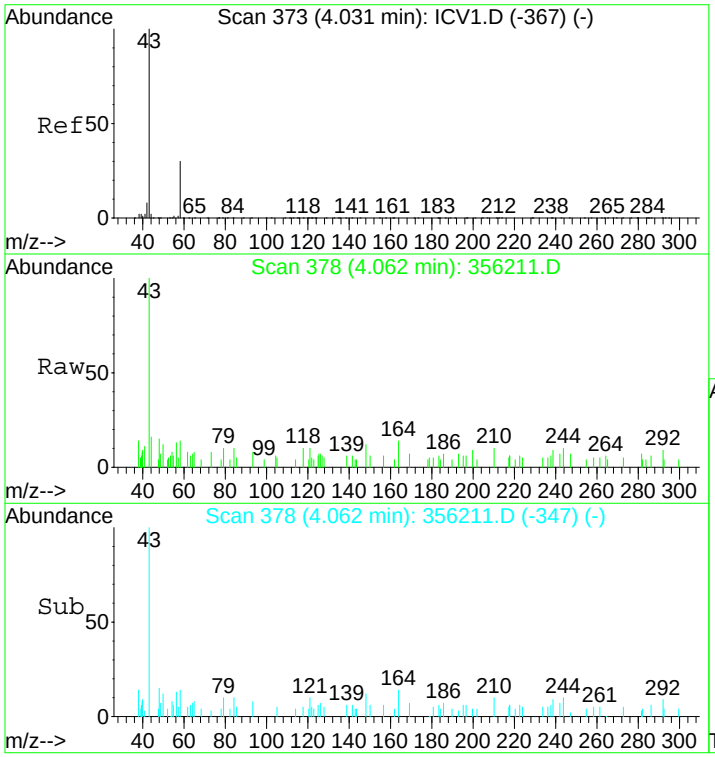
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1419\356211.D Vial: 11
Acq On : 14 Nov 2019 17:44 Operator: RLD-DGS
Sample : 166500,356211, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:39 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

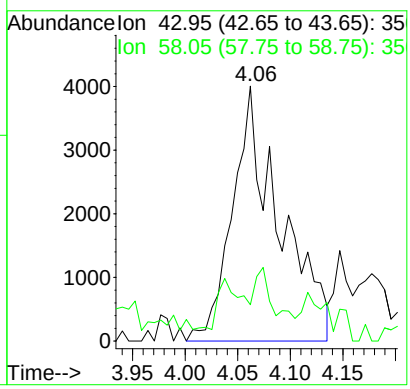


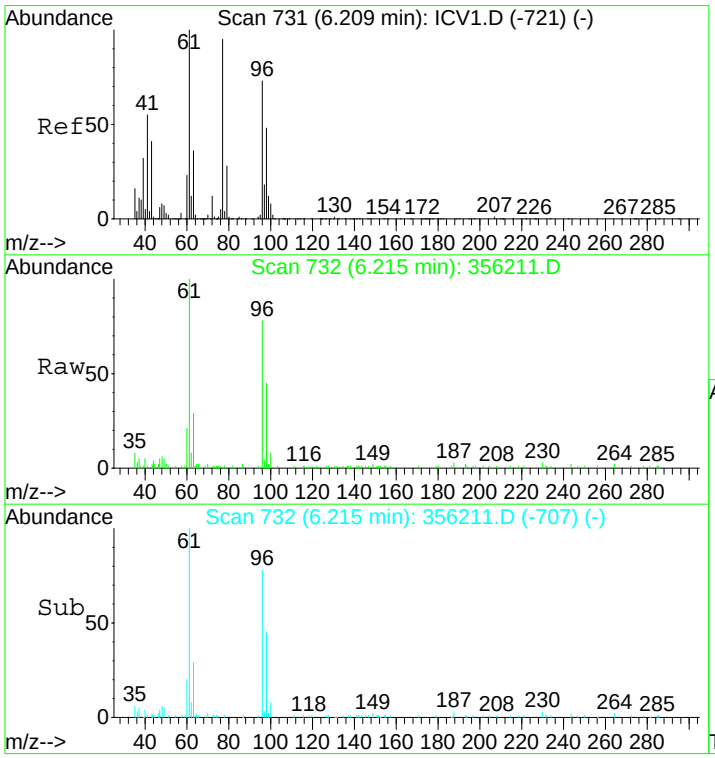


#15
Acetone
Concen: 5.31 ug/L
RT: 4.06 min Scan# 378
Delta R.T. 0.04 min
Lab File: 356211.D
Acq: 14 Nov 2019 17:44

Tgt Ion: 43 Resp: 12448

Ion	Ratio	Lower	Upper
43	100		
58	0.0	11.8	51.8#

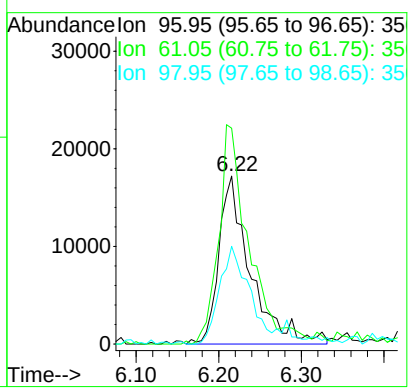




#32
c12dichlorte
Concen: 3.04 ug/L
RT: 6.22 min Scan# 732
Delta R.T. 0.00 min
Lab File: 356211.D
Acq: 14 Nov 2019 17:44

Tgt Ion: 96 Resp: 45617

Ion	Ratio	Lower	Upper
96	100		
61	124.7	114.3	154.3
98	62.5	46.4	86.4



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356209.D Vial: 12
Acq On : 14 Nov 2019 18:13 Operator: RLD-DGS
Sample : 166500,356209,50 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1017426	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	776511	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	413911	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	260523	19.995	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.20	102	74128	20.621	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 103	%		
61) SURRd8Tolule	9.63	98	979941	19.774	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99	%		
83) SURR4BrFBenz	13.17	95	379555	20.276	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101	%		
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.85	64	2331	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.10	43	2548	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.58	84	6730	0.4671	ug/L	93
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356209.D Vial: 12
Acq On : 14 Nov 2019 18:13 Operator: RLD-DGS
Sample : 166500,356209,50 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	215733	15.2518	ug/L	97
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.53	91	3177	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	13.33	75	3012	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	14.82	119	3058	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356209.D Vial: 12
Acq On : 14 Nov 2019 18:13 Operator: RLD-DGS
Sample : 166500,356209,50 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

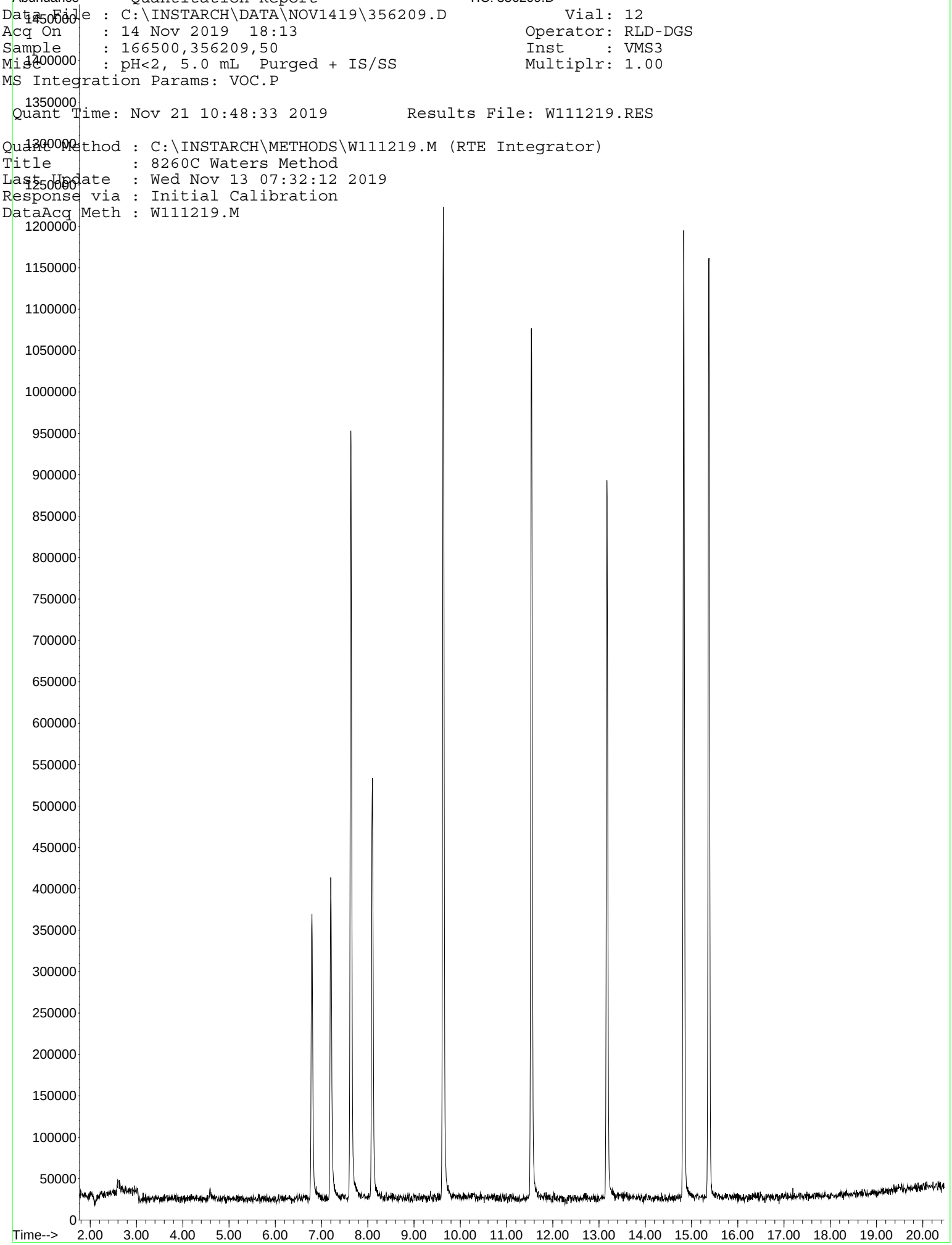
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

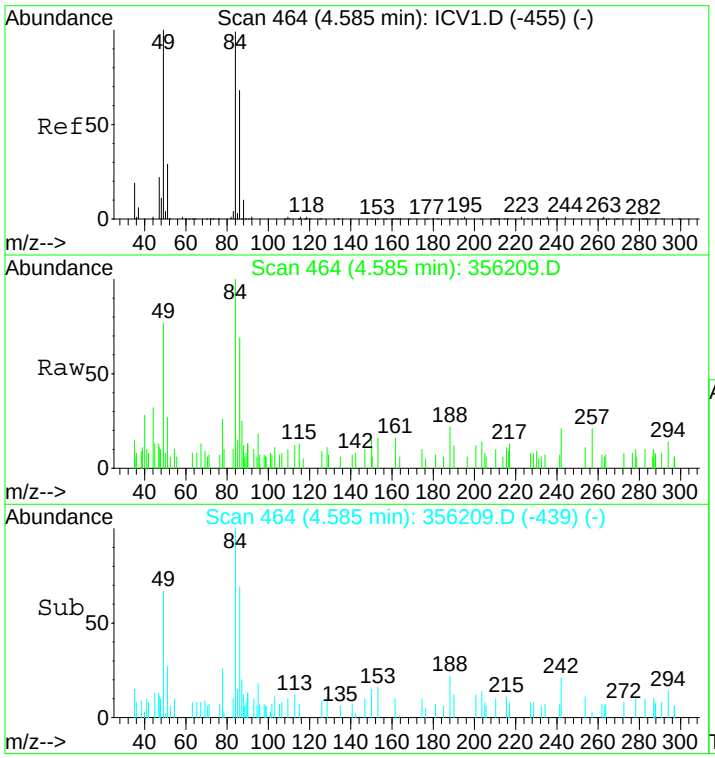
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1419\356209.D Vial: 12
Acq On : 14 Nov 2019 18:13 Operator: RLD-DGS
Sample : 166500,356209,50 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

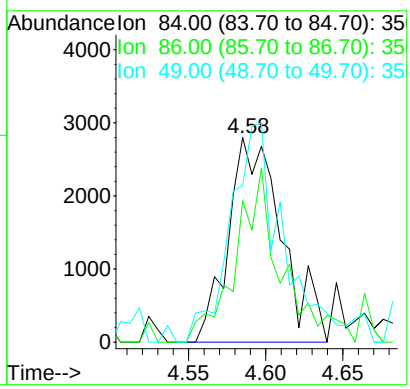


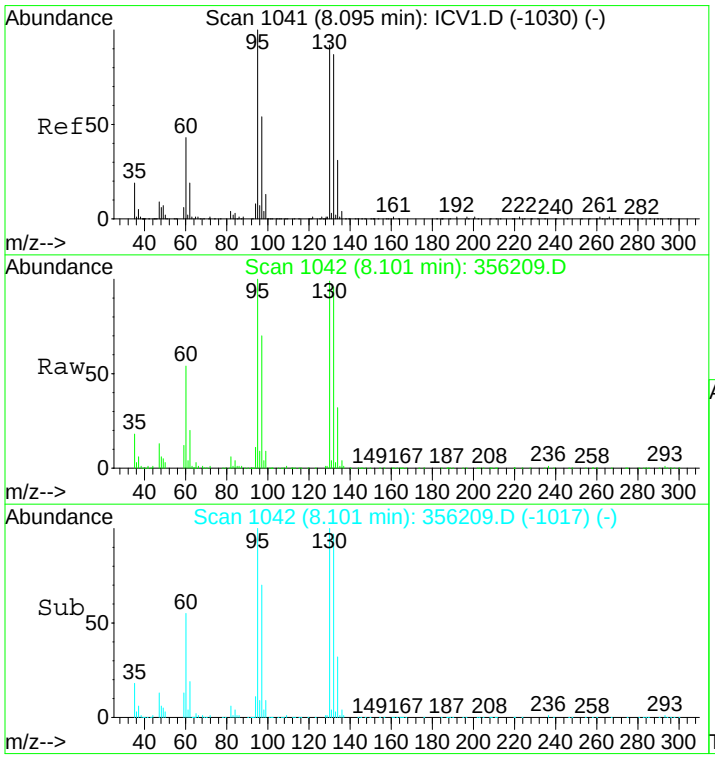


#20
Methylchlorid
Concen: 0.47 ug/L
RT: 4.58 min Scan# 464
Delta R.T. -0.00 min
Lab File: 356209.D
Acq: 14 Nov 2019 18:13

Tgt Ion: 84 Resp: 6730

Ion	Ratio	Lower	Upper
84	100		
86	72.7	49.1	89.1
49	108.1	97.6	137.6

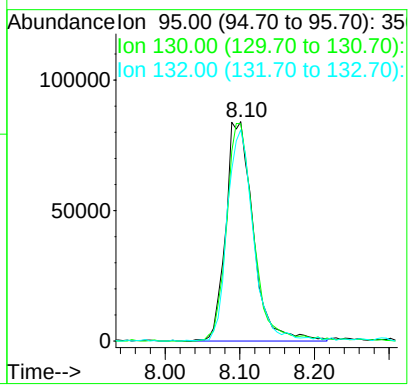




#49
trichloroete
Concen: 15.25 ug/L
RT: 8.10 min Scan# 1042
Delta R.T. -0.00 min
Lab File: 356209.D
Acq: 14 Nov 2019 18:13

Tgt Ion: 95 Resp: 215733

Ion	Ratio	Lower	Upper
95	100		
130	97.5	80.5	120.5
132	91.8	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356210.D Vial: 13
Acq On : 14 Nov 2019 18:43 Operator: RLD-DGS
Sample : 166500,356210,50 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:36 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1034471	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	792660	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	416198	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	259344	19.576	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 98 %			
45) SURR12DCAd4	7.20	102	71928	19.679	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 98 %			
61) SURRd8Tolule	9.63	98	999722	19.840	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	382432	20.318	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 102 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	7005	0.4782	ug/L	95
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.22	96	7257	0.4744	ug/L #	62
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.60	42	2046	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356210.D Vial: 13
Acq On : 14 Nov 2019 18:43 Operator: RLD-DGS
Sample : 166500,356210,50 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:36 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	236012	16.4105	ug/L	99
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.55	91	2739	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	13.33	75	3145	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356210.D Vial: 13
Acq On : 14 Nov 2019 18:43 Operator: RLD-DGS
Sample : 166500,356210,50 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:36 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

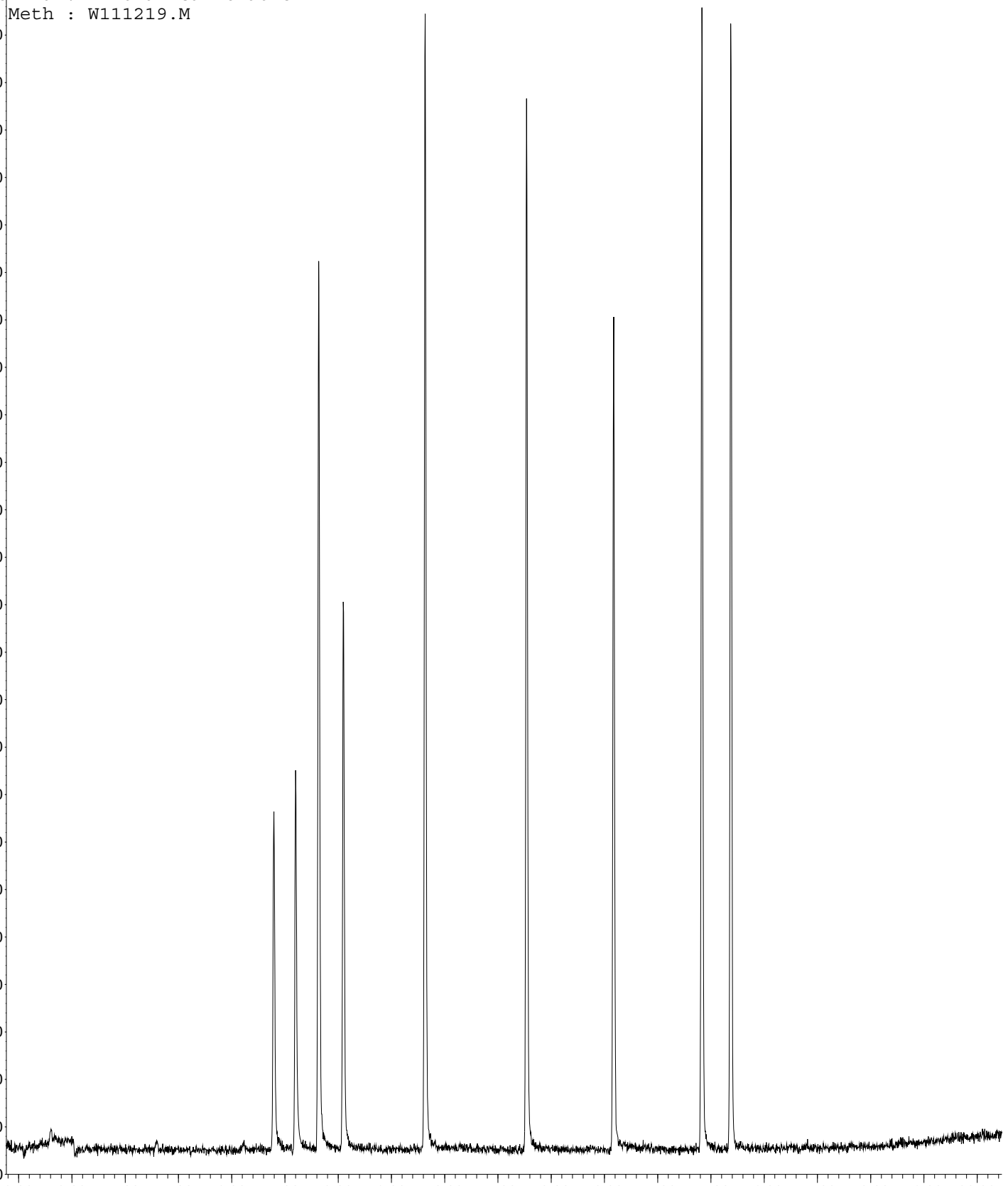
(#) = qualifier out of range (m) = manual integration

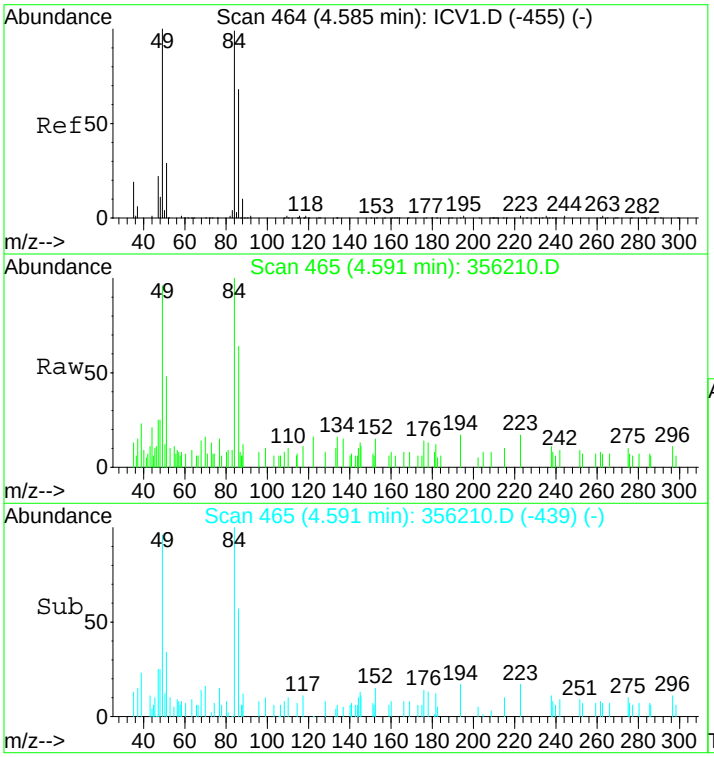
Abundance Quantitation Report TIC: 356210.D

Data File : C:\INSTARCH\DATA\NOV1419\356210.D Vial: 13
Acq On : 14 Nov 2019 18:43 Operator: RLD-DGS
Sample : 166500,356210,50 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:36 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

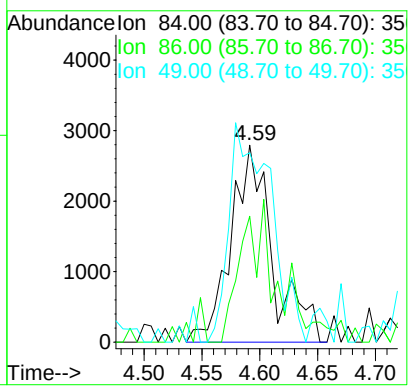


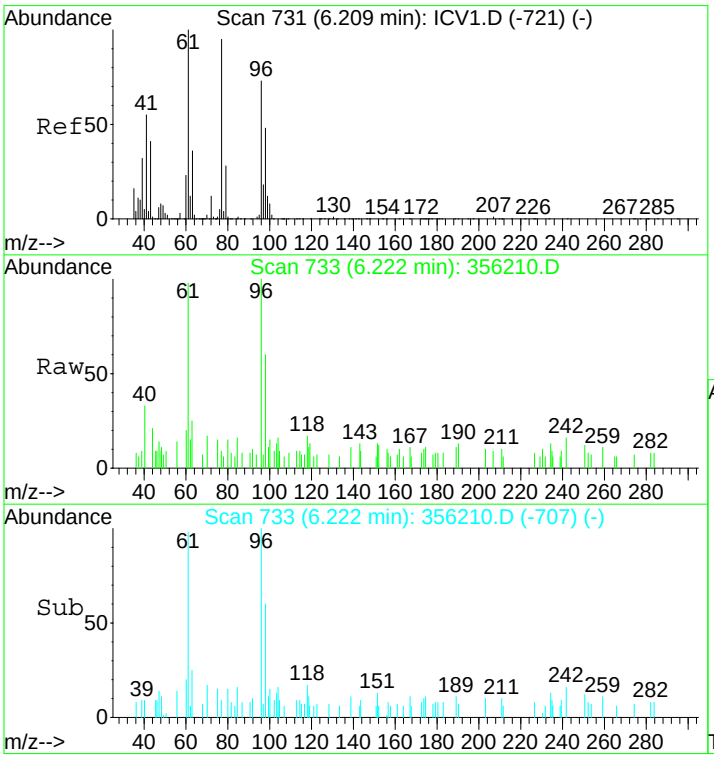


#20
Methylchlorid
Concen: 0.48 ug/L
RT: 4.59 min Scan# 465
Delta R.T. 0.01 min
Lab File: 356210.D
Acq: 14 Nov 2019 18:43

Tgt Ion: 84 Resp: 7005

Ion	Ratio	Lower	Upper
84	100		
86	65.7	49.1	89.1
49	111.0	97.6	137.6

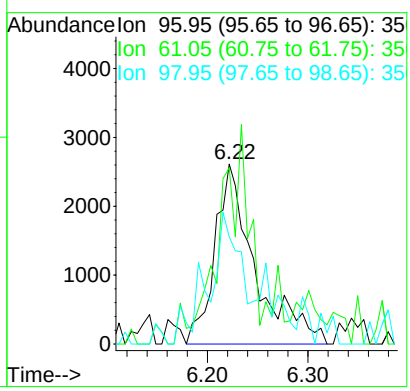


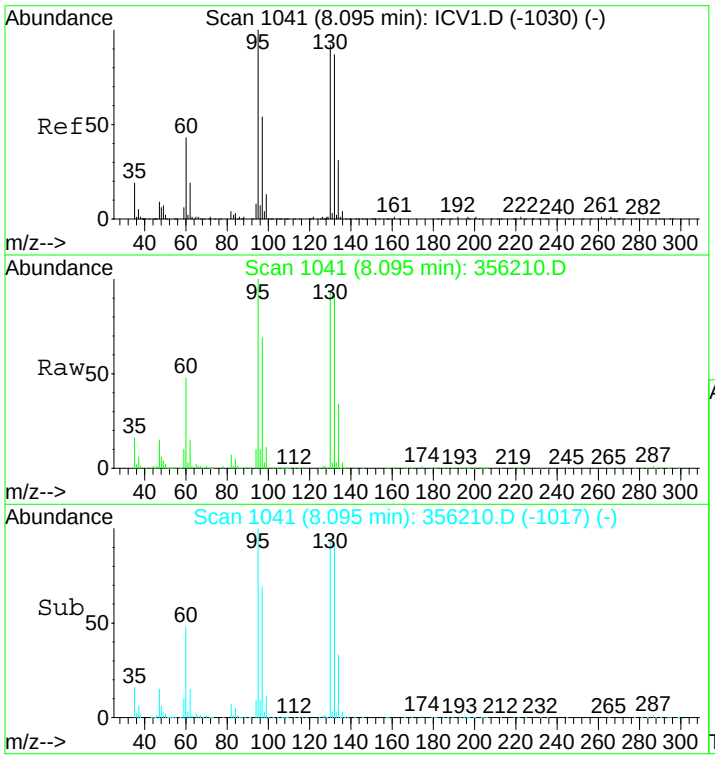


#32
c12dichlorte
Concen: 0.47 ug/L
RT: 6.22 min Scan# 733
Delta R.T. 0.01 min
Lab File: 356210.D
Acq: 14 Nov 2019 18:43

Tgt Ion: 96 Resp: 7257

Ion	Ratio	Lower	Upper
96	100		
61	77.0	114.3	154.3#
98	80.3	46.4	86.4

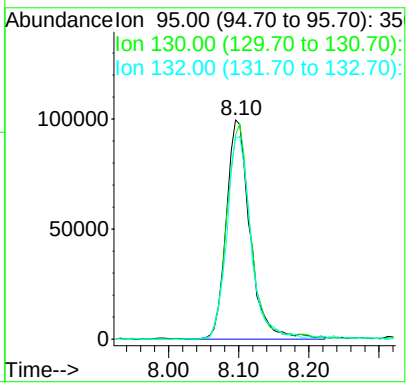




#49
trichloroete
Concen: 16.41 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356210.D
Acq: 14 Nov 2019 18:43

Tgt Ion: 95 Resp: 236012

Ion	Ratio	Lower	Upper
95	100		
130	98.7	80.5	120.5
132	94.2	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356212.D Vial: 14
Acq On : 14 Nov 2019 19:12 Operator: RLD-DGS
Sample : 166500,356212,10 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:45 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1004417	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	781048	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	408560	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	245402	19.078	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 95 %			
45) SURR12DCAd4	7.20	102	72235	20.355	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 102 %			
61) SURRd8Tolule	9.63	98	970594	19.839	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	365682	19.791	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.88	64	2068	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	9337	0.6565	ug/L	84
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.22	96	6205	0.4178	ug/L #	86
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356212.D Vial: 14
Acq On : 14 Nov 2019 19:12 Operator: RLD-DGS
Sample : 166500,356212,10 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:45 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	320339	22.9405	ug/L	98
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.55	91	2268	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	15.36	91	2110	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356212.D Vial: 14
Acq On : 14 Nov 2019 19:12 Operator: RLD-DGS
Sample : 166500,356212,10 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:45 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

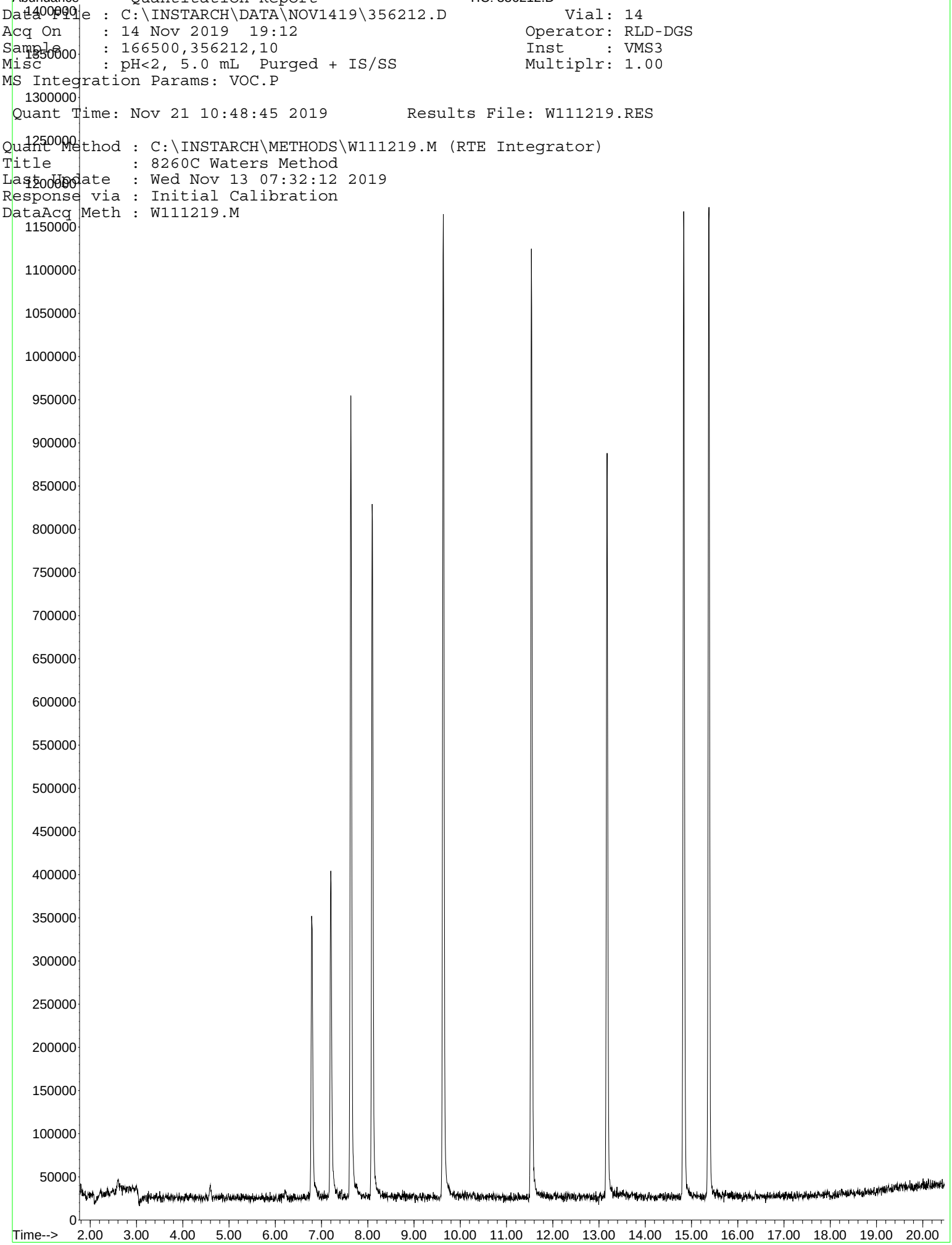
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

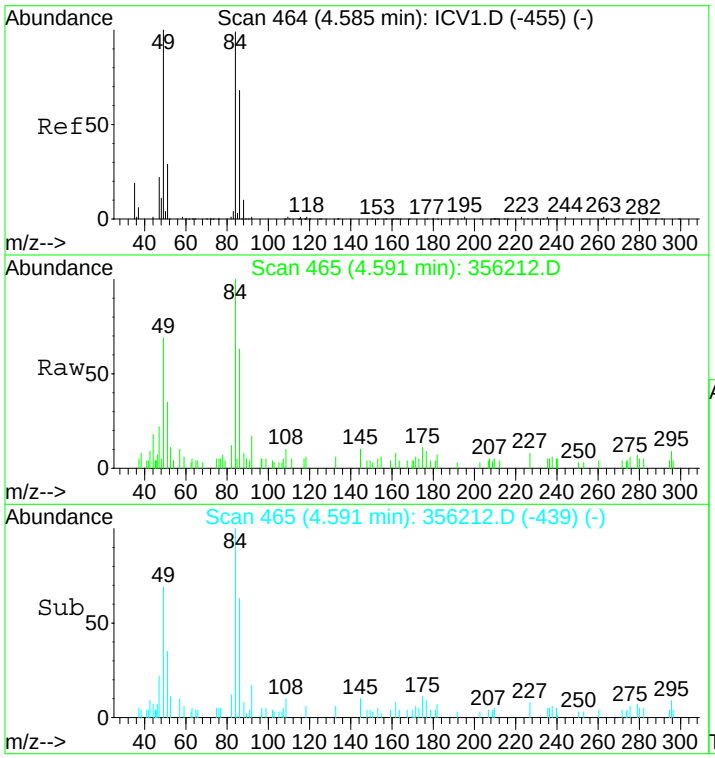
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1419\356212.D Vial: 14
Acq On : 14 Nov 2019 19:12 Operator: RLD-DGS
Sample : 166500,356212,10 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:45 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

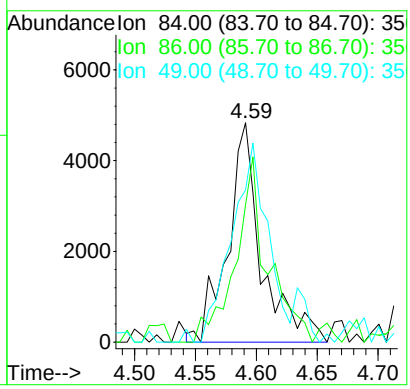


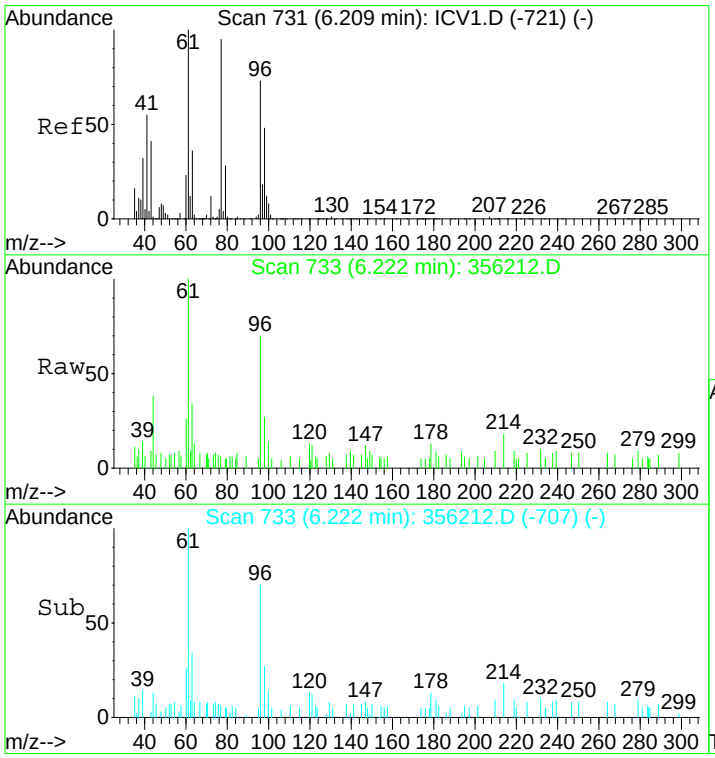


#20
Methylchlorid
Concen: 0.66 ug/L
RT: 4.59 min Scan# 465
Delta R.T. 0.01 min
Lab File: 356212.D
Acq: 14 Nov 2019 19:12

Tgt Ion: 84 Resp: 9337

Ion	Ratio	Lower	Upper
84	100		
86	80.1	49.1	89.1
49	97.7	97.6	137.6

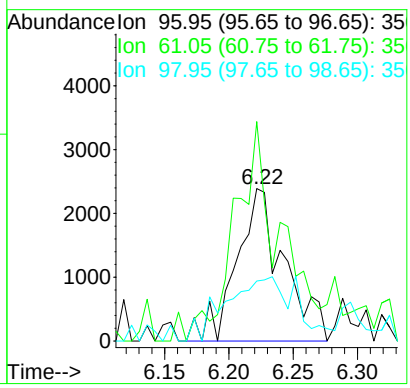


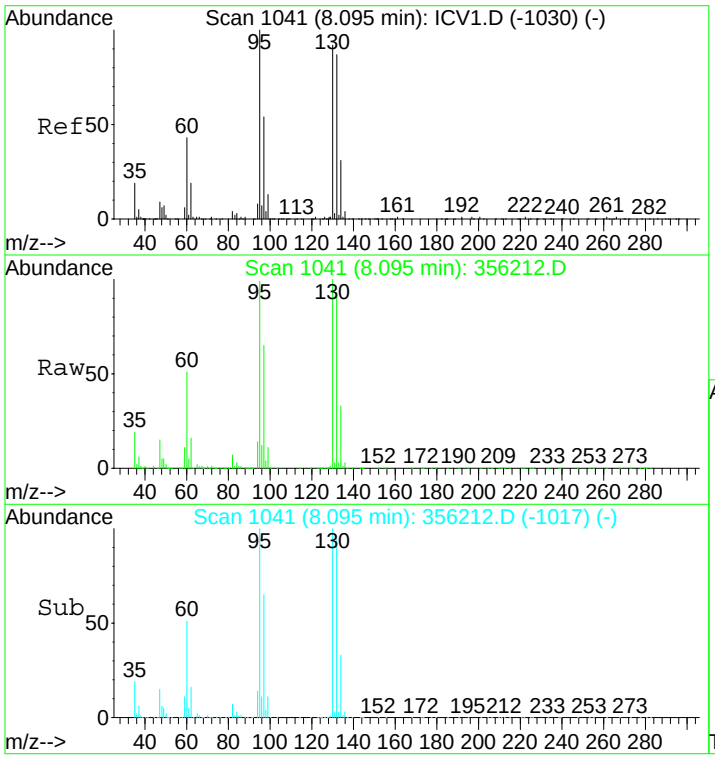


#32
c12dichlorte
Concen: 0.42 ug/L
RT: 6.22 min Scan# 733
Delta R.T. 0.01 min
Lab File: 356212.D
Acq: 14 Nov 2019 19:12

Tgt Ion: 96 Resp: 6205

Ion	Ratio	Lower	Upper
96	100		
61	156.0	114.3	154.3#
98	62.6	46.4	86.4

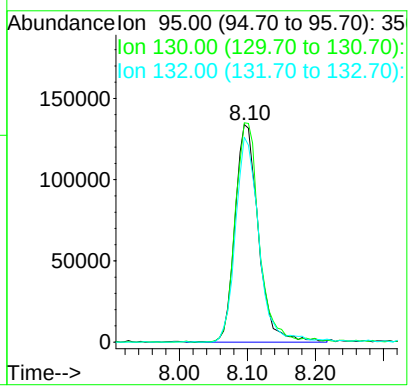




#49
trichloroete
Concen: 22.94 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356212.D
Acq: 14 Nov 2019 19:12

Tgt Ion: 95 Resp: 320339

Ion	Ratio	Lower	Upper
95	100		
130	103.5	80.5	120.5
132	94.6	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356213.D Vial: 15
Acq On : 14 Nov 2019 19:42 Operator: RLD-DGS
Sample : 166500,356213,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:48 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1016749	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	796322	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	411703	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	254445	19.541	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 98 %			
45) SURR12DCAd4	7.20	102	74267	20.673	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 103 %			
61) SURRd8Tolule	9.63	98	982937	19.847	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	374823	20.131	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.22	76	2291	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	5456	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.23	96	6279	0.4176	ug/L	90
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356213.D Vial: 15
Acq On : 14 Nov 2019 19:42 Operator: RLD-DGS
Sample : 166500,356213,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:48 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	543929	38.4801	ug/L	98
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.54	91	2764	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356213.D Vial: 15
Acq On : 14 Nov 2019 19:42 Operator: RLD-DGS
Sample : 166500,356213,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:48 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

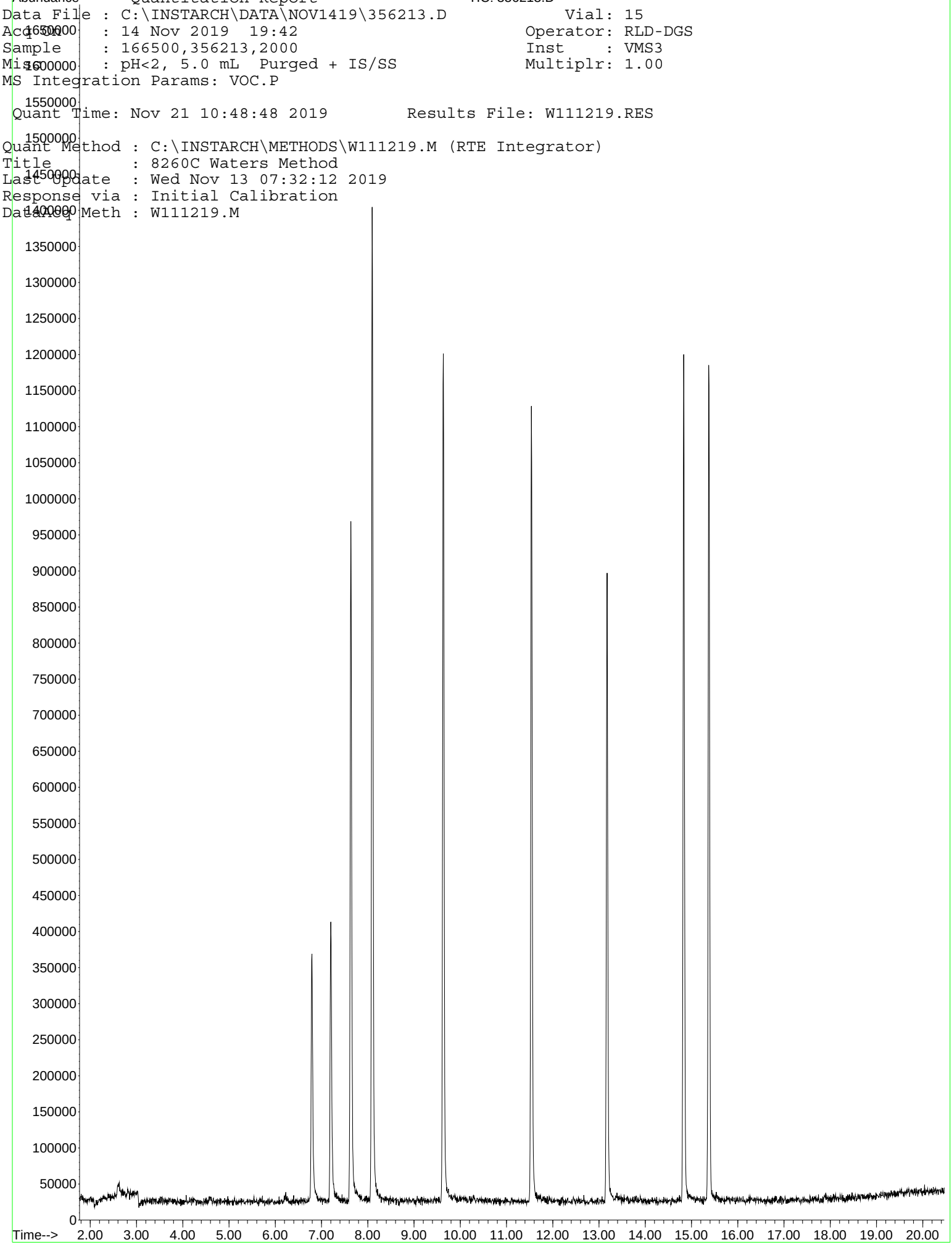
(#) = qualifier out of range (m) = manual integration

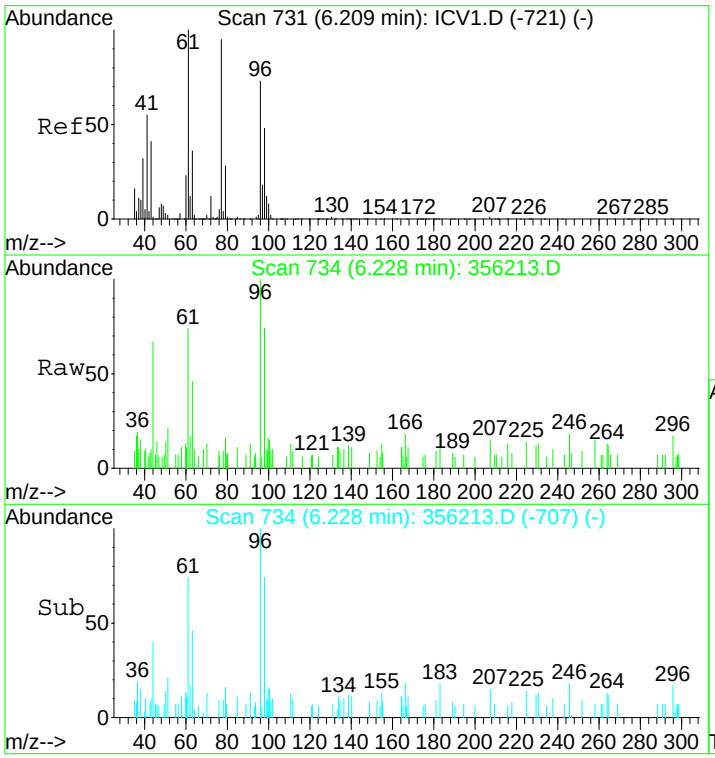
Abundance Quantitation Report TIC: 356213.D

Data File : C:\INSTARCH\DATA\NOV1419\356213.D Vial: 15
Acq On : 14 Nov 2019 19:42 Operator: RLD-DGS
Sample : 166500,356213,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:48 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

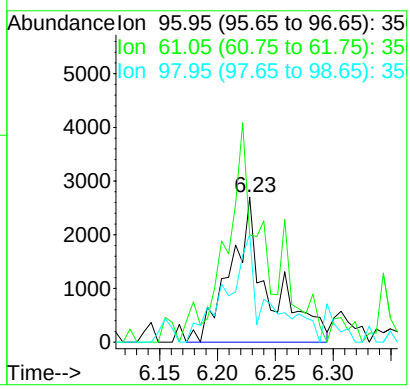


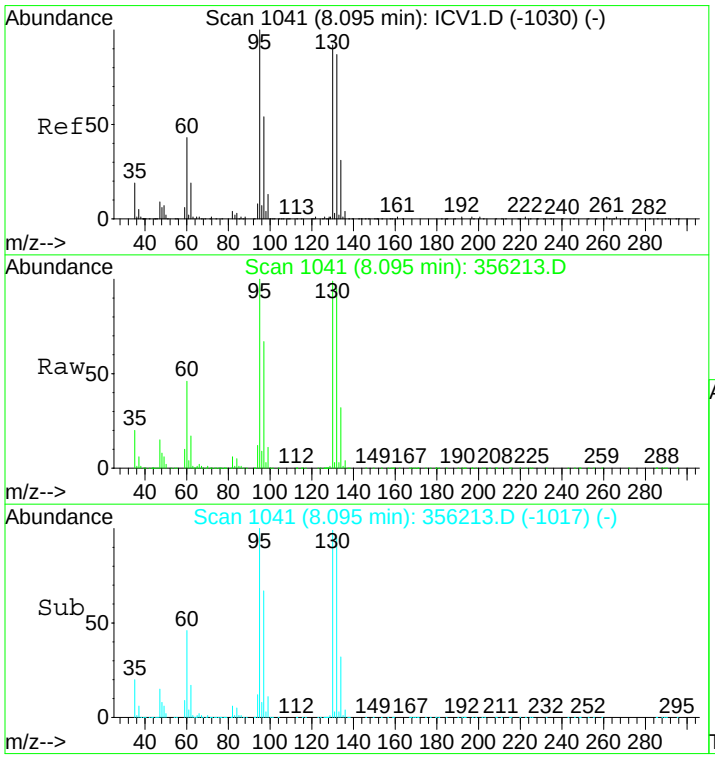


#32
c12dichlorte
Concen: 0.42 ug/L
RT: 6.23 min Scan# 734
Delta R.T. 0.01 min
Lab File: 356213.D
Acq: 14 Nov 2019 19:42

Tgt Ion: 96 Resp: 6279

Ion	Ratio	Lower	Upper
96	100		
61	145.1	114.3	154.3
98	75.7	46.4	86.4

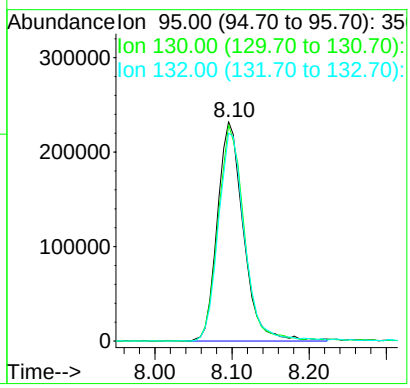




#49
trichloroete
Concen: 38.48 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356213.D
Acq: 14 Nov 2019 19:42

Tgt Ion: 95 Resp: 543929

Ion	Ratio	Lower	Upper
95	100		
130	98.6	80.5	120.5
132	96.2	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356214.D Vial: 16
Acq On : 14 Nov 2019 20:13 Operator: RLD-DGS
Sample : 166500,356214,20 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:51 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1043740	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	788406	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	406506	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	254633	19.050	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 95 %			
45) SURR12DCAd4	7.19	102	74501	20.202	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 101 %			
61) SURRd8Tolule	9.63	98	980309	19.282	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 96 %			
83) SURR4BrFBenz	13.18	95	374091	20.348	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 102 %			

Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	0.00	50	0	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.72	94	2161	N.D.	
6) Chloroethane	2.78	64	3072	N.D.	
7) Dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	0.00	43	0	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	0.00	76	0	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.60	84	3332	N.D.	
21) tbutylalcohol	0.00	59	0	N.D.	
22) Acrylonitrile	0.00	53	0	N.D.	
23) t12dichlorte	0.00	96	0	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356214.D Vial: 16
Acq On : 14 Nov 2019 20:13 Operator: RLD-DGS
Sample : 166500,356214,20 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:51 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	313253	21.5879	ug/L	98
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.53	91	3228	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356214.D Vial: 16
Acq On : 14 Nov 2019 20:13 Operator: RLD-DGS
Sample : 166500,356214,20 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:51 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

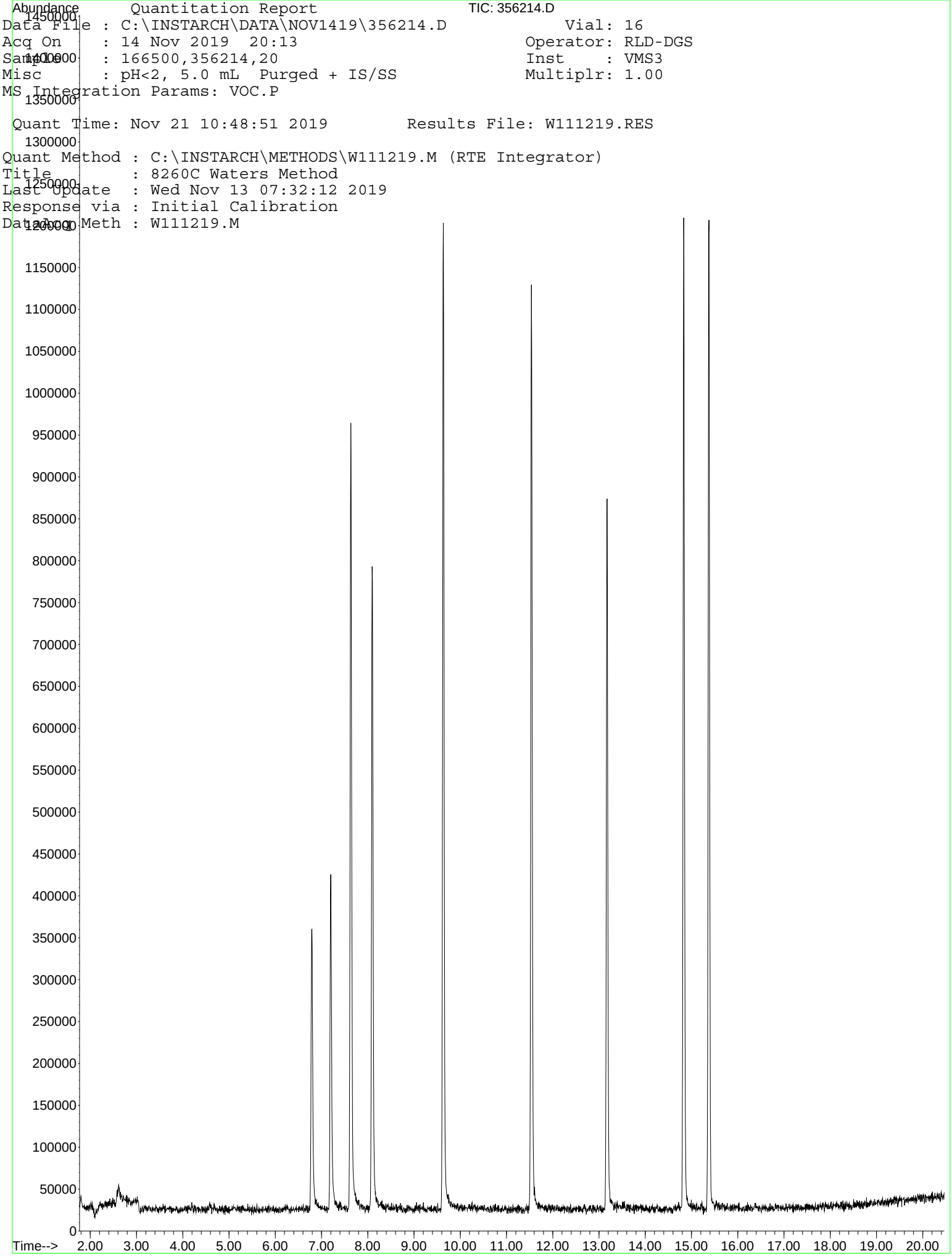
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

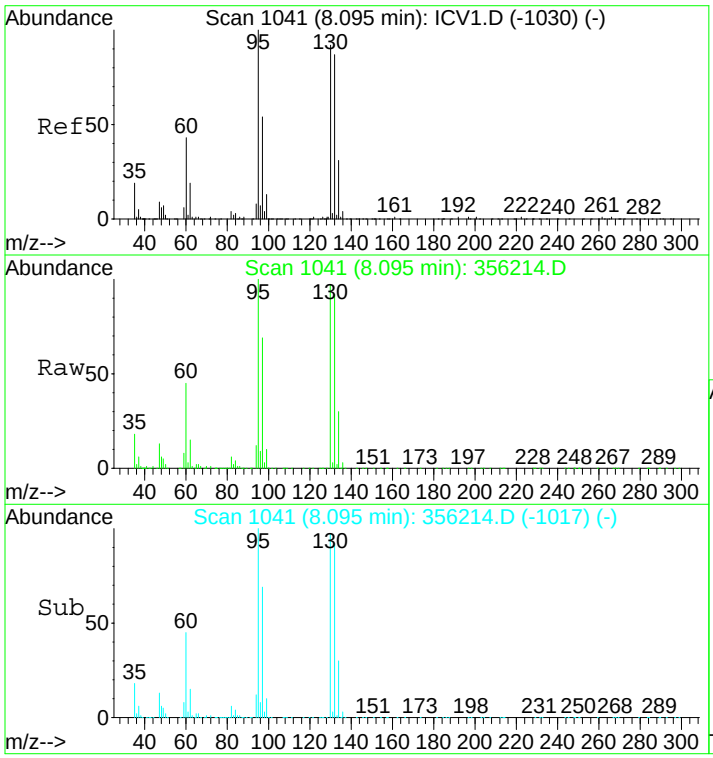
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1419\356214.D Vial: 16
Acq On : 14 Nov 2019 20:13 Operator: RLD-DGS
Sample : 166500,356214,20 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:51 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

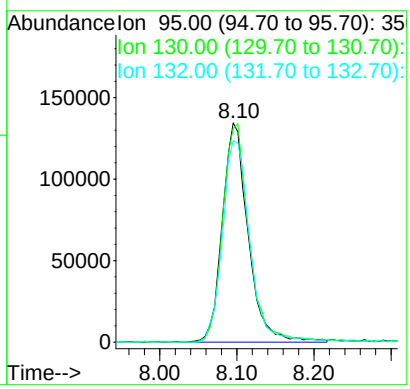




#49
trichloroete
Concen: 21.59 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356214.D
Acq: 14 Nov 2019 20:13

Tgt Ion: 95 Resp: 313253

Ion	Ratio	Lower	Upper
95	100		
130	101.4	80.5	120.5
132	97.3	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356215.D Vial: 17
Acq On : 14 Nov 2019 20:43 Operator: RLD-DGS
Sample : 166500,356215,200 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:54 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1020588	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	795443	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	412313	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	257626	19.711	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.21	102	73969	20.513	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 103 %			
61) SURRd8Tolule	9.63	98	987879	19.872	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.17	95	378401	20.293	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.92	64	2303	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	6760	0.4678	ug/L	98
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.24	96	7015	0.4648	ug/L	94
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356215.D Vial: 17
Acq On : 14 Nov 2019 20:43 Operator: RLD-DGS
Sample : 166500,356215,200 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:54 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	385451	27.1660	ug/L	99
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.54	91	2186	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	15.35	91	2051	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356215.D Vial: 17
Acq On : 14 Nov 2019 20:43 Operator: RLD-DGS
Sample : 166500,356215,200 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:54 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

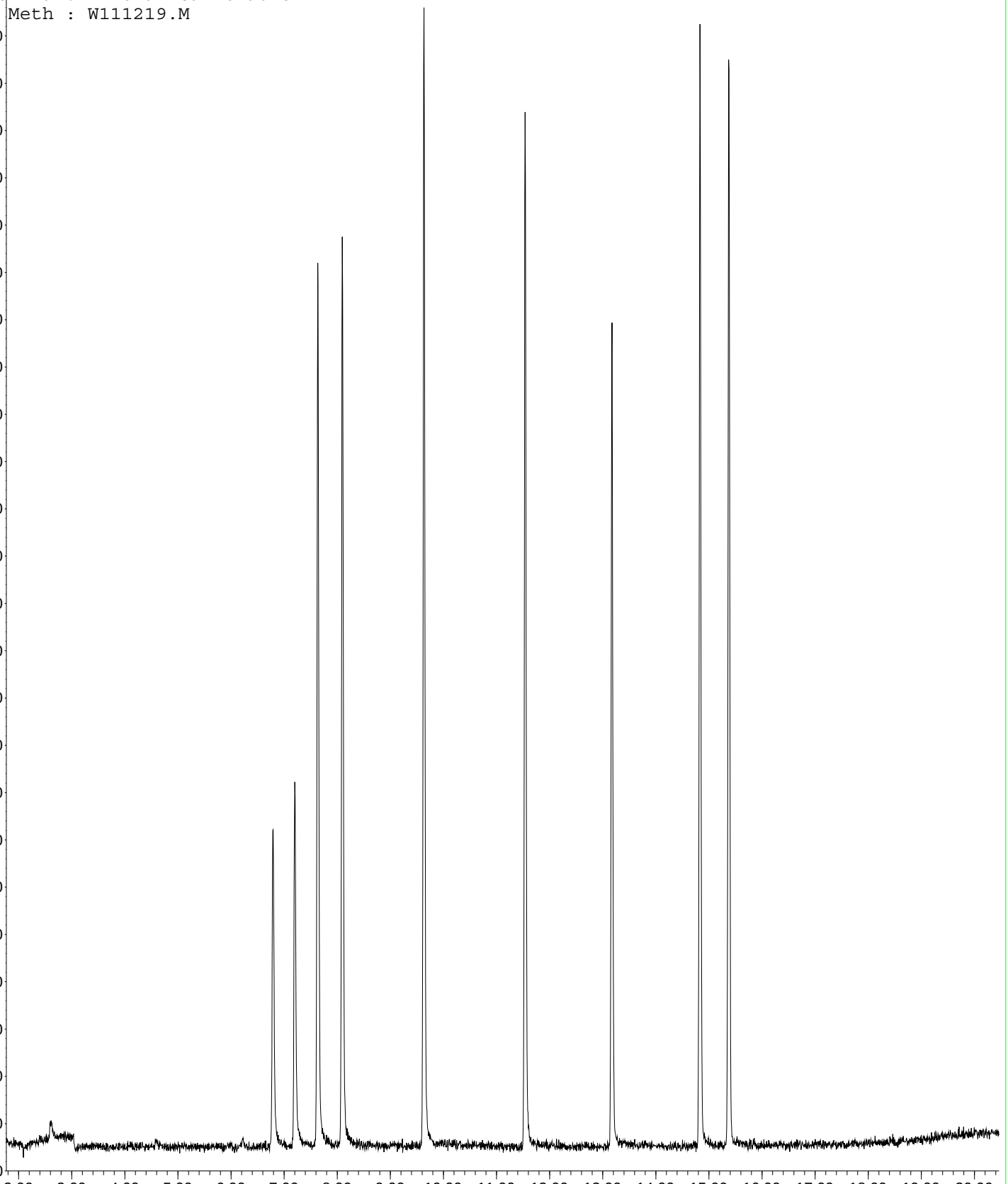
(#) = qualifier out of range (m) = manual integration

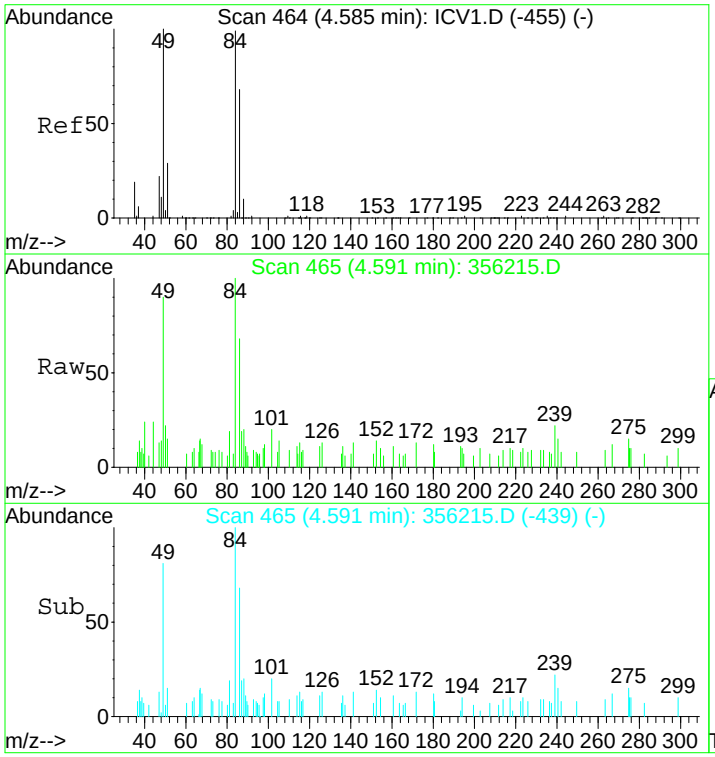
Abundance Quantitation Report TIC: 356215.D

Data File : C:\INSTARCH\DATA\NOV1419\356215.D Vial: 17
Acq On : 14 Nov 2019 20:43 Operator: RLD-DGS
Sample : 166500,356215,200 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:54 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

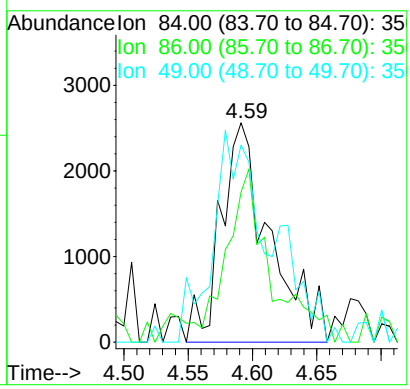


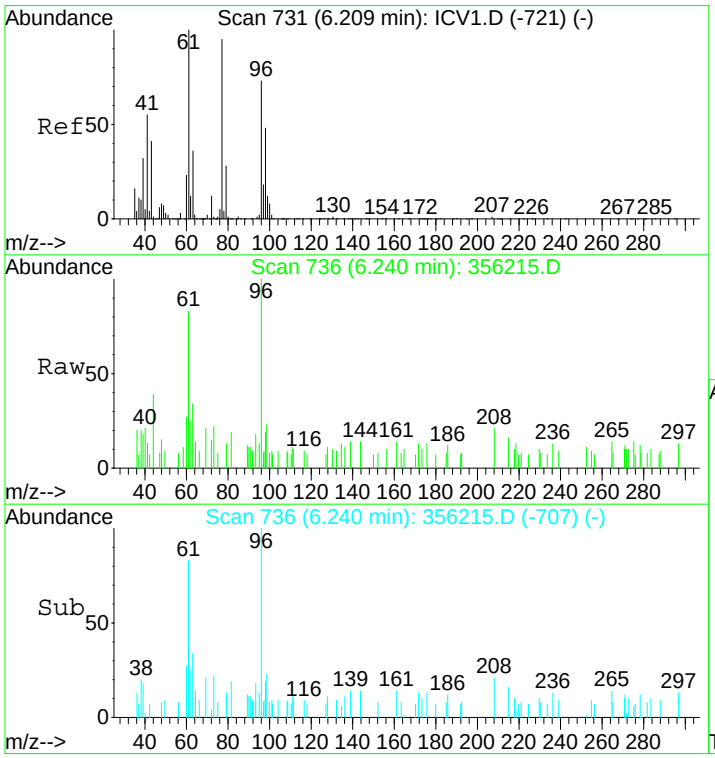


#20
Methylchlorid
Concen: 0.47 ug/L
RT: 4.59 min Scan# 465
Delta R.T. 0.01 min
Lab File: 356215.D
Acq: 14 Nov 2019 20:43

Tgt Ion: 84 Resp: 6760

Ion	Ratio	Lower	Upper
84	100		
86	70.4	49.1	89.1
49	114.5	97.6	137.6

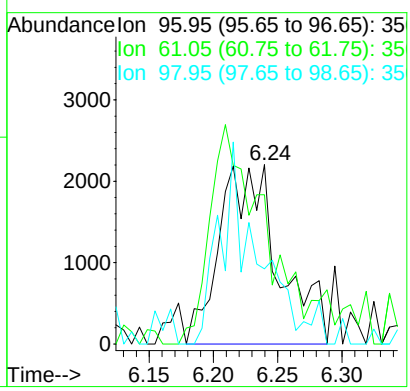


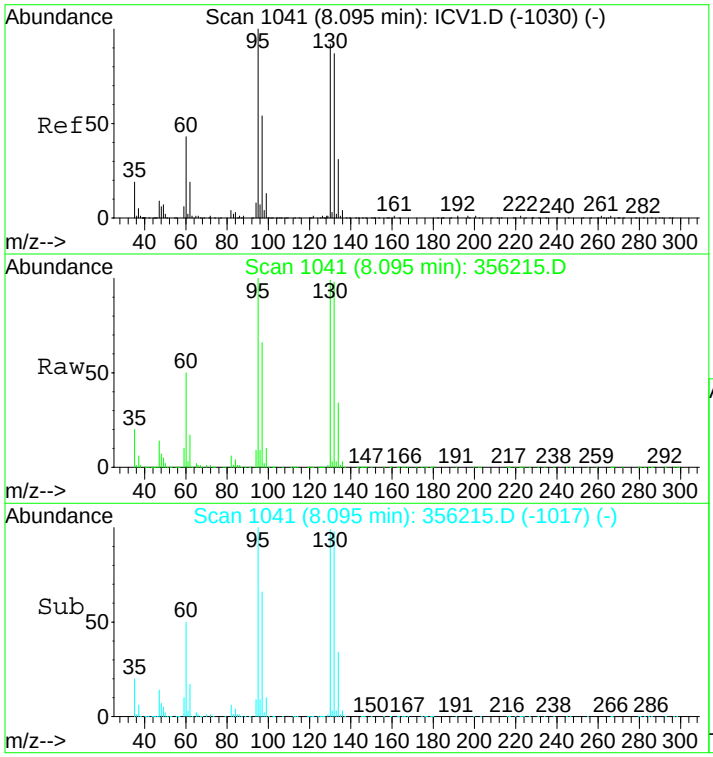


#32
c12dichlorte
Concen: 0.46 ug/L
RT: 6.24 min Scan# 736
Delta R.T. 0.02 min
Lab File: 356215.D
Acq: 14 Nov 2019 20:43

Tgt Ion: 96 Resp: 7015

Ion	Ratio	Lower	Upper
96	100		
61	129.0	114.3	154.3
98	73.6	46.4	86.4

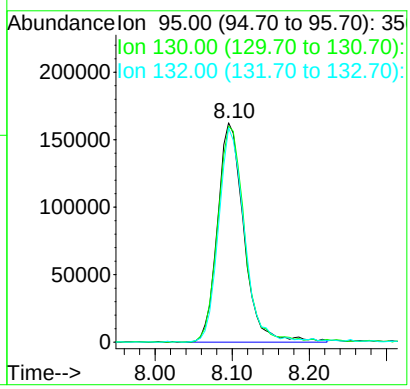




#49
trichloroete
Concen: 27.17 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356215.D
Acq: 14 Nov 2019 20:43

Tgt Ion: 95 Resp: 385451

Ion	Ratio	Lower	Upper
95	100		
130	100.6	80.5	120.5
132	96.0	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356216.D Vial: 18
Acq On : 14 Nov 2019 21:12 Operator: RLD-DGS
Sample : 166500,356216,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:57 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1027105	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	791784	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	411787	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	255402	19.417	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 97 %			
45) SURR12DCAd4	7.20	102	75687	20.856	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 104 %			
61) SURRd8Tolule	9.63	98	988857	19.766	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.17	95	369478	19.840	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 99 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	5968	0.4103	ug/L	89
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.22	96	24766	1.6307	ug/L	98
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356216.D Vial: 18
Acq On : 14 Nov 2019 21:12 Operator: RLD-DGS
Sample : 166500,356216,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:57 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	1017640	71.2667	ug/L	99
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	0.00	91	0	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356216.D Vial: 18
Acq On : 14 Nov 2019 21:12 Operator: RLD-DGS
Sample : 166500,356216,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:57 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

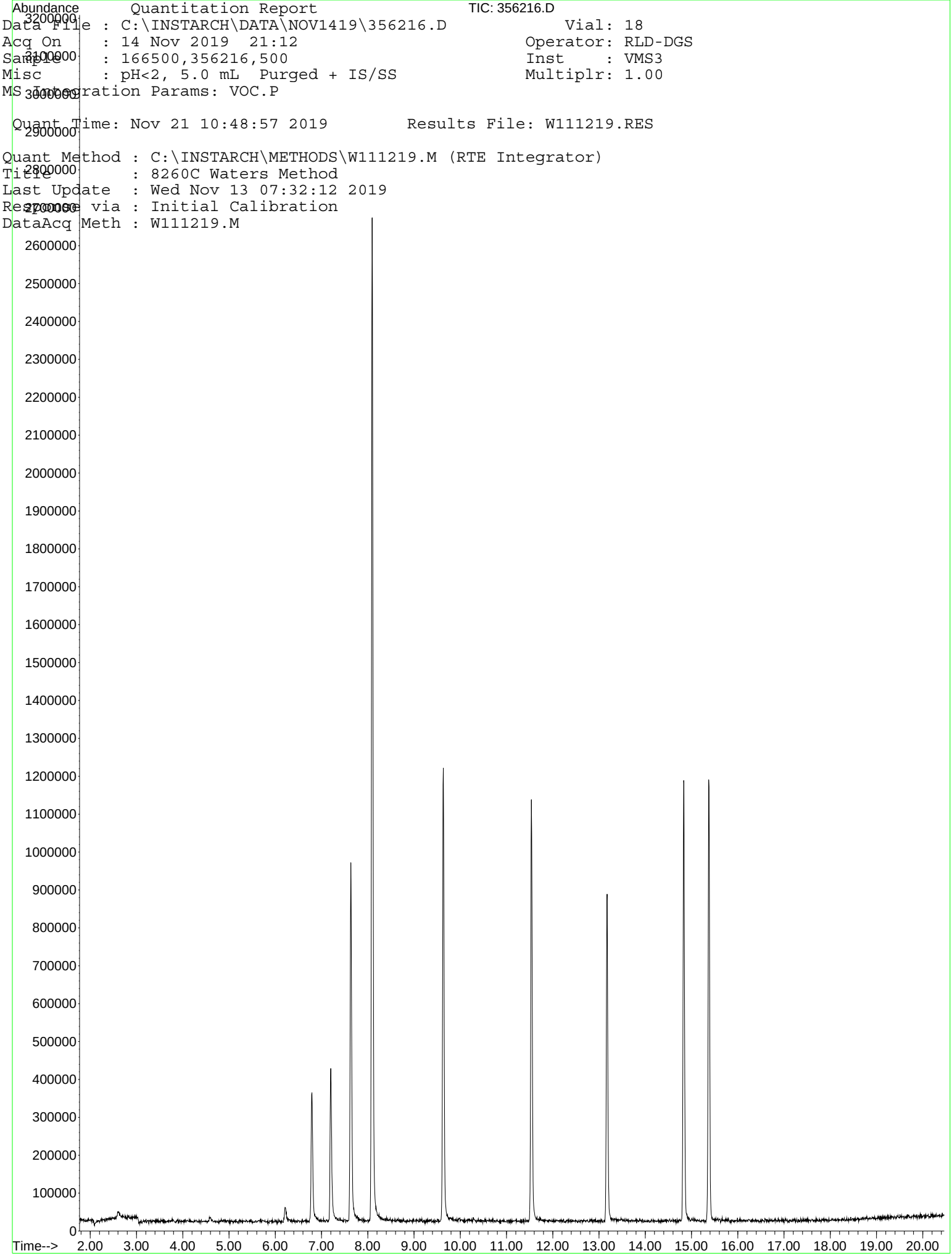
(#) = qualifier out of range (m) = manual integration

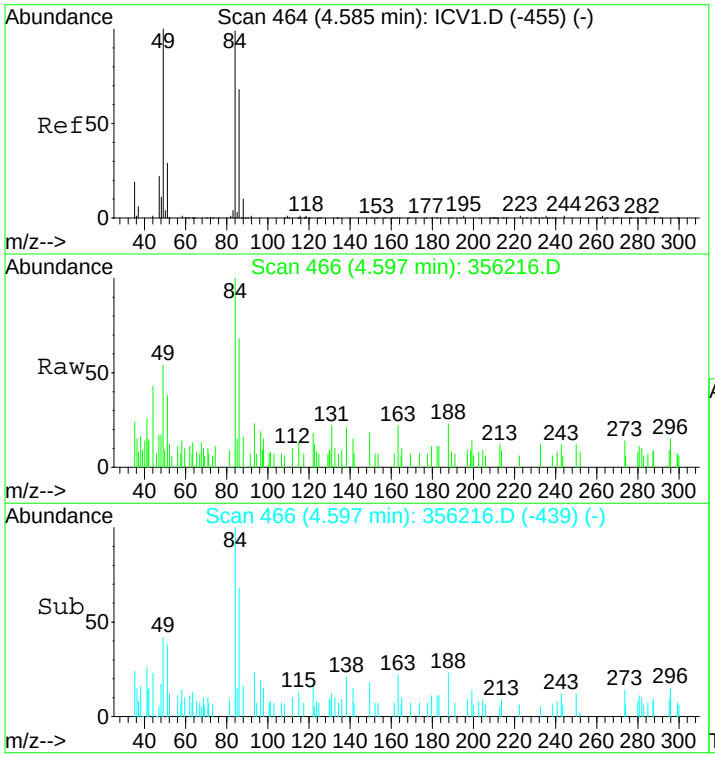
Abundance Quantitation Report TIC: 356216.D

Data File : C:\INSTARCH\DATA\NOV1419\356216.D Vial: 18
Acq On : 14 Nov 2019 21:12 Operator: RLD-DGS
Sample : 166500,356216,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:57 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

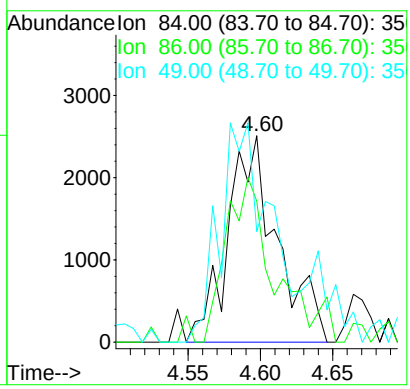


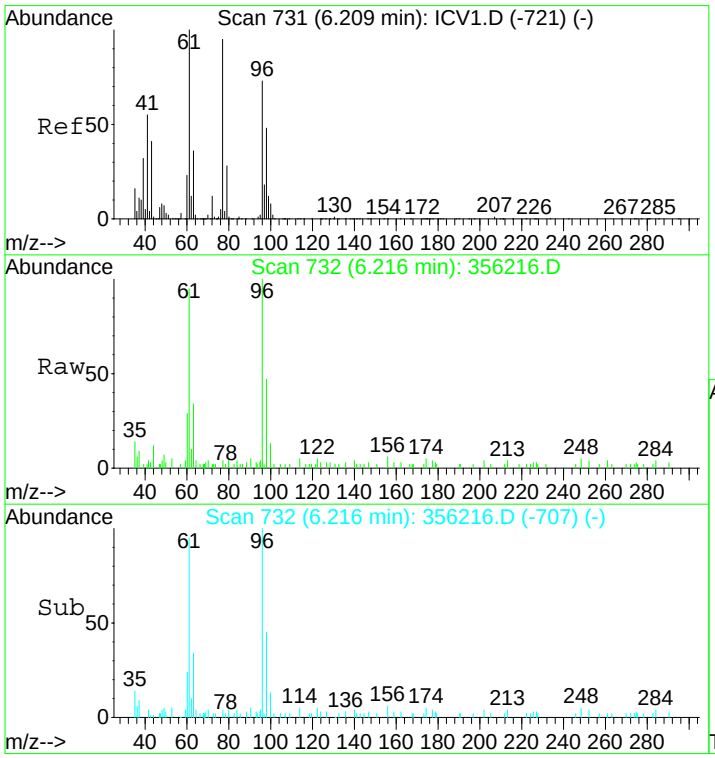


#20
Methylchlorid
Concen: 0.41 ug/L
RT: 4.60 min Scan# 466
Delta R.T. 0.01 min
Lab File: 356216.D
Acq: 14 Nov 2019 21:12

Tgt Ion: 84 Resp: 5968

Ion	Ratio	Lower	Upper
84	100		
86	79.0	49.1	89.1
49	128.5	97.6	137.6

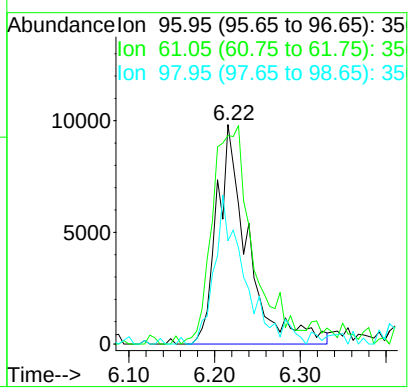


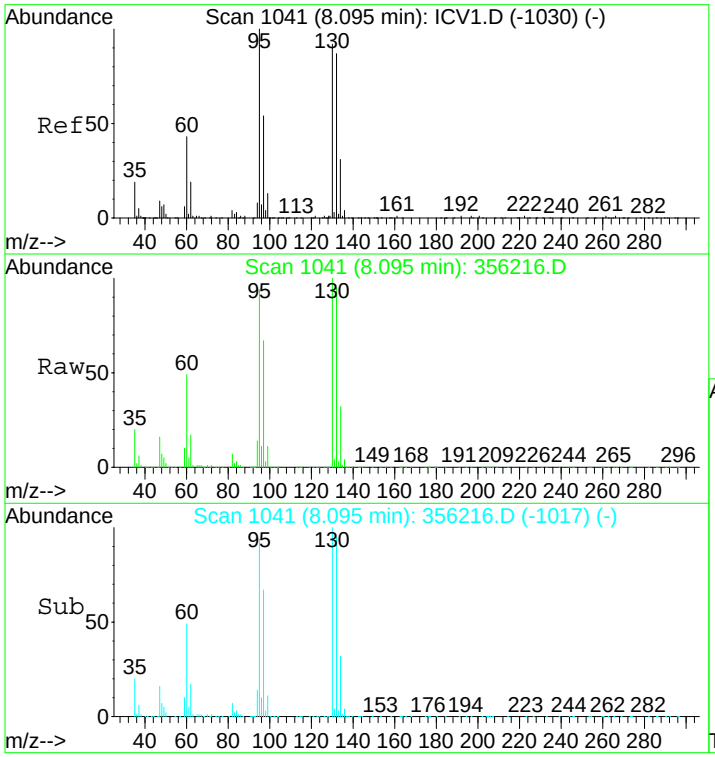


#32
c12dichlorte
Concen: 1.63 ug/L
RT: 6.22 min Scan# 732
Delta R.T. 0.00 min
Lab File: 356216.D
Acq: 14 Nov 2019 21:12

Tgt Ion: 96 Resp: 24766

Ion	Ratio	Lower	Upper
96	100		
61	134.5	114.3	154.3
98	62.1	46.4	86.4

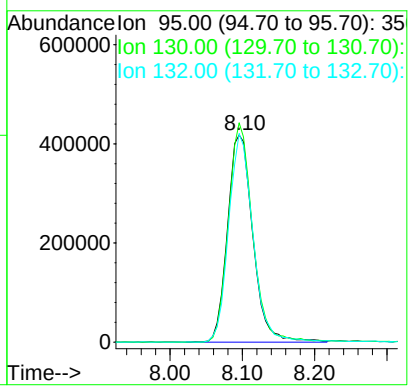




#49
trichloroete
Concen: 71.27 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356216.D
Acq: 14 Nov 2019 21:12

Tgt Ion: 95 Resp: 1017640

Ion	Ratio	Lower	Upper
95	100		
130	101.5	80.5	120.5
132	96.5	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356217.D Vial: 19
Acq On : 14 Nov 2019 21:43 Operator: RLD-DGS
Sample : 166500,356217,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1038858	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	784247	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	414865	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	264985	19.918	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.20	102	75004	20.434	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 102	%		
61) SURRd8Tolule	9.63	98	987402	19.513	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 98	%		
83) SURR4BrFBenz	13.18	95	373687	19.917	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	2.25	62	3143	0.1931	ug/L #	1
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.80	64	2381	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	5974	0.4061	ug/L	90
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.22	96	38838	2.5283	ug/L	87
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356217.D Vial: 19
Acq On : 14 Nov 2019 21:43 Operator: RLD-DGS
Sample : 166500,356217,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	512545	35.4881	ug/L	99
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.53	91	2389	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356217.D Vial: 19
Acq On : 14 Nov 2019 21:43 Operator: RLD-DGS
Sample : 166500,356217,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

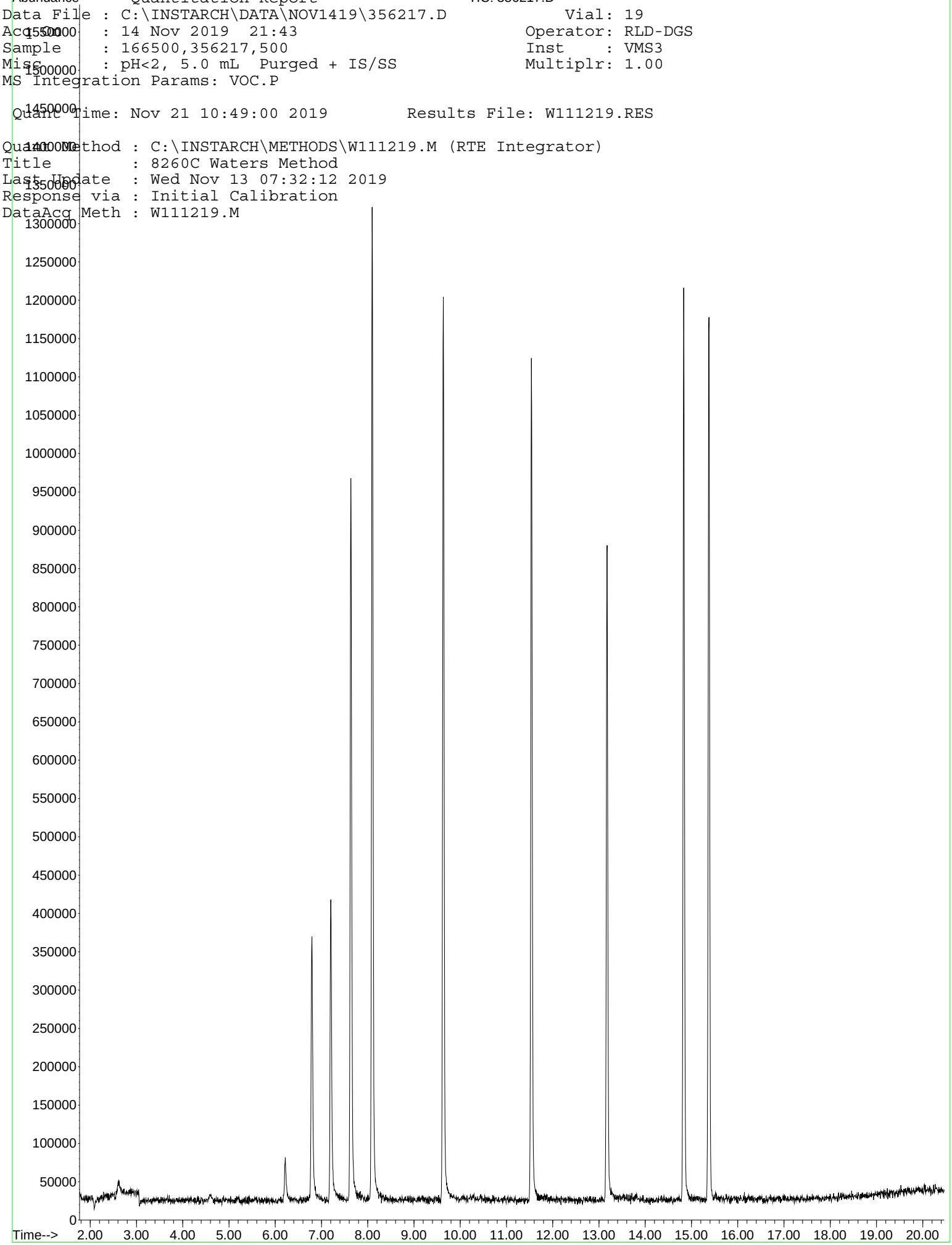
(#) = qualifier out of range (m) = manual integration

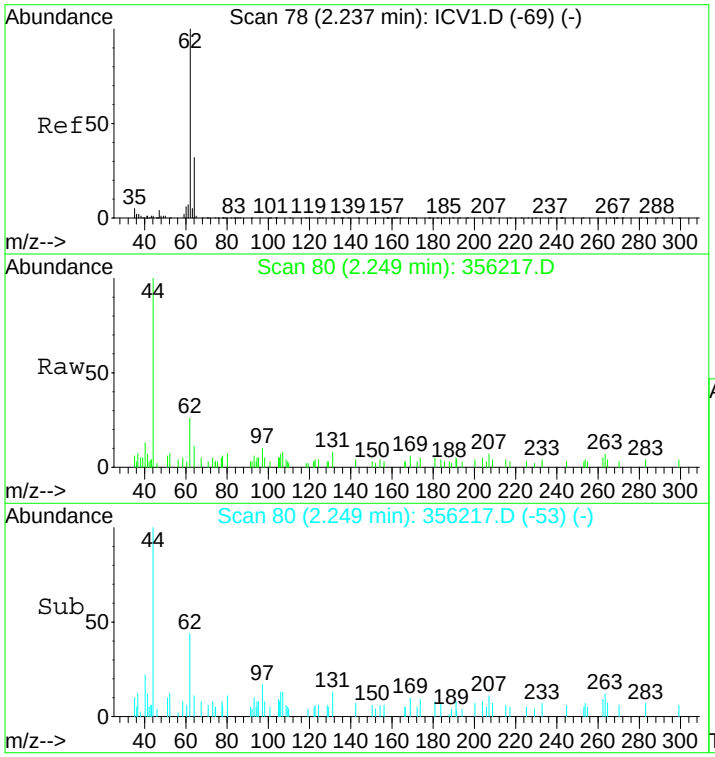
Abundance Quantitation Report TIC: 356217.D

Data File : C:\INSTARCH\DATA\NOV1419\356217.D Vial: 19
Acq On : 14 Nov 2019 21:43 Operator: RLD-DGS
Sample : 166500,356217,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

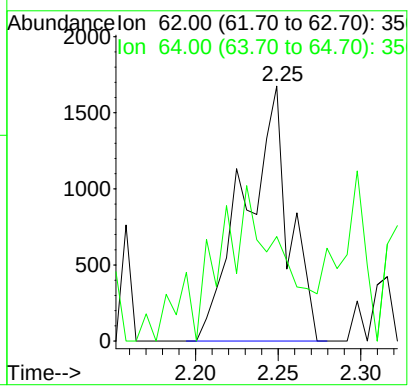


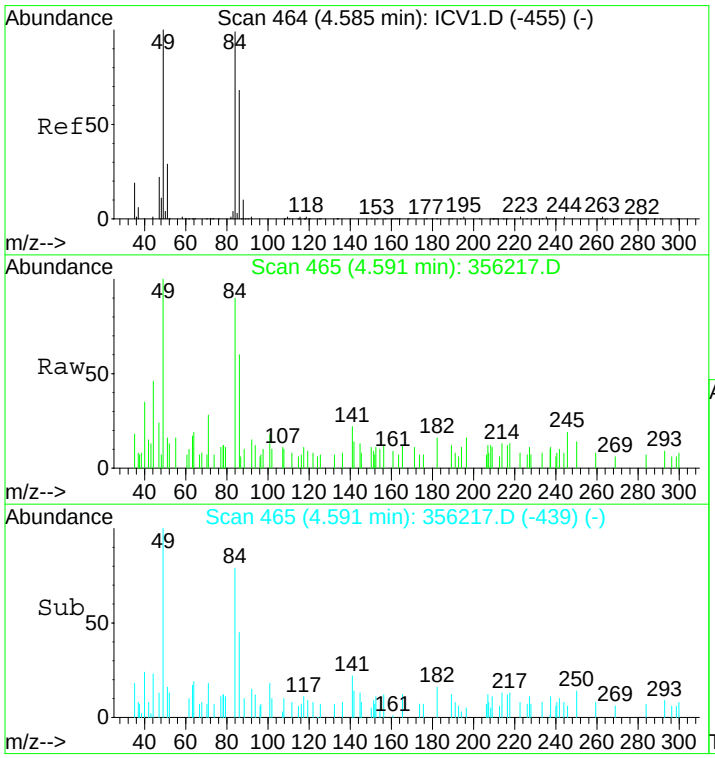


#4
VinylChloride
Concen: 0.19 ug/L
RT: 2.25 min Scan# 80
Delta R.T. 0.01 min
Lab File: 356217.D
Acq: 14 Nov 2019 21:43

Tgt Ion: 62 Resp: 3143

Ion	Ratio	Lower	Upper
62	100		
64	92.6	15.2	55.2#

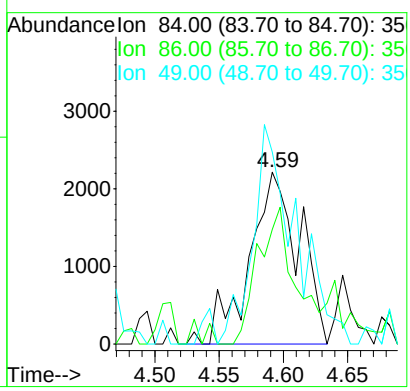


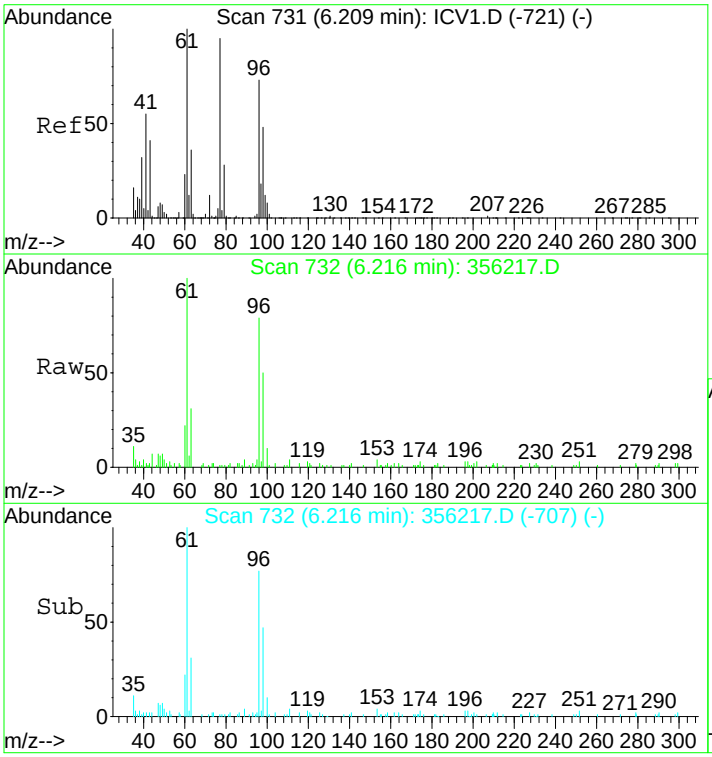


#20
Methylchloride
Concen: 0.41 ug/L
RT: 4.59 min Scan# 465
Delta R.T. 0.01 min
Lab File: 356217.D
Acq: 14 Nov 2019 21:43

Tgt Ion: 84 Resp: 5974

Ion	Ratio	Lower	Upper
84	100		
86	80.7	49.1	89.1
49	109.4	97.6	137.6

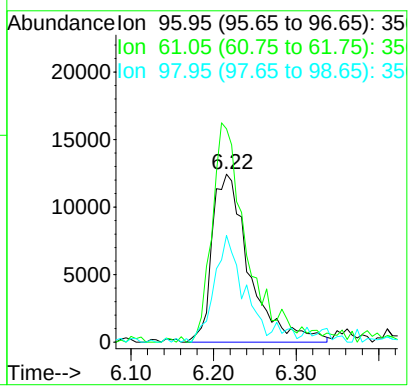


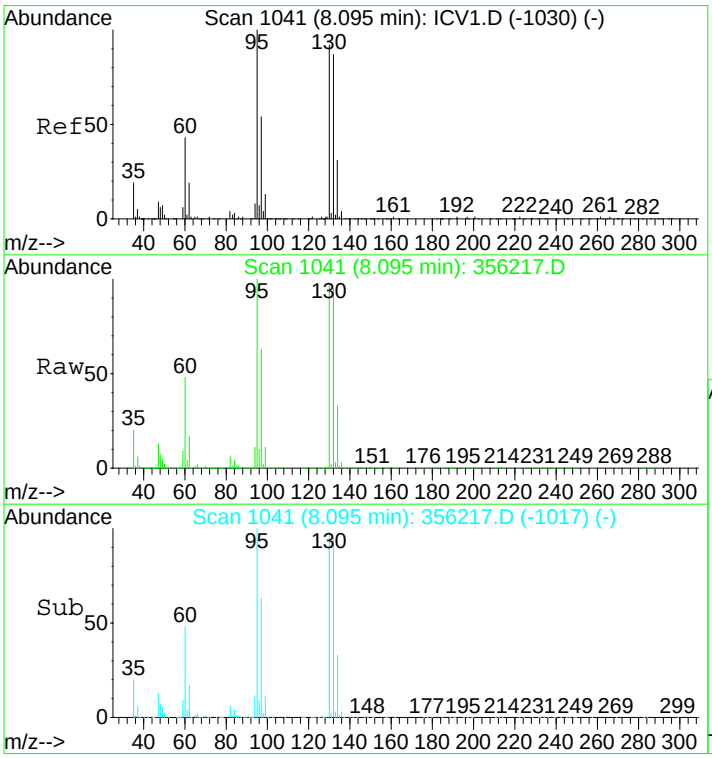


#32
c12dichlorte
Concen: 2.53 ug/L
RT: 6.22 min Scan# 732
Delta R.T. 0.00 min
Lab File: 356217.D
Acq: 14 Nov 2019 21:43

Tgt Ion: 96 Resp: 38838

Ion	Ratio	Lower	Upper
96	100		
61	122.7	114.3	154.3
98	50.6	46.4	86.4

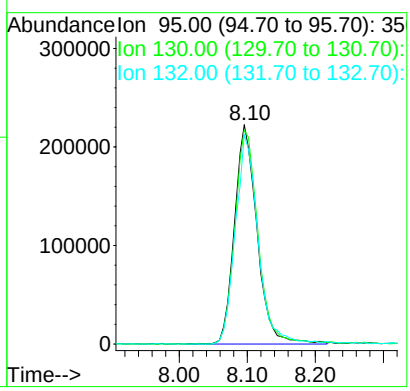




#49
trichloroete
Concen: 35.49 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356217.D
Acq: 14 Nov 2019 21:43

Tgt Ion: 95 Resp: 512545

Ion	Ratio	Lower	Upper
95	100		
130	100.5	80.5	120.5
132	96.2	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356221.D Vial: 20
Acq On : 14 Nov 2019 22:13 Operator: RLD-DGS
Sample : 166500,356221,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:06 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1026824	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	788143	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	407650	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	252227	19.181	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 96 %			
45) SURR12DCAd4	7.20	102	74241	20.463	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 102 %			
61) SURRd8Tolule	9.63	98	979721	19.588	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 98 %			
83) SURR4BrFBenz	13.17	95	381111	20.672	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 103 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.74	64	2176	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	2901	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.21	96	46804	3.0826	ug/L	91
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356221.D Vial: 20
Acq On : 14 Nov 2019 22:13 Operator: RLD-DGS
Sample : 166500,356221,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:06 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	628736	44.0433	ug/L	99
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.54	91	2406	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	15.37	91	2575	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356221.D Vial: 20
Acq On : 14 Nov 2019 22:13 Operator: RLD-DGS
Sample : 166500,356221,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:06 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

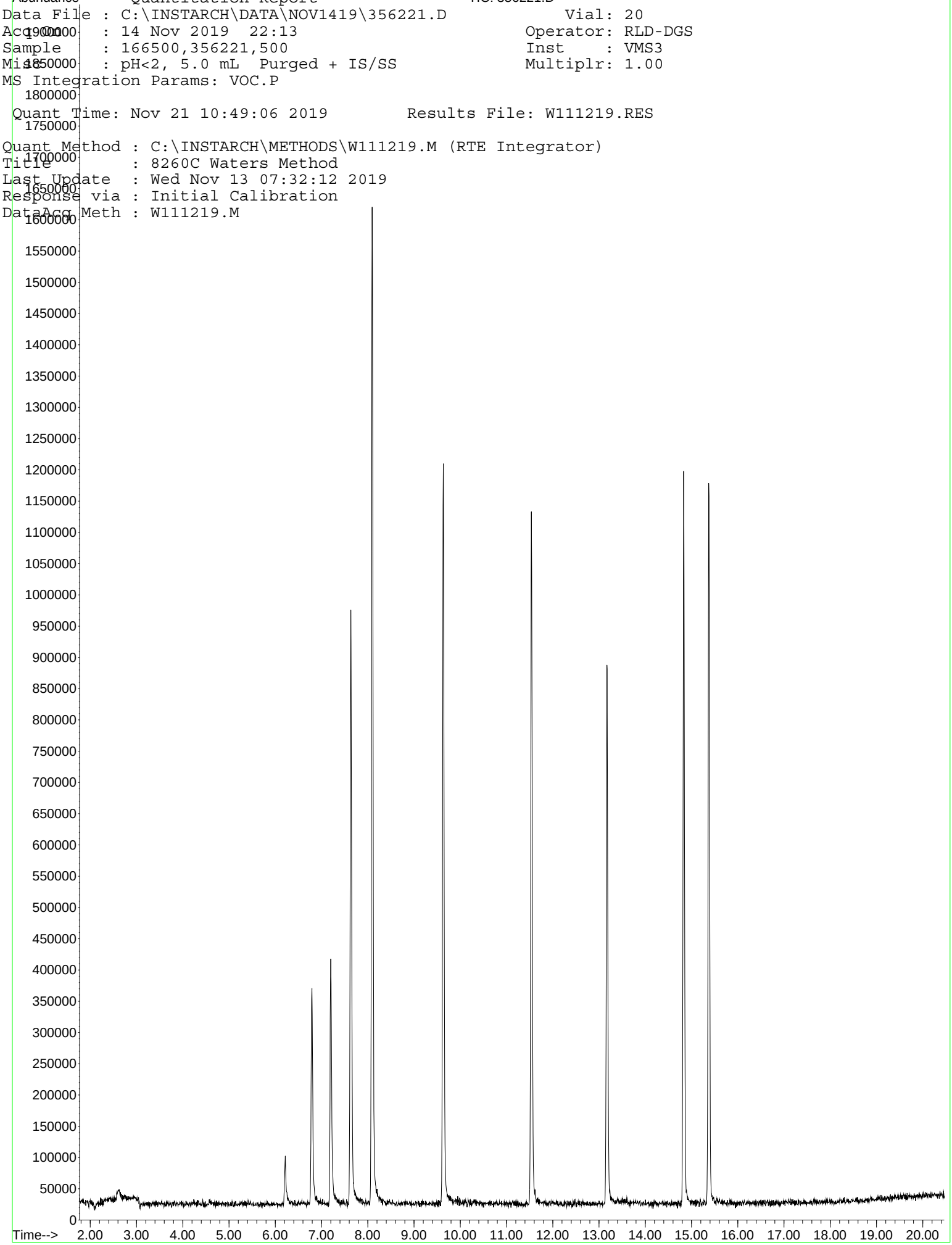
(#) = qualifier out of range (m) = manual integration

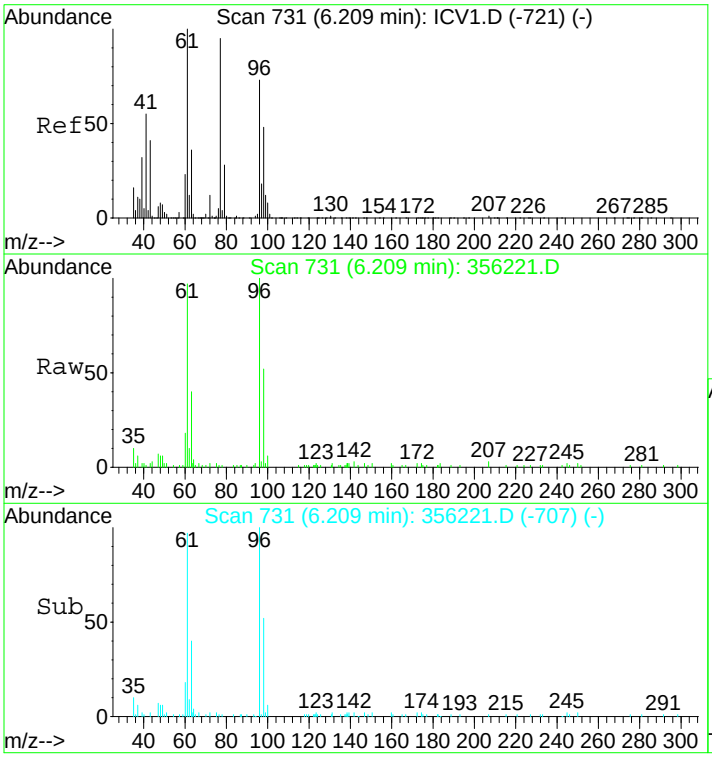
Quantitation Report (TIC: 356221.D)

Data File : C:\INSTARCH\DATA\NOV1419\356221.D Vial: 20
Acq On : 14 Nov 2019 22:13 Operator: RLD-DGS
Sample : 166500,356221,500 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:06 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

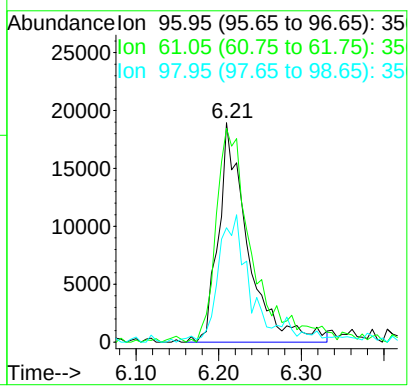


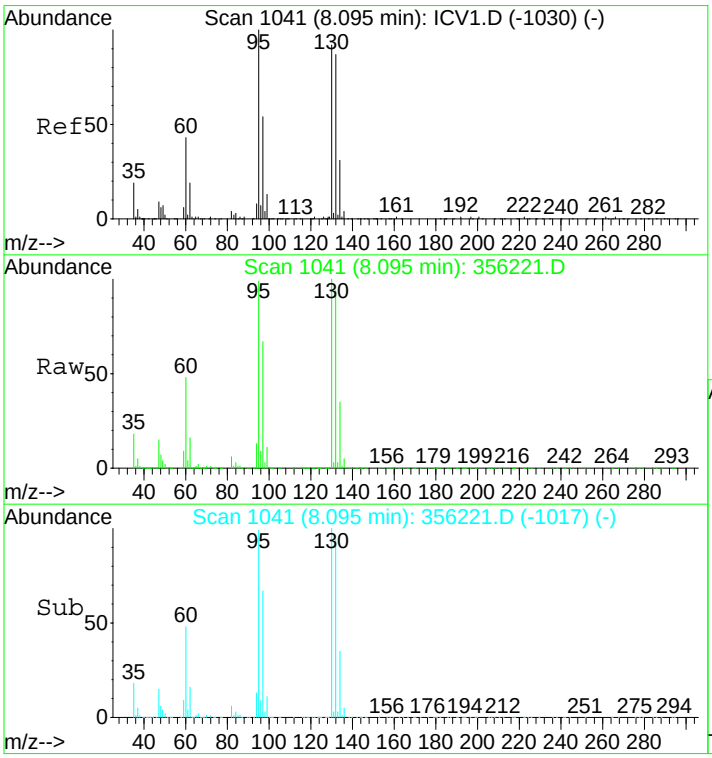


#32
c12dichlorte
Concen: 3.08 ug/L
RT: 6.21 min Scan# 731
Delta R.T. -0.01 min
Lab File: 356221.D
Acq: 14 Nov 2019 22:13

Tgt Ion: 96 Resp: 46804

Ion	Ratio	Lower	Upper
96	100		
61	118.7	114.3	154.3
98	66.5	46.4	86.4

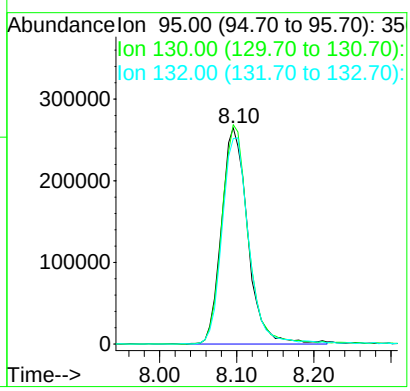




#49
trichloroete
Concen: 44.04 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356221.D
Acq: 14 Nov 2019 22:13

Tgt Ion: 95 Resp: 628736

Ion	Ratio	Lower	Upper
95	100		
130	100.8	80.5	120.5
132	96.6	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356224.D Vial: 21
Acq On : 14 Nov 2019 22:43 Operator: RLD-DGS
Sample : 166500,356224,10 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:13 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1017023	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	795792	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	404001	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	259977	19.961	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100 %			
45) SURR12DCAd4	7.20	102	72036	20.047	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 100 %			
61) SURRd8Tolule	9.63	98	986748	19.919	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100 %			
83) SURR4BrFBenz	13.17	95	376925	20.630	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 103 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.73	94	2172	N.D.		
6) Chloroethane	2.88	64	4165	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.05	43	5210	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	8813	0.6120	ug/L	85
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.22	96	19364	1.2876	ug/L #	80
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356224.D Vial: 21
Acq On : 14 Nov 2019 22:43 Operator: RLD-DGS
Sample : 166500,356224,10 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:13 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	271576	19.2074	ug/L	98
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	0.00	91	0	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	14.82	119	5344	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356224.D Vial: 21
Acq On : 14 Nov 2019 22:43 Operator: RLD-DGS
Sample : 166500,356224,10 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:13 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

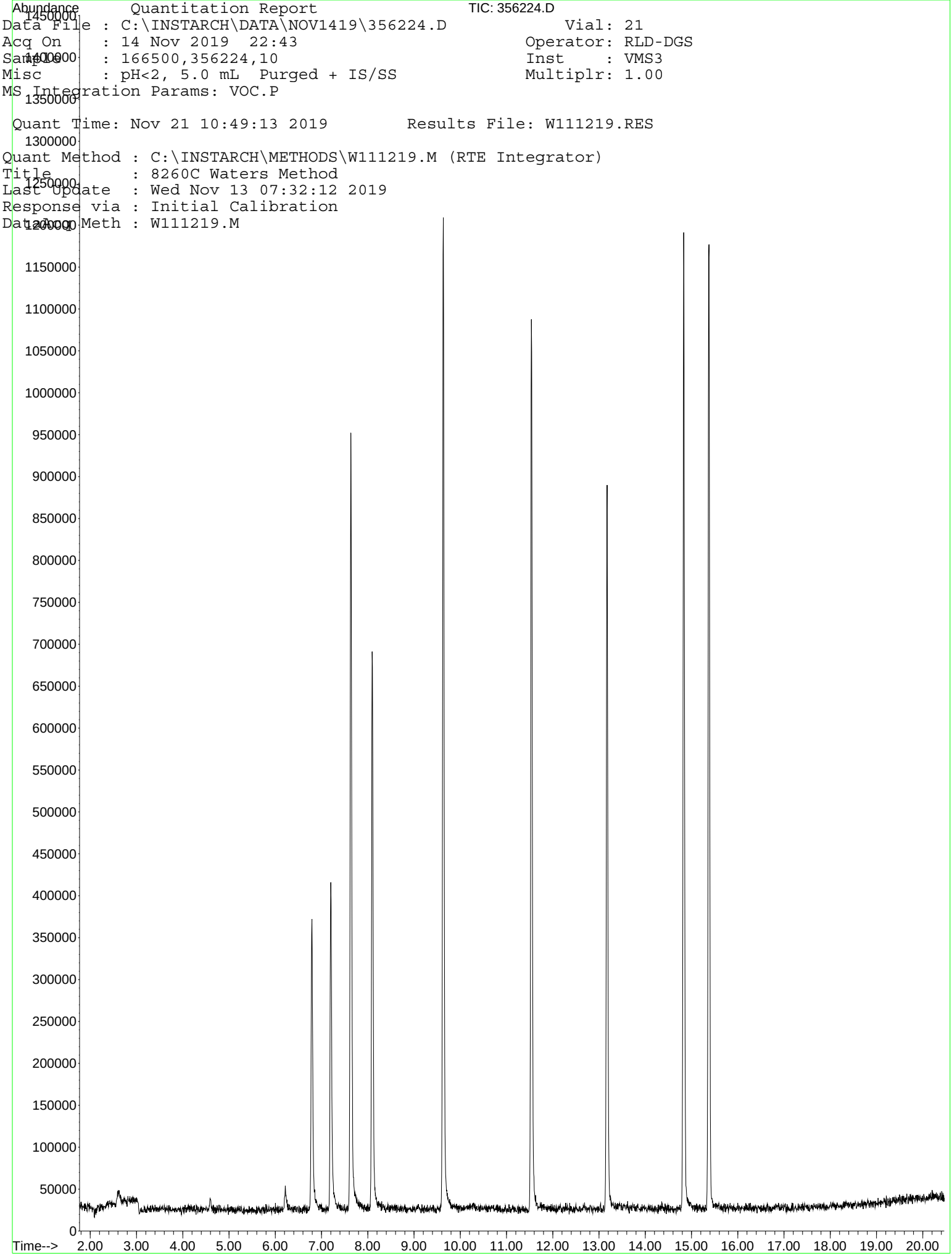
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

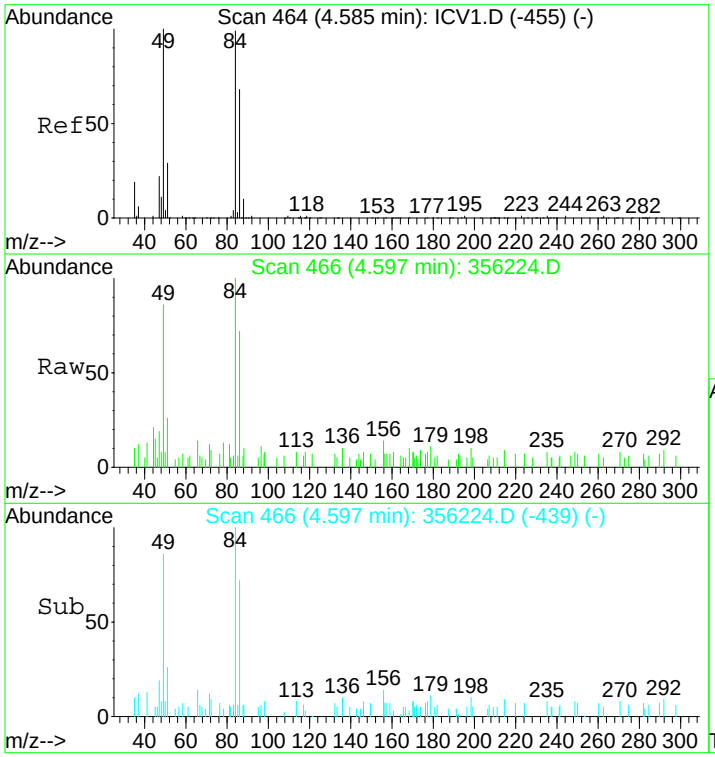
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1419\356224.D Vial: 21
Acq On : 14 Nov 2019 22:43 Operator: RLD-DGS
Sample : 166500,356224,10 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:13 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
Data Acq Meth : W111219.M

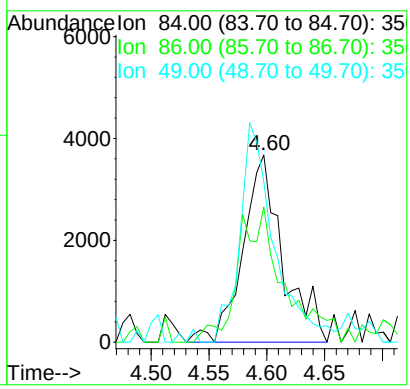


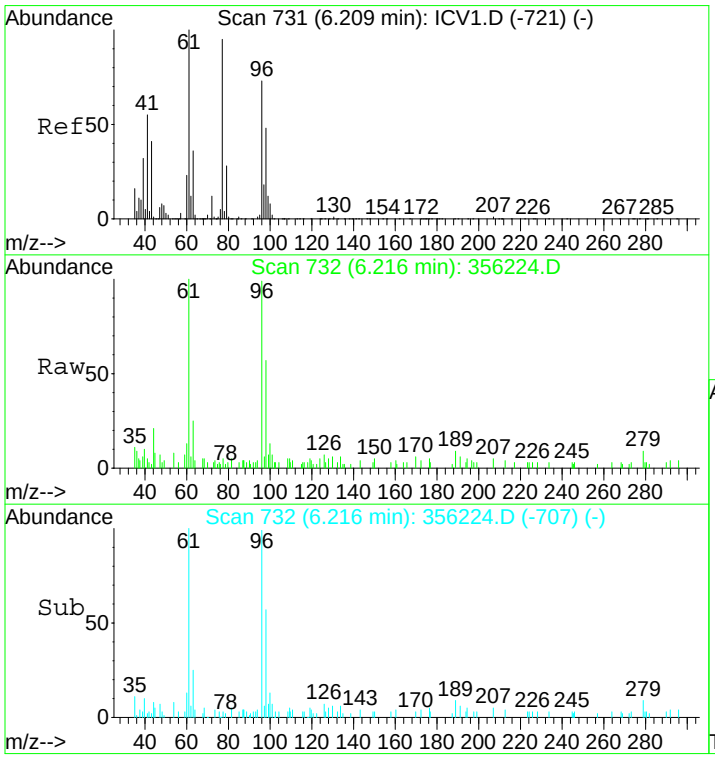


#20
Methylchlorid
Concen: 0.61 ug/L
RT: 4.60 min Scan# 466
Delta R.T. 0.01 min
Lab File: 356224.D
Acq: 14 Nov 2019 22:43

Tgt Ion: 84 Resp: 8813

Ion	Ratio	Lower	Upper
84	100		
86	83.3	49.1	89.1
49	101.9	97.6	137.6

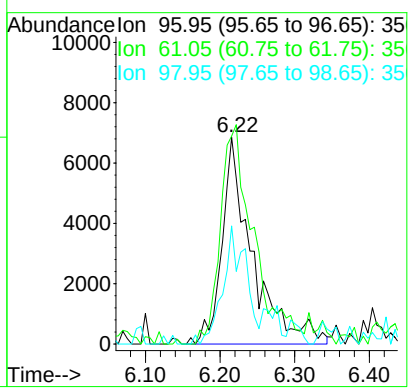


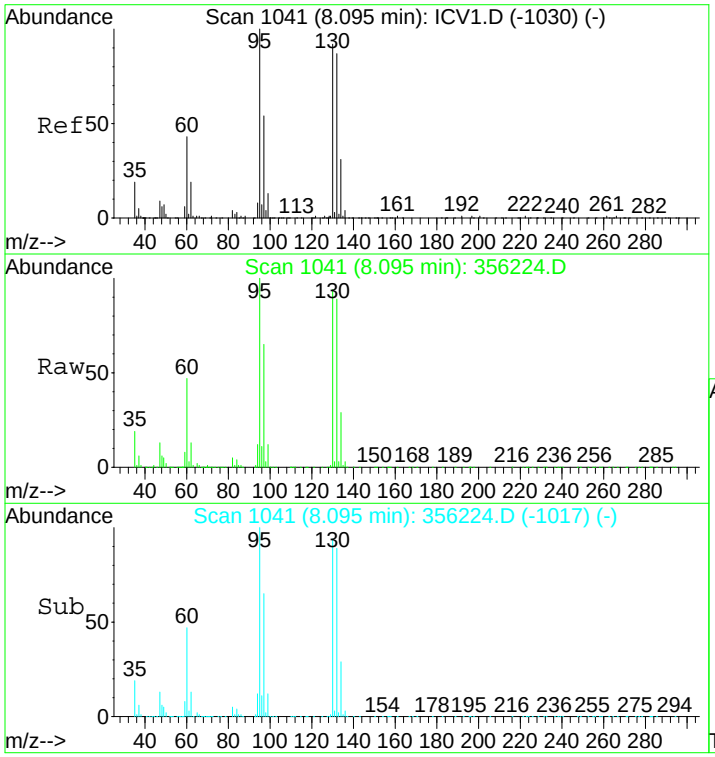


#32
c12dichlorte
Concen: 1.29 ug/L
RT: 6.22 min Scan# 732
Delta R.T. 0.00 min
Lab File: 356224.D
Acq: 14 Nov 2019 22:43

Tgt Ion: 96 Resp: 19364

Ion	Ratio	Lower	Upper
96	100		
61	115.8	114.3	154.3
98	43.1	46.4	86.4#

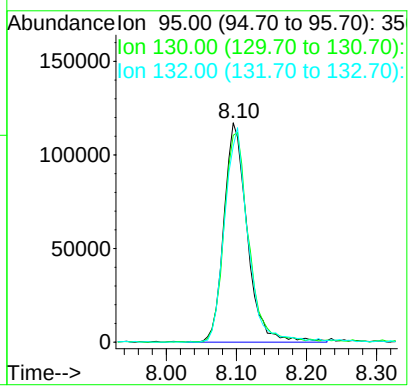




#49
trichloroete
Concen: 19.21 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356224.D
Acq: 14 Nov 2019 22:43

Tgt Ion: 95 Resp: 271576

Ion	Ratio	Lower	Upper
95	100		
130	100.6	80.5	120.5
132	98.2	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356229.D Vial: 30
Acq On : 15 Nov 2019 11:12 Operator: RLD-DGS
Sample : 166501,356229, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1018077	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	787156	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	406661	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	256766	19.694	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 98 %			
45) SURR12DCAd4	7.20	102	74459	20.700	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 103 %			
61) SURRd8Tolule	9.63	98	978026	19.722	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	383644	20.860	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 104 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.07	43	10066	4.2867	ug/L	82
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.22	76	2199	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	5042	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356229.D Vial: 30
Acq On : 15 Nov 2019 11:12 Operator: RLD-DGS
Sample : 166501,356229, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.53	91	2425	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.30	75	2836	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	14.82	119	2277	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356229.D Vial: 30
Acq On : 15 Nov 2019 11:12 Operator: RLD-DGS
Sample : 166501,356229, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

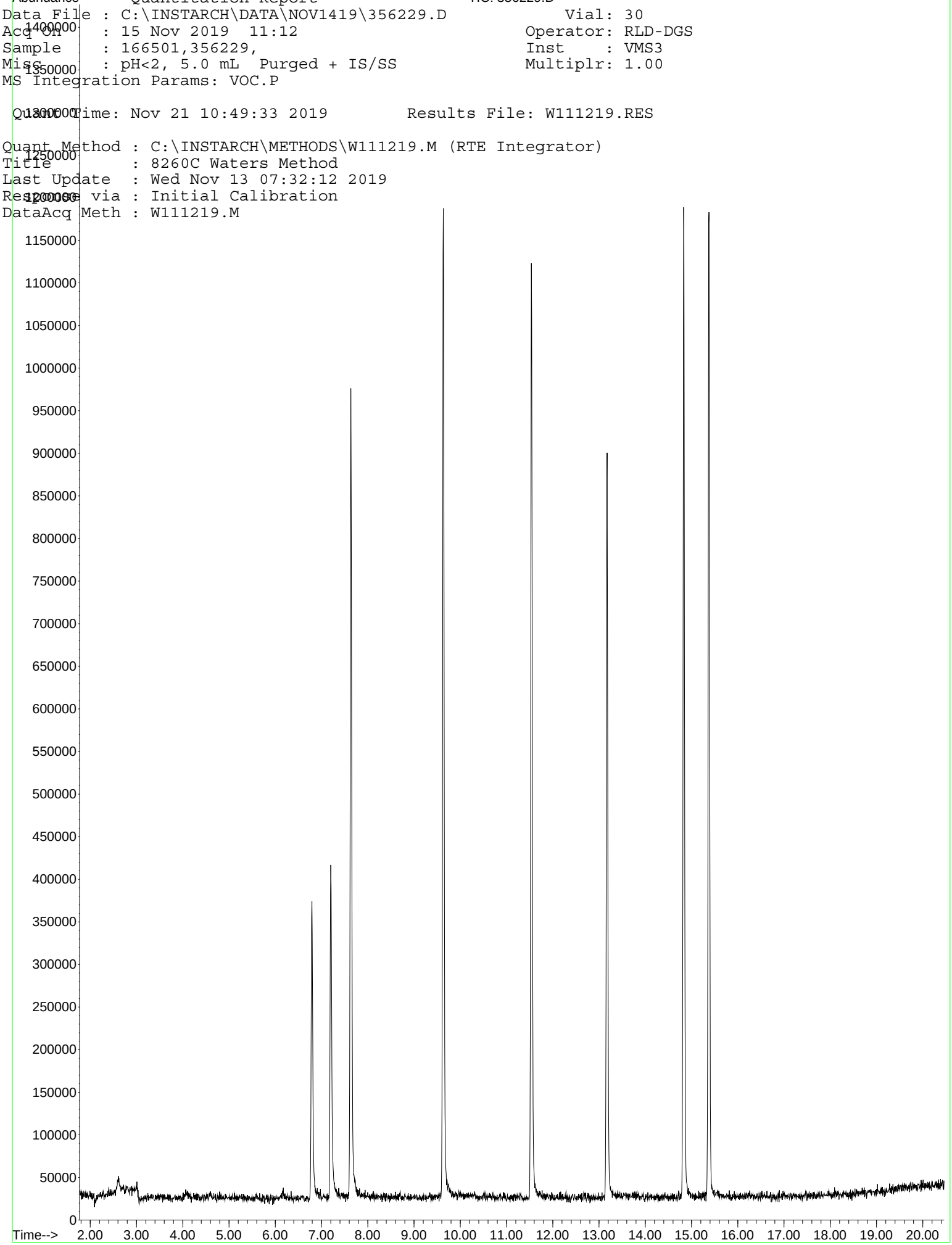
(#) = qualifier out of range (m) = manual integration

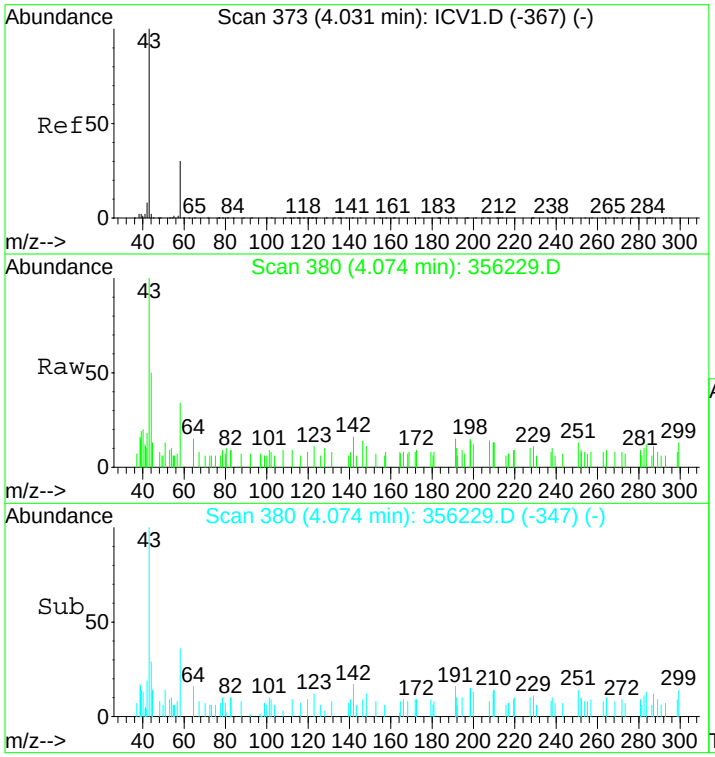
Abundance Quantitation Report TIC: 356229.D

Data File : C:\INSTARCH\DATA\NOV1419\356229.D Vial: 30
Acq On : 15 Nov 2019 11:12 Operator: RLD-DGS
Sample : 166501,356229, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

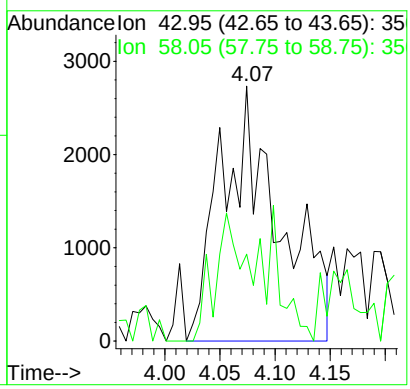




#15
Acetone
Concen: 4.29 ug/L
RT: 4.07 min Scan# 380
Delta R.T. 0.05 min
Lab File: 356229.D
Acq: 15 Nov 2019 11:12

Tgt Ion: 43 Resp: 10066

Ion	Ratio	Lower	Upper
43	100		
58	41.6	11.8	51.8



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356230.D Vial: 31
Acq On : 15 Nov 2019 11:42 Operator: RLD-DGS
Sample : 166501,356230, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:38 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1011055	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	806909	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	414585	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	255815	19.757	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	75655	21.178	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 106 %			
61) SURRd8Tolule	9.63	98	976898	19.836	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.17	95	379309	20.230	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.05	43	8198	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.21	76	2444	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.61	84	9154	0.6394	ug/L	85
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356230.D Vial: 31
Acq On : 15 Nov 2019 11:42 Operator: RLD-DGS
Sample : 166501,356230, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:38 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.53	91	2479	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356230.D Vial: 31
Acq On : 15 Nov 2019 11:42 Operator: RLD-DGS
Sample : 166501,356230, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:38 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

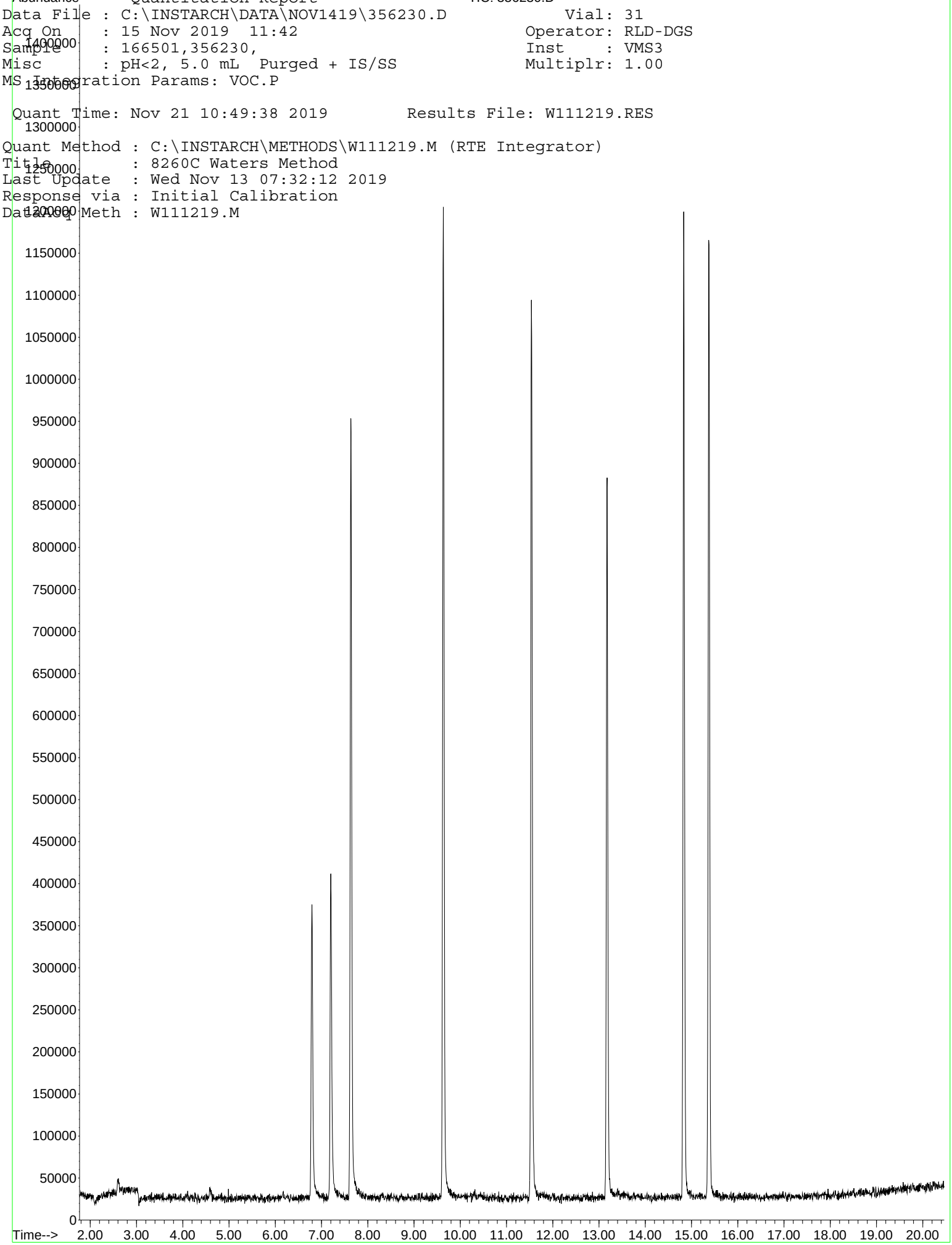
(#) = qualifier out of range (m) = manual integration

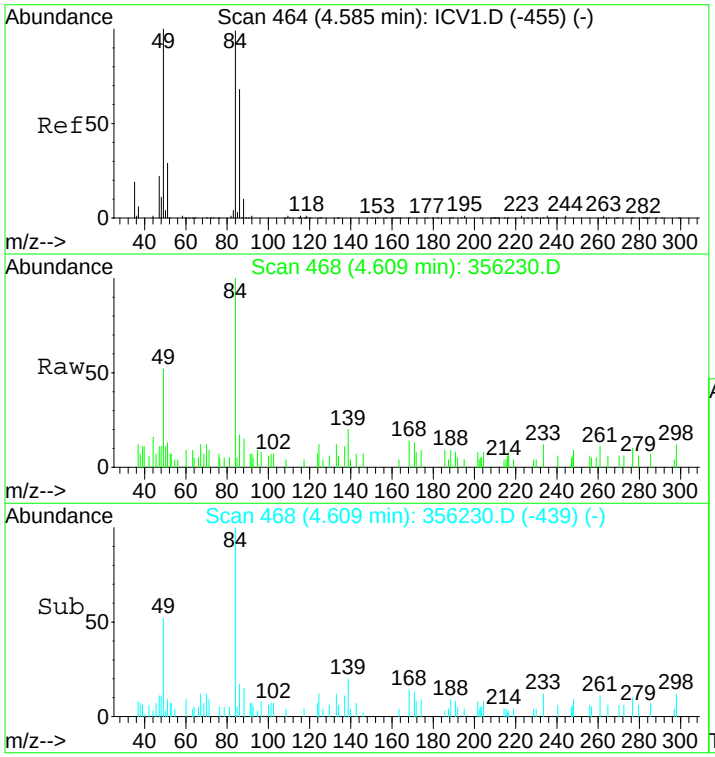
Quantitation Report (TIC: 356230.D)

Data File : C:\INSTARCH\DATA\NOV1419\356230.D Vial: 31
Acq On : 15 Nov 2019 11:42 Operator: RLD-DGS
Sample : 166501,356230, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:38 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

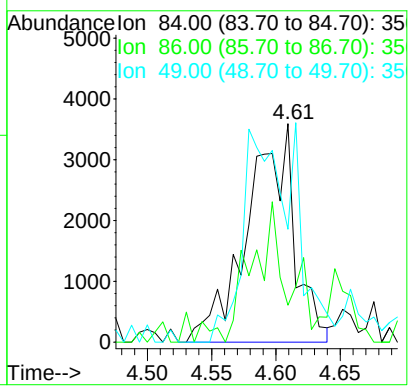




#20
Methylchlorid
Concen: 0.64 ug/L
RT: 4.61 min Scan# 468
Delta R.T. 0.02 min
Lab File: 356230.D
Acq: 15 Nov 2019 11:42

Tgt Ion: 84 Resp: 9154

Ion	Ratio	Lower	Upper
84	100		
86	51.1	49.1	89.1
49	105.3	97.6	137.6



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356225.D Vial: 32
Acq On : 15 Nov 2019 12:12 Operator: RLD-DGS
Sample : 166501,356225,5000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:17 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1023966	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	803224	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	418035	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	260859	19.893	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	74132	20.490	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 102 %			
61) SURRd8Tolule	9.63	98	986491	19.779	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.17	95	375014	19.836	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 99 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	2946	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.22	96	7591	0.5013	ug/L #	71
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356225.D Vial: 32
Acq On : 15 Nov 2019 12:12 Operator: RLD-DGS
Sample : 166501,356225,5000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:17 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	409333	28.7540	ug/L	98
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.54	91	2050	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	14.81	119	2192	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356225.D Vial: 32
Acq On : 15 Nov 2019 12:12 Operator: RLD-DGS
Sample : 166501,356225,5000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:17 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

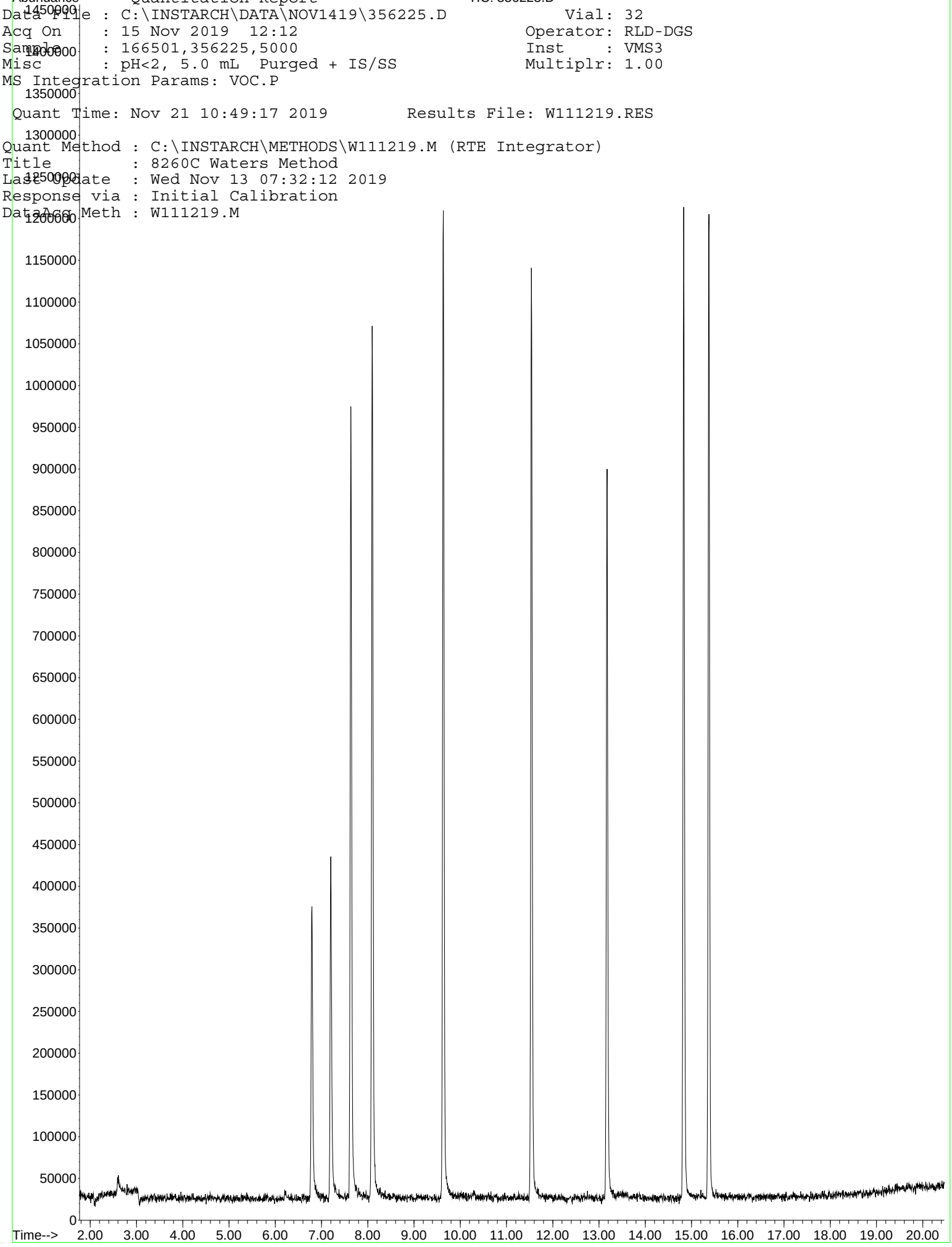
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

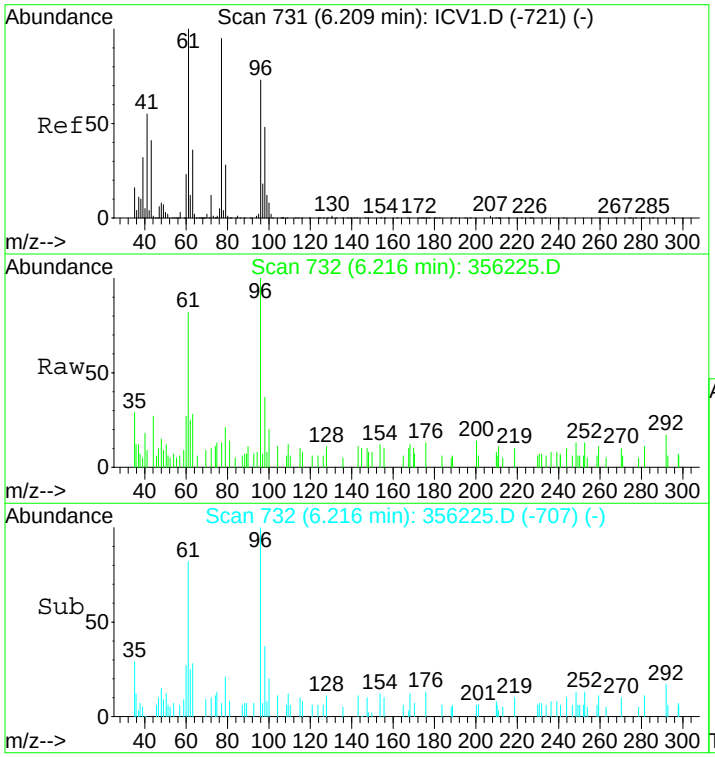
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1419\356225.D Vial: 32
Acq On : 15 Nov 2019 12:12 Operator: RLD-DGS
Sample : 166501,356225,5000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:17 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

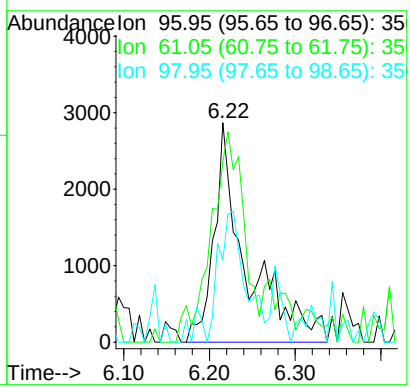


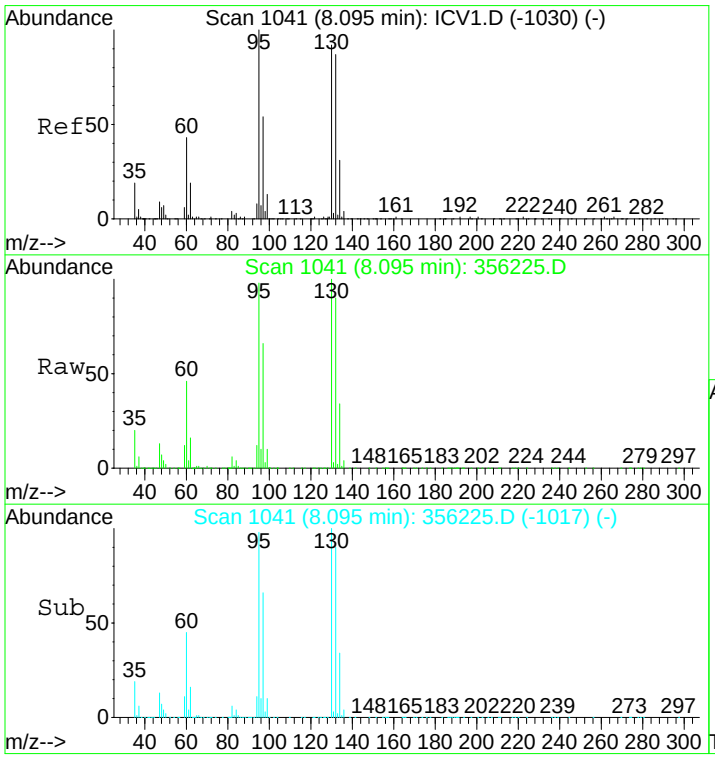


#32
c12dichlorte
Concen: 0.50 ug/L
RT: 6.22 min Scan# 732
Delta R.T. 0.00 min
Lab File: 356225.D
Acq: 15 Nov 2019 12:12

Tgt Ion: 96 Resp: 7591

Ion	Ratio	Lower	Upper
96	100		
61	96.3	114.3	154.3#
98	48.2	46.4	86.4

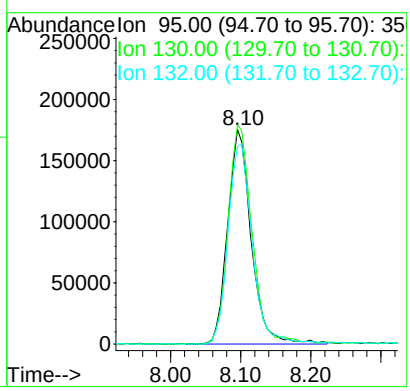




#49
trichloroete
Concen: 28.75 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356225.D
Acq: 15 Nov 2019 12:12

Tgt Ion: 95 Resp: 409333

Ion	Ratio	Lower	Upper
95	100		
130	103.9	80.5	120.5
132	95.5	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356227.D Vial: 33
Acq On : 15 Nov 2019 12:42 Operator: RLD-DGS
Sample : 166501,356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:20 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1014913	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	796229	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	406916	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	254968	19.617	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 98 %			
45) SURR12DCAd4	7.20	102	72488	20.215	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 101 %			
61) SURRd8Tolule	9.63	98	991834	20.063	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100 %			
83) SURR4BrFBenz	13.17	95	376790	20.474	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.86	64	3751	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	3193	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.21	96	15462	1.0303	ug/L	96
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356227.D Vial: 33
Acq On : 15 Nov 2019 12:42 Operator: RLD-DGS
Sample : 166501,356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:20 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	935632	66.3107	ug/L	99
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	0.00	91	0	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	14.80	119	2192	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	15.37	91	2333	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356227.D Vial: 33
Acq On : 15 Nov 2019 12:42 Operator: RLD-DGS
Sample : 166501,356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:20 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	0.00	180	0	N.D.		
103)	Hexachlorobu	0.00	225	0	N.D.		
104)	Naphthalene	0.00	128	0	N.D.		
105)	123Trichlben	0.00	180	0	N.D.		

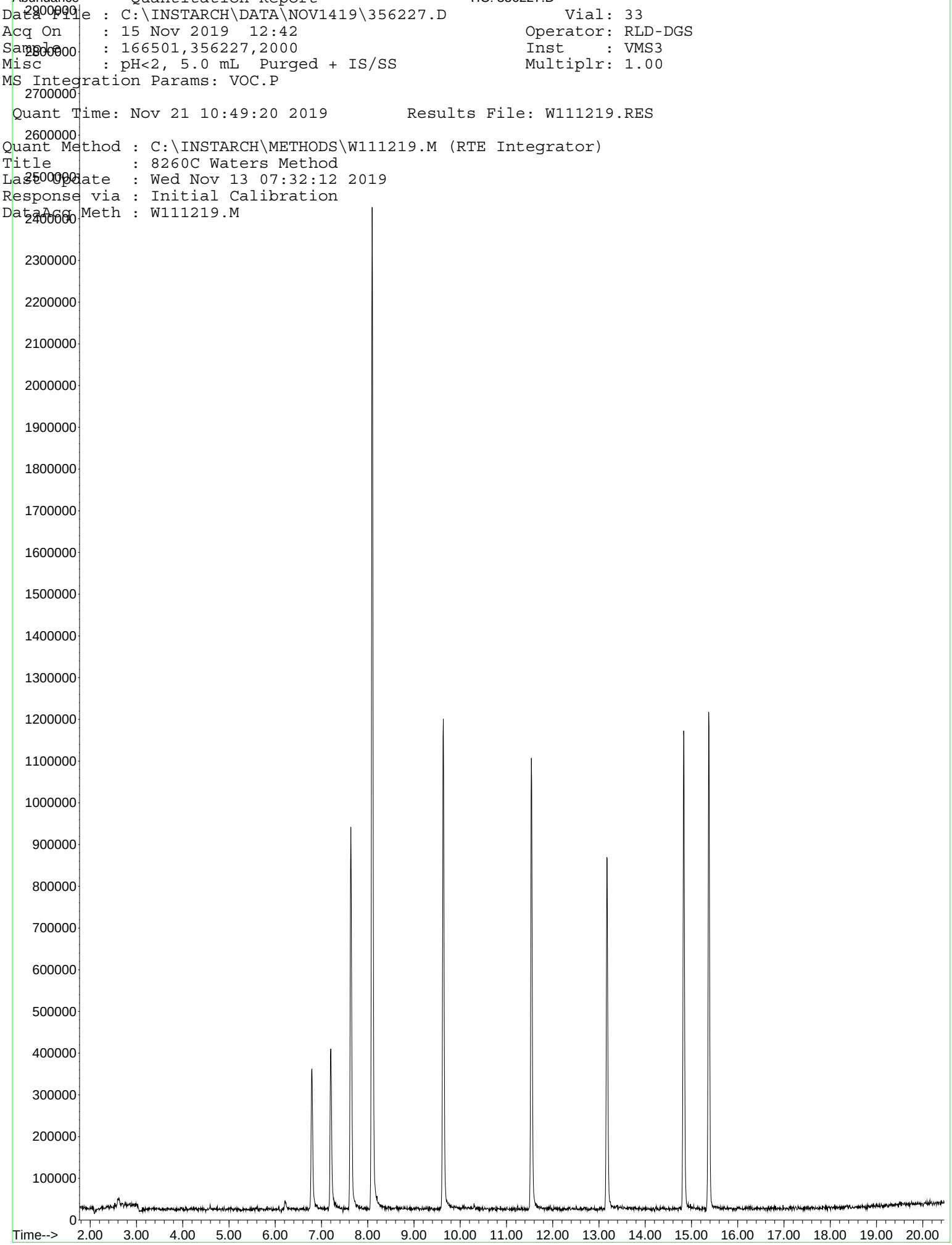
(#) = qualifier out of range (m) = manual integration

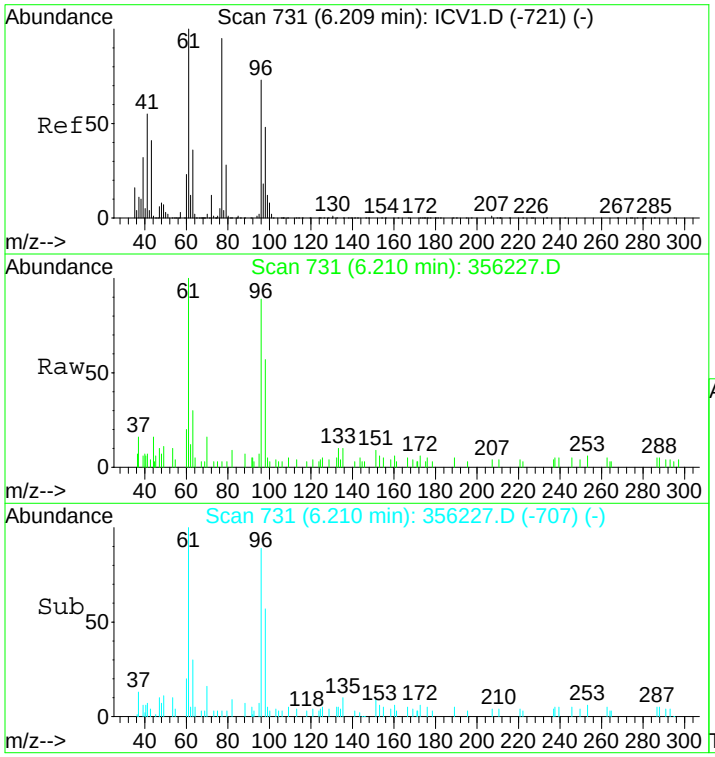
Abundance Quantitation Report TIC: 356227.D

Data File : C:\INSTARCH\DATA\NOV1419\356227.D Vial: 33
Acq On : 15 Nov 2019 12:42 Operator: RLD-DGS
Sample : 166501,356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:20 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

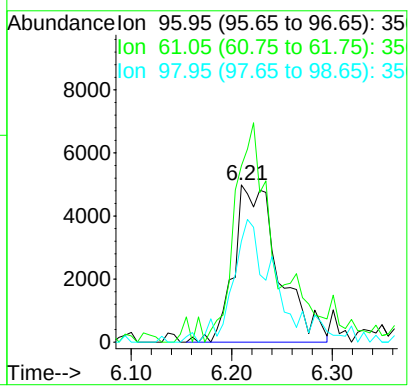


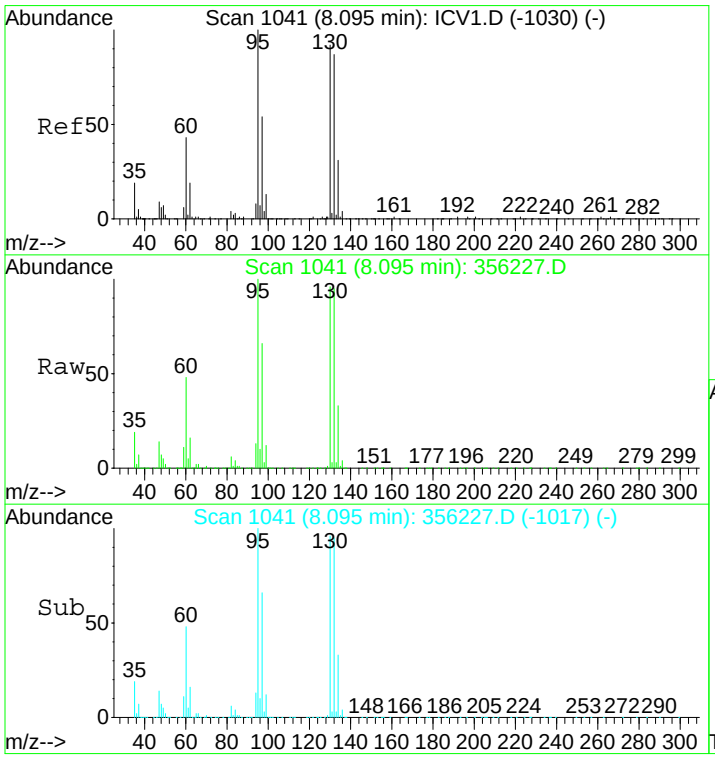


#32
c12dichlorte
Concen: 1.03 ug/L
RT: 6.21 min Scan# 731
Delta R.T. -0.01 min
Lab File: 356227.D
Acq: 15 Nov 2019 12:42

Tgt Ion: 96 Resp: 15462

Ion	Ratio	Lower	Upper
96	100		
61	133.9	114.3	154.3
98	75.9	46.4	86.4

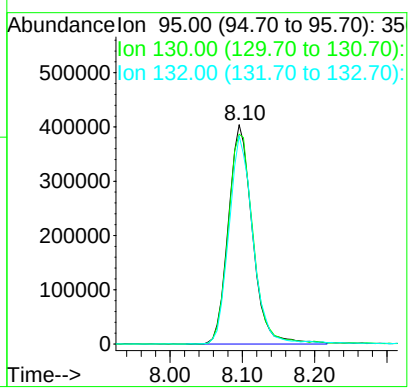




#49
trichloroete
Concen: 66.31 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356227.D
Acq: 15 Nov 2019 12:42

Tgt Ion: 95 Resp: 935632

Ion	Ratio	Lower	Upper
95	100		
130	99.7	80.5	120.5
132	94.7	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356228.D Vial: 34
Acq On : 15 Nov 2019 13:11 Operator: RLD-DGS
Sample : 166501,356228,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:29 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	995555	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	788005	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	410868	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	256046	20.083	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100 %			
45) SURR12DCAd4	7.20	102	72351	20.569	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 103 %			
61) SURRd8Tolule	9.63	98	991848	20.454	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 102 %			
83) SURR4BrFBenz	13.17	95	377180	20.299	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	2.88	64	2747	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	2755	N.D.		
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.22	96	19177	1.3027	ug/L #	76
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356228.D Vial: 34
Acq On : 15 Nov 2019 13:11 Operator: RLD-DGS
Sample : 166501,356228,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:29 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	8.10	95	936775	67.6826	ug/L	99
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	11.54	91	2871	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	0.00	146	0	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	0.00	146	0	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	15.38	91	4003	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356228.D Vial: 34
Acq On : 15 Nov 2019 13:11 Operator: RLD-DGS
Sample : 166501,356228,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:29 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

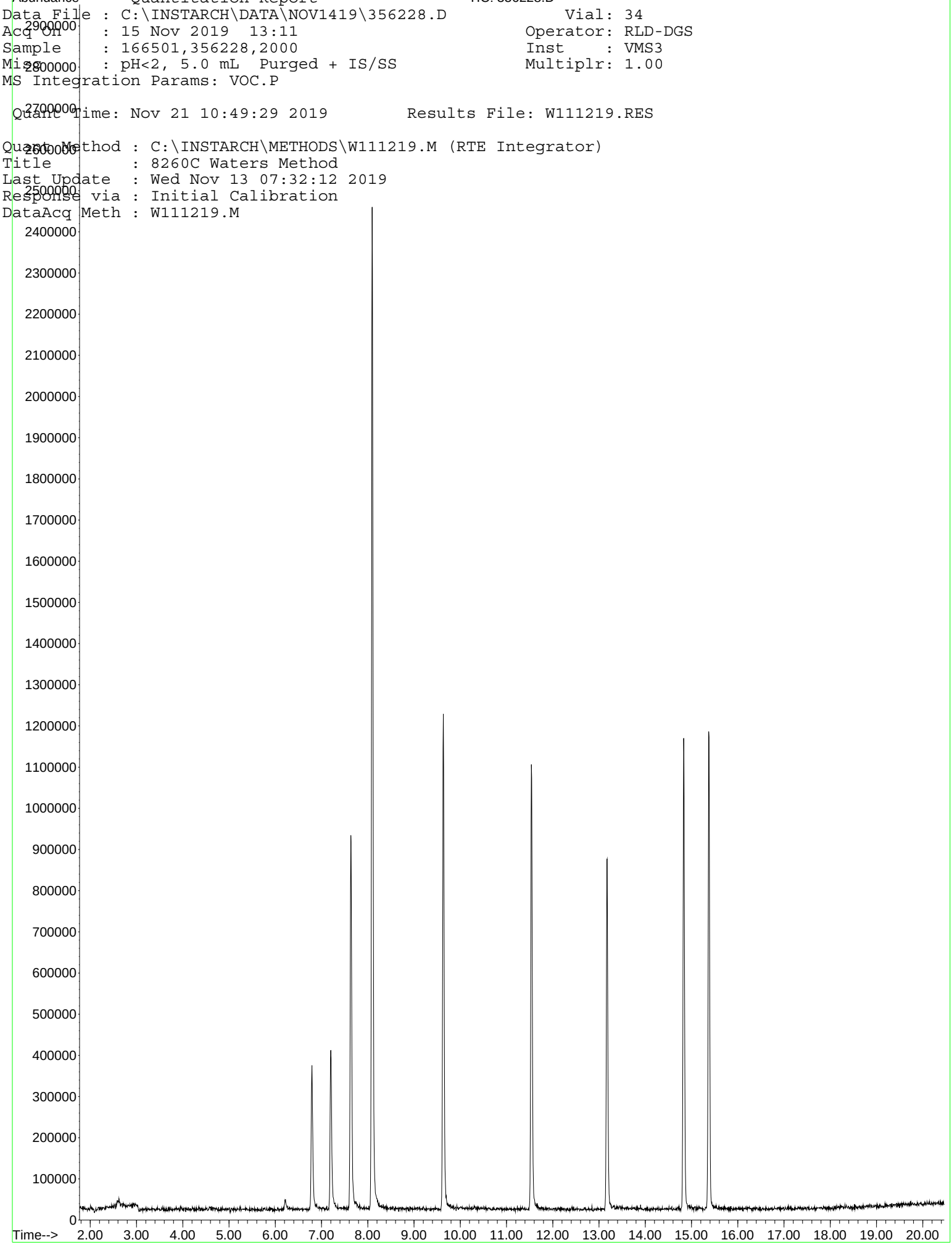
(#) = qualifier out of range (m) = manual integration

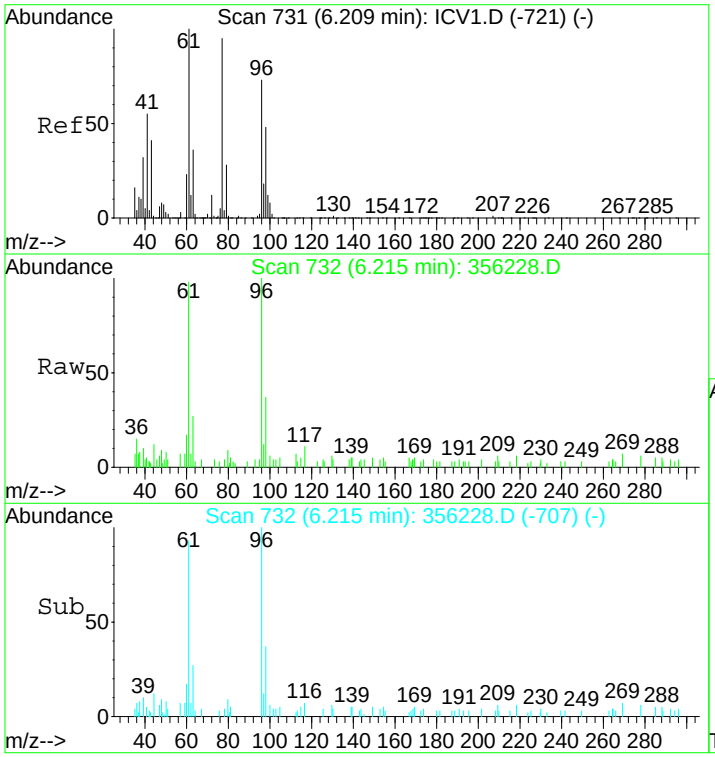
Abundance Quantitation Report TIC: 356228.D

Data File : C:\INSTARCH\DATA\NOV1419\356228.D Vial: 34
Acq On : 15 Nov 2019 13:11 Operator: RLD-DGS
Sample : 166501,356228,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:29 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

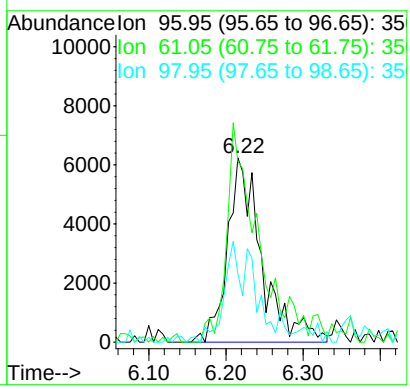


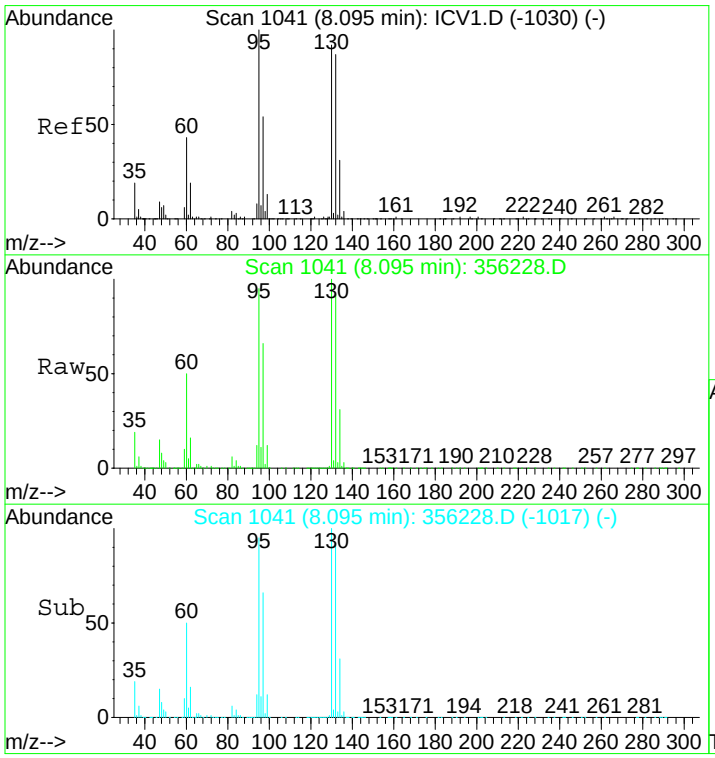


#32
c12dichlorte
Concen: 1.30 ug/L
RT: 6.22 min Scan# 732
Delta R.T. -0.00 min
Lab File: 356228.D
Acq: 15 Nov 2019 13:11

Tgt Ion: 96 Resp: 19177

Ion	Ratio	Lower	Upper
96	100		
61	107.6	114.3	154.3#
98	45.5	46.4	86.4#

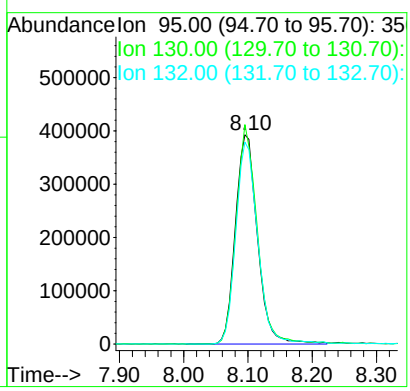




#49
trichloroete
Concen: 67.68 ug/L
RT: 8.10 min Scan# 1041
Delta R.T. -0.01 min
Lab File: 356228.D
Acq: 15 Nov 2019 13:11

Tgt Ion: 95 Resp: 936775

Ion	Ratio	Lower	Upper
95	100		
130	100.5	80.5	120.5
132	96.1	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356211R.D Vial: 35
Acq On : 15 Nov 2019 13:41 Operator: RLD-DGS
Sample : 166500,356211,5 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:42 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1028363	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	792529	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	402473	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	257575	19.558	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 98 %			
45) SURR12DCAd4	7.21	102	71276	19.617	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 98 %			
61) SURRd8Tolule	9.63	98	990349	19.771	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	373223	20.505	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 103 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	0.00	50	0	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) Dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	6733	0.4624	ug/L #	67
21) tbutylalcohol	0.00	59	0	N.D.		
22) Acrylonitrile	0.00	53	0	N.D.		
23) t12dichlorte	0.00	96	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	6.22	96	9076	0.5969	ug/L #	77
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356211R.D Vial: 35
Acq On : 15 Nov 2019 13:41 Operator: RLD-DGS
Sample : 166500,356211,5 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:42 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.10	95	266113	18.6134 ug/L	98
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.54	91	2739	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.39	91	2177	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356211R.D Vial: 35
Acq On : 15 Nov 2019 13:41 Operator: RLD-DGS
Sample : 166500,356211,5 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:42 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	0.00	128	0	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

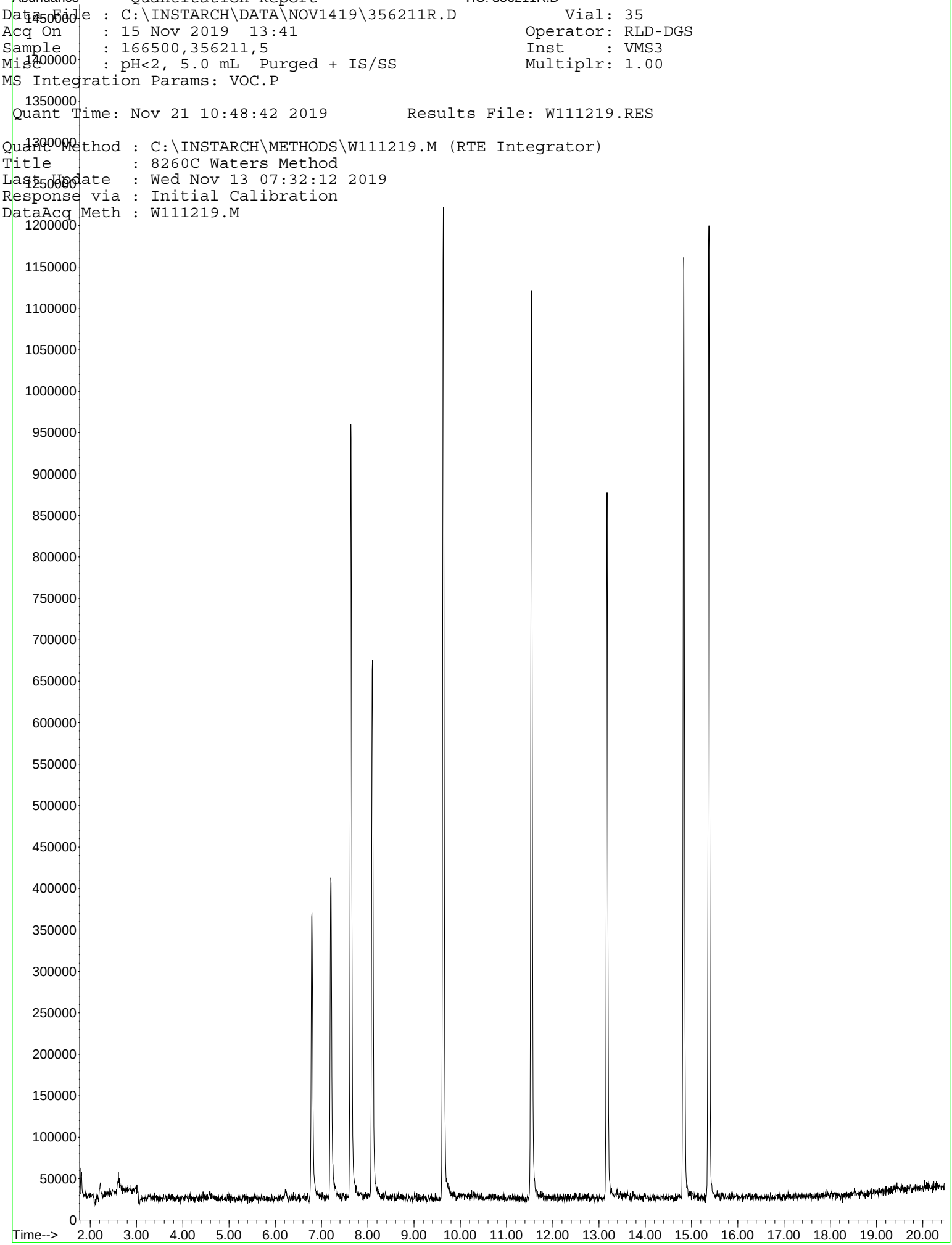
(#) = qualifier out of range (m) = manual integration

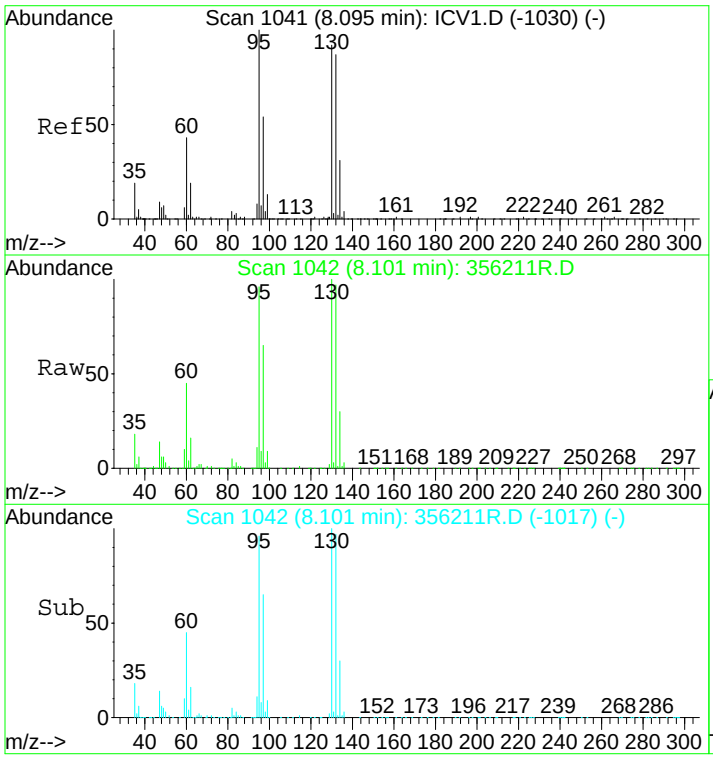
Abundance Quantitation Report TIC: 356211R.D

Data File : C:\INSTARCH\DATA\NOV1419\356211R.D Vial: 35
Acq On : 15 Nov 2019 13:41 Operator: RLD-DGS
Sample : 166500,356211,5 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:42 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

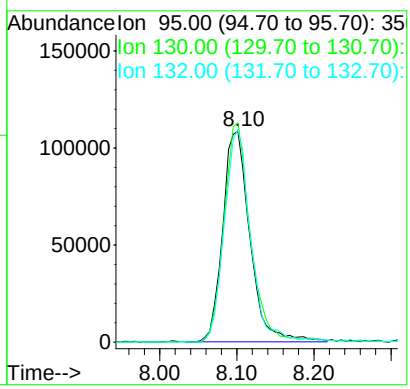




#49
trichloroete
Concen: 18.61 ug/L
RT: 8.10 min Scan# 1042
Delta R.T. -0.00 min
Lab File: 356211R.D
Acq: 15 Nov 2019 13:41

Tgt Ion: 95 Resp: 266113

Ion	Ratio	Lower	Upper
95	100		
130	101.6	80.5	120.5
132	97.9	74.5	114.5



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\356218.D Vial: 40
Acq On : 1 Dec 2019 15:04 Operator: RLD-DGS
Sample : 167058,356218,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 15:25:09 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1104113	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	917110	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	513832	20.00 ug/L	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.79	113	302230	20.316 ug/L	0.00	
Spiked Amount 20.000	Range 90 - 110		Recovery = 102 %			
45) SURR12DCAd4	7.20	102	81806	21.180 ug/L	0.00	
Spiked Amount 20.000	Range 89 - 111		Recovery = 106 %			
61) SURRd8Tolule	9.63	98	1101183	19.746 ug/L	0.00	
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	407078	19.402 ug/L	0.00	
Spiked Amount 20.000	Range 83 - 111		Recovery = 97 %			

Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	0.00	50	0	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.08	43	2966	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.21	76	2783	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	2869	N.D.	
21) tbutylalcohol	0.00	59	0	N.D.	
22) Acrylonitrile	0.00	53	0	N.D.	
23) t12dichlorte	0.00	96	0	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\356218.D Vial: 40
Acq On : 1 Dec 2019 15:04 Operator: RLD-DGS
Sample : 167058,356218,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 15:25:09 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	11.59	112	2296	N.D.	
73)	1Clhexane	0.00	91	0	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\356218.D Vial: 40
Acq On : 1 Dec 2019 15:04 Operator: RLD-DGS
Sample : 167058,356218,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 15:25:09 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

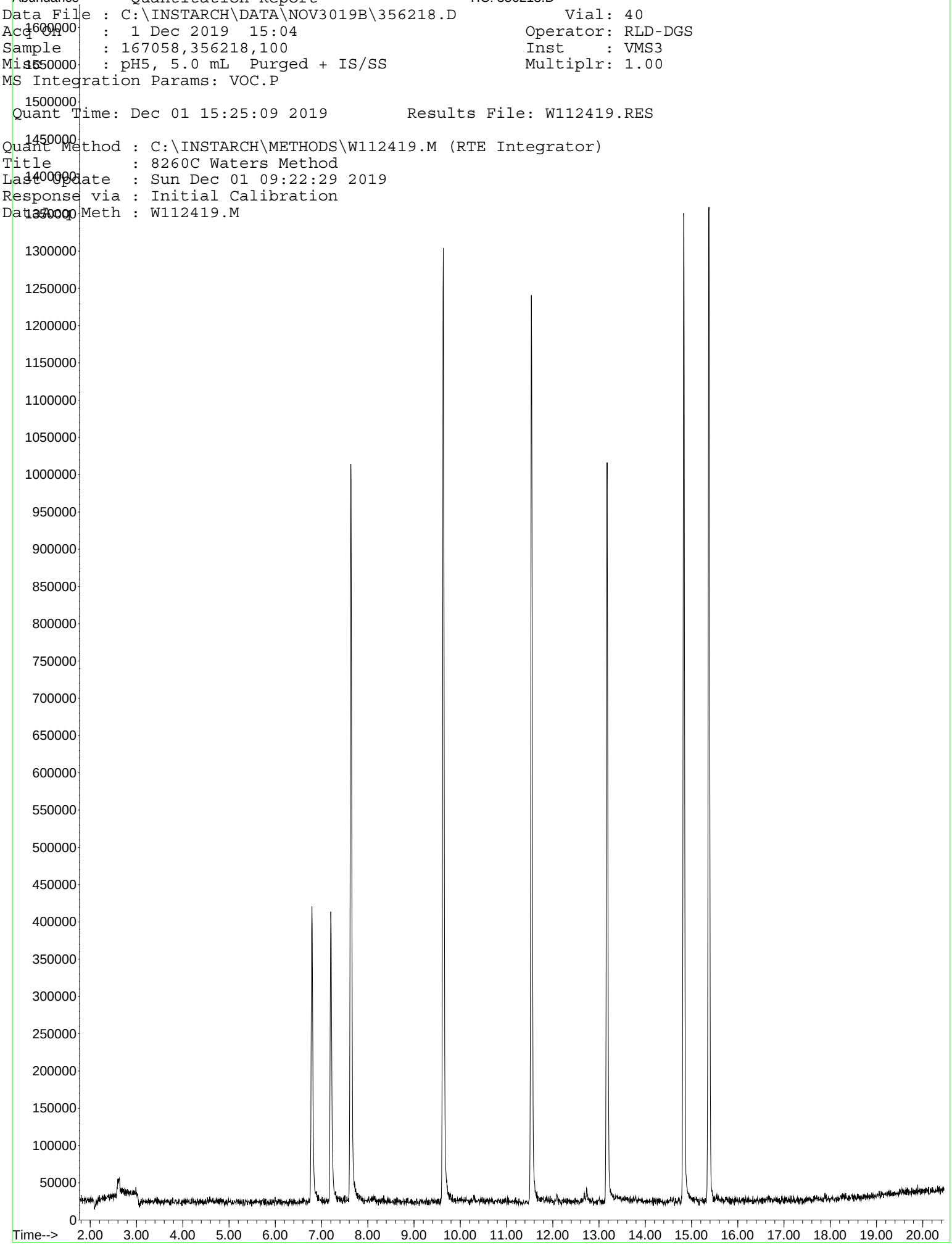
Quantitation Report

TIC: 356218.D

Data File : C:\INSTARCH\DATA\NOV3019B\356218.D Vial: 40
Acq On : 1 Dec 2019 15:04 Operator: RLD-DGS
Sample : 167058,356218,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 15:25:09 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
Data Path Meth : W112419.M



VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Method Path : C:\INSTARCH\METHODS\
Method File : LS111219.M
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response Via : Initial Calibration

RJ 11/20/2019

Calibration Files mg/kg
1 0.001/0.010 =LLCALS1.D 2 0.002/0.020 =LLCALS2.D 3 0.005/0.050 =LLCALS3.D
4 0.010/0.100 =LLCALS4.D 5 0.020/0.200 =LLCALS5.D 6 0.030/0.300 =LLCALS6.D
7 0.040/0.400 =LLCALS7.D 8 0.080/0.800 =LLCALS8.D

		Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------									
2)	T	Dichlorodi	0.279	0.238	0.270	0.261	0.286	0.277	0.270	0.266		
			0.249								6.05	
3)	PT	Chloromethan	0.375	0.364	0.368	0.317	0.355	0.337	0.325	0.344		
			0.308								7.39	
4)	CT	VinylChlorid	0.274	0.291	0.311	0.286	0.331	0.315	0.308	0.300		
			0.286								6.31	
5)	T	Bromomethane	0.179	0.174	0.200	0.192	0.164	0.130	0.130	-----		
			0.122									
								Q	A= -0.005 R=0.994			
									B= 0.138			
									C= 0.012			
6)	T	Chloroethane	0.176	0.182	0.192	0.161	0.179	0.174	0.174	0.175		
			0.159								6.27	
7)	T	dichloroflmetha	0.405	0.439	0.473	0.423	0.465	0.448	0.438	0.437		
			0.404								5.82	
8)	T	Trichlorofma	0.313	0.342	0.382	0.392	0.424	0.409	0.398	0.378		
			0.367								9.66	
9)	T	Ethylether	0.181	0.210	0.211	0.205	0.223	0.215	0.217	0.209		
			0.211								5.96	
10)	T	dichlorotfluoro	0.262	0.241	0.262	0.266	0.290	0.283	0.276	0.266		
			0.252								6.02	
11)	T	propyleneoxide	0.034	0.033	0.034	0.039	0.037	0.032	0.037	0.035		
			0.037								7.24	
12)	T	Acrolein	0.045	0.040	0.048	0.048	0.050	0.047	0.048	0.047		
			0.047								6.02	
13)	CT	11dichlorthe	0.206	0.212	0.234	0.229	0.259	0.246	0.243	0.231		
			0.224								7.68	
14)	T	Trichlorotfluor	0.198	0.188	0.204	0.217	0.243	0.230	0.223	0.213		
			0.204								8.54	
15)	T	Acetone	0.080	0.065	0.071	0.065	0.066	0.063	0.062	0.067		
			0.061								9.29	
16)	T	Iodomethane	0.173	0.115	0.097	0.105	0.182	0.220	0.257	-----		
								Q	A= 0.041 R=0.999			
									B= 0.094			
									C= -0.003			
17)	T	Carbon Dislf	0.691	0.666	0.710	0.656	0.739	0.710	0.677	0.683		
			0.613								5.70	
18)	T	allylchloride	0.485	0.472	0.481	0.449	0.487	0.470	0.461	0.466		
			0.427								4.35	
19)	T	methylacetate	0.081	0.057	0.070	0.073	0.081	0.075	0.074	0.074		
			0.079								10.48	
20)	T	Methylchlorid	0.479	0.419	0.328	0.272	0.291	0.270	0.263	-----		
			0.249									
								Q	A= -0.007 R=1.000			
									B= 0.273			
									C= 0.012			
21)	T	Acrylonitrile	0.069	0.055	0.069	0.076	0.080	0.075	0.077	0.072		
			0.077								11.22	
22)	T	t12dichlorte	0.266	0.264	0.276	0.251	0.278	0.270	0.261	0.264		
			0.247								4.22	

23)	T	tbutylalcohol	0.030	0.027	0.029	0.029	0.029	0.026	0.028	0.028	4.53
			0.027								
24)	T	MtBE	0.672	0.652	0.639	0.623	0.639	0.621	0.629	0.635	3.26
			0.604								
25)	T	Hexane	0.487	0.385	0.345	0.368	0.413	0.382	0.370	0.386	12.01
			0.342								
26)	PT	11dichlorota	0.480	0.496	0.507	0.458	0.504	0.476	0.468	0.479	4.64
			0.444								
27)	T	Vinylacetate	0.335	0.367	0.416	0.433	0.454	0.422	0.409	0.395	12.04
			0.323								
28)	T	chloroprene	0.352	0.346	0.385	0.378	0.422	0.402	0.395	0.380	6.89
			0.361								
29)	T	Diisopether	0.911	0.883	0.929	0.866	0.926	0.890	0.887	0.891	3.60
			0.833								
30)	T	ETBE	0.779	0.772	0.770	0.732	0.788	0.778	0.774	0.767	2.43
			0.745								
31)	T	22dichloropr	0.356	0.365	0.353	0.350	0.377	0.365	0.350	0.357	3.36
			0.338								
32)	T	c12dichlorte	0.287	0.287	0.317	0.277	0.306	0.296	0.291	0.293	4.57
			0.280								
33)	T	2Butanone	0.018	0.019	0.022	0.023	0.024	0.022	0.024	0.022	9.84
			0.024								
34)	T	propionitrile	0.026	0.026	0.028	0.028	0.031	0.029	0.030	0.029	6.19
			0.030								
35)	T	Ethylacetate	0.005	0.006	0.007	0.007	0.008	0.007	0.008	0.007#	13.37
			0.008								
36)	T	methacrylonitri	0.069	0.070	0.082	0.085	0.091	0.088	0.088	0.083	10.45
			0.089								
37)	T	Bromochlorma	0.122	0.119	0.138	0.132	0.142	0.136	0.131	0.130	6.44
			0.122								
38)	T	Tetrahydofur	0.071	0.064	0.072	0.072	0.073	0.067	0.069	0.069	4.63
			0.067								
39)	CT	Chloroform	0.448	0.449	0.468	0.431	0.460	0.449	0.441	0.445	3.62
			0.417								
40)	T	111trichlota	0.400	0.372	0.374	0.382	0.425	0.410	0.406	0.394	4.86
			0.381								
41)	S	SURRDibrflma	0.243	0.249	0.253	0.243	0.244	0.248	0.243	0.246	1.37
			0.245								
42)	T	Cyclohexane	0.368	0.352	0.394	0.417	0.482	0.454	0.445	0.416	10.52
			0.416								
43)	T	Carbtetraclo	0.292	0.286	0.312	0.323	0.366	0.357	0.353	0.327	9.09
			0.329								
44)	T	11dicloprope	0.110	0.128	0.125	0.121	0.135	0.130	0.130	0.125	6.12
			0.123								
45)	S	SURR12DCAd4	0.053	0.054	0.051	0.055	0.051	0.051	0.051	0.052	3.31
			0.051								
46)	T	Benzene	1.022	1.056	1.092	1.008	1.090	1.042	1.025	1.036	4.42
			0.952								
47)	T	12dichlorota	0.343	0.330	0.318	0.315	0.331	0.315	0.316	0.322	3.83
			0.304								
48)	T	TAME	0.638	0.620	0.637	0.600	0.663	0.641	0.657	0.637	3.12
			0.642								
49)	T	trichloroete	0.297	0.257	0.260	0.245	0.281	0.270	0.265	0.266	6.30
			0.254								
50)	T	methylcyclohexa	0.367	0.353	0.411	0.454	0.510	0.506	0.483	0.443	13.54
			0.456								
51)	CT	12dicloropra	0.284	0.272	0.303	0.285	0.296	0.291	0.284	0.287	3.48
			0.279								
52)	T	23dicl1propene	0.375	0.338	0.364	0.345	0.379	0.374	0.376	0.365	4.24
			0.371								
53)	T	Dibromometha	0.100	0.152	0.154	0.143	0.154	0.150	0.150	0.144	12.53
			0.148								
54)	T	methylmethacryl	0.116	0.105	0.127	0.130	0.148	0.147	0.150	0.135	13.68
			0.158								
55)	T	14dioxane	0.002	0.002	0.002	0.002	0.003	0.002	0.003	0.002#	5.51
			0.003								
56)	T	Bromodiclrma	0.321	0.332	0.337	0.319	0.346	0.341	0.342	0.334	2.91
			0.330								
57)	T	2Nitropropane	0.051	0.047	0.058	0.061	0.067	0.064	0.067	0.060	12.48
			0.067								

58)	T	c13dicloproe	0.363	0.375	0.393	0.381	0.414	0.410	0.411	0.394	4.83
			0.401								
59)	T	4Meth2Pentan	0.239	0.219	0.252	0.242	0.249	0.228	0.228	0.232	7.13
			0.202								
60)	S	SURRd8Tolule	0.995	0.997	1.016	1.003	0.995	1.002	0.995	1.000	0.71
			0.996								
61)	CT	Toluene	0.724	0.678	0.737	0.655	0.708	0.688	0.684	0.690	4.69
			0.643								
62)	T	t13Dicloprop	0.282	0.292	0.325	0.319	0.344	0.340	0.345	0.324	7.79
			0.349								
63)	T	ethylmethacryla	0.252	0.243	0.282	0.276	0.306	0.297	0.309	0.284	8.80
			0.303								
64)	T	112Triclotha	0.202	0.181	0.196	0.181	0.194	0.187	0.186	0.189	3.99
			0.185								
65)	T	Tetrachlorte	0.334	0.315	0.311	0.291	0.327	0.315	0.312	0.312	4.75
			0.293								
66)	T	13Diclorpropa	0.342	0.353	0.366	0.353	0.370	0.362	0.360	0.357	2.64
			0.349								
67)	I	d5-CHLOROBENZENE**IST	----------ISTD----------								
68)	T	2Hexanone	0.159	0.172	0.213	0.214	0.232	0.215	0.220	0.203	12.32
			0.201								
69)	T	Clorodibrmta	0.296	0.328	0.344	0.320	0.362	0.362	0.353	0.340	6.89
			0.355								
70)	T	12Dibrometha	0.240	0.285	0.290	0.301	0.313	0.304	0.304	0.292	7.82
			0.301								
71)	PT	Chlorobenzen	0.973	1.038	0.997	0.904	0.991	0.953	0.935	0.958	5.50
			0.876								
72)	T	1Clhexane	0.405	0.358	0.388	0.415	0.460	0.460	0.448	0.419	8.60
			0.416								
73)	T	1112Tetclota	0.364	0.349	0.360	0.333	0.364	0.357	0.368	0.355	3.28
			0.347								
74)	CT	Ethylbenzene	1.535	1.509	1.599	1.480	1.693	1.630	1.574	1.556	5.44
			1.432								
75)	T	m p-Xylene	0.613	0.601	0.631	0.594	0.659	0.637	0.624	0.616	4.47
			0.571								
76)	T	o-Xylene	0.591	0.629	0.657	0.595	0.664	0.631	0.640	0.625	4.70
			0.591								
77)	T	Styrene	0.895	0.913	0.971	0.932	1.042	1.019	1.013	0.966	5.56
			0.947								
78)	PT	Bromoform	0.180	0.184	0.214	0.203	0.229	0.228	0.240	0.215	10.98
			0.238								
79)	T	Isopropylben	1.480	1.485	1.655	1.533	1.736	1.674	1.632	1.583	6.55
			1.469								
80)	I	d4-1,4-DICHLOROBENZEN	----------ISTD----------								
81)	T	cyclohexanone	0.023	0.020	0.022	0.022	0.022	0.021	0.022	0.021	4.38
			0.021								
82)	S	SURR4BrFBenz	0.794	0.831	0.812	0.824	0.827	0.834	0.824	0.820	1.57
			0.817								
83)	T	Bromobenzene	0.798	0.828	0.809	0.798	0.836	0.809	0.805	0.805	3.03
			0.754								
84)	PT	1122Tetrclta	0.694	0.699	0.716	0.716	0.735	0.693	0.701	0.704	2.58
			0.675								
85)	T	123Triclproa	0.742	0.748	0.859	0.831	0.876	0.835	0.865	0.823	6.22
			0.828								
86)	T	14dichloro2bute	0.191	0.184	0.195	0.215	0.203	0.218	0.224	0.204	6.89
			0.203								
87)	T	n-Propylbenz	2.980	3.053	3.150	3.202	3.451	3.324	3.211	3.152	6.10
			2.844								
88)	T	2chlorotolue	1.894	1.894	1.977	1.849	2.018	1.971	1.896	1.904	4.59
			1.738								
89)	T	4chlorotolue	2.071	2.173	2.133	2.149	2.259	2.195	2.137	2.136	4.06
			1.968								
90)	T	135Trimebenz	2.282	2.303	2.428	2.367	2.567	2.487	2.439	2.383	5.09
			2.192								
91)	T	tbutylbenzen	1.937	1.977	2.116	2.109	2.290	2.238	2.189	2.103	6.30
			1.967								
92)	T	124Trimetben	2.439	2.541	2.441	2.396	2.567	2.476	2.428	2.436	4.57
			2.200								

93)	T	sbutylbenzen	2.853	2.840	3.023	3.120	3.408	3.239	3.180	3.057	7.15
			2.794								
94)	T	13Diclorbenz	1.596	1.592	1.576	1.438	1.535	1.467	1.456	1.502	5.78
			1.354								
95)	T	pIsopropylto	2.332	2.388	2.631	2.616	2.782	2.695	2.637	2.554	6.75
			2.349								
96)	T	14dichlorobe	1.500	1.662	1.534	1.439	1.506	1.466	1.449	1.487	6.23
			1.337								
97)	T	12dichlorobe	1.565	1.476	1.520	1.409	1.458	1.419	1.418	1.447	5.39
			1.308								
98)	T	nButylbenzen	2.174	2.188	2.146	2.199	2.421	2.343	2.268	2.223	5.25
			2.051								
99)	T	12dibromo3cl	0.110	0.155	0.149	0.153	0.167	0.152	0.163	0.151	11.76
			0.161								
100)	T	135Trichloroben	1.229	1.173	1.071	1.075	1.146	1.086	1.058	1.103	6.89
			0.986								
101)	T	124Trichlobe	1.008	1.070	0.985	0.951	1.012	0.989	0.965	0.985	4.95
			0.903								
102)	T	Hexachlorobu	0.558	0.562	0.558	0.615	0.662	0.642	0.615	0.597	6.96
			0.568								
103)	T	Naphthalene	2.308	2.108	2.161	2.216	2.320	2.252	2.274	2.217	3.91
			2.098								
104)	T	123Trichlben	1.043	0.994	0.941	0.944	1.006	0.965	0.940	0.964	5.25
			0.878								

Total Average %RSD 6.33

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

LS111219.M Tue Nov 19 08:17:07 2019

Data File : C:\Instarch\Data\NOV1219\BFB1.D Vial: 1
Acq On : 12 Nov 2019 9:15 Operator: RLD-DGS
Sample : BFB DIRECT INJ. Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS111219.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.630 to 4.656 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	6581	PASS
75	95	30	60	41.3	15704	PASS
95	95	100	100	100.0	38032	PASS
96	95	5	9	7.7	2939	PASS
173	174	0.00	2	0.6	194	PASS
174	95	50	100	92.2	35075	PASS
175	174	5	9	6.4	2260	PASS
176	174	95	101	96.4	33813	PASS
177	176	5	9	7.4	2509	PASS

LS111219.M Tue Nov 19 08:10:51 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS1.D Vial: 3
Acq On : 12 Nov 2019 10:11 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.001/0.010 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:50:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:44 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	968207	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	761170	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	429105	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	235757	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	51051	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.67	98	963341	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	340504	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	13505	0.0010	mg/kg	98
3) Chloromethan	2.06	50	18165	0.0011	mg/kg	96
4) VinylChlorid	2.21	62	13275	0.0009	mg/kg	99
5) Bromomethane	2.68	94	8653m	0.0010	mg/kg	95
6) Chloroethane	2.83	64	8538	0.0010	mg/kg	83
7) dichloroflmethane	3.15	67	19594	0.0009	mg/kg	95
8) Trichlorofma	3.21	101	15150	0.0008	mg/kg	91
9) Ethylether	3.66	59	8783	0.0009	mg/kg	84
10) dichlorotfluoroethan	3.68	67	12681	0.0010	mg/kg	93
11) propyleneoxide	3.72	58	16325	0.0096	mg/kg	82
12) Acrolein	3.82	56	10955	0.0049	mg/kg	87
13) 11dichlorthe	3.94	96	9963	0.0009	mg/kg	87
14) Trichlorotfluoroeth	3.97	101	19130	0.0019	mg/kg	95
15) Acetone	4.06	43	38736	0.0120	mg/kg	95
16) Iodomethane	4.13	142	16714m	0.0019	mg/kg	85
17) Carbon Dislf	4.20	76	66902	0.0020	mg/kg	99
18) allylchloride	4.43	41	46951	0.0021	mg/kg	94
19) methylacetate	4.53	74	3904m	0.0012	mg/kg	89
20) Methylchlorid	4.60	84	23188m	0.0015	mg/kg	92
21) Acrylonitrile	4.98	53	16643m	0.0049	mg/kg#	95
22) t12dichlorte	4.97	96	12857	0.0010	mg/kg	93
23) tbutylalcohol	4.81	59	72796	0.0535	mg/kg	98
24) MtBE	4.98	73	32530	0.0011	mg/kg#	64
25) Hexane	5.33	57	47131	0.0025	mg/kg	97
26) 11dichlorota	5.49	63	23229	0.0010	mg/kg	98
27) Vinylacetate	5.61	43	162375	0.0085	mg/kg	98
28) chloroprene	5.61	53	34118	0.0019	mg/kg	99
29) Diisopether	5.62	45	44118	0.0010	mg/kg#	56
30) ETBE	6.07	59	37690	0.0010	mg/kg	95
31) 22dichloropr	6.22	77	17226	0.0010	mg/kg	99
32) c12dichlorte	6.25	96	13910	0.0010	mg/kg#	87
33) 2Butanone	6.33	72	8758m	0.0090	mg/kg#	38
34) propionitrile	6.37	54	12797m	0.0098	mg/kg	77
35) Ethylacetate	6.39	88	1323m	0.0040	mg/kg#	55
36) methacrylonitrile	6.57	67	6658	0.0017	mg/kg#	76
37) Bromochlorma	6.54	128	5901	0.0009	mg/kg#	89
38) Tetrahydofur	6.61	42	34271	0.0102	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS1.D Vial: 3
Acq On : 12 Nov 2019 10:11 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.001/0.010 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:50:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:44 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.64	83	21698	0.0010 mg/kg	95
40)	111trichlota	6.86	97	19365	0.0010 mg/kg	95
42)	Cyclohexane	6.92	56	17818	0.0009 mg/kg	93
43)	Carbtetraclo	7.06	119	14156	0.0009 mg/kg	95
44)	11dicloprope	7.07	110	5319	0.0009 mg/kg#	88
46)	Benzene	7.32	78	49473	0.0010 mg/kg#	78
47)	12dichlorota	7.34	62	16624	0.0011 mg/kg	92
48)	TAME	7.46	73	30904	0.0010 mg/kg	99
49)	trichloroete	8.14	95	14401	0.0011 mg/kg	83
50)	methylcyclohexane	8.36	83	17782	0.0008 mg/kg	97
51)	12dicloropra	8.40	63	13739	0.0010 mg/kg#	92
52)	23dicl1propene	8.47	75	18170	0.0010 mg/kg	95
53)	Dibromometha	8.57	93	4856	0.0007 mg/kg#	70
54)	methylmethacrylate	8.60	69	5639m	0.0009 mg/kg#	43
55)	14dioxane	8.60	88	5534	0.0467 mg/kg#	84
56)	Bromodiclrma	8.75	83	15557	0.0010 mg/kg	95
57)	2Nitropropane	9.03	43	24884	0.0085 mg/kg	88
58)	c13dicloproe	9.33	75	17549	0.0009 mg/kg	96
59)	4Meth2Pentan	9.51	43	115767	0.0103 mg/kg	97
61)	Toluene	9.76	92	35039	0.0010 mg/kg	100
62)	t13Dicloprop	10.06	75	13660	0.0009 mg/kg	89
63)	ethylmethacrylate	10.19	69	24371	0.0018 mg/kg	88
64)	112Triclotha	10.28	83	9768	0.0011 mg/kg#	86
65)	Tetrachlorte	10.49	166	16150	0.0011 mg/kg	93
66)	13Diclorpropa	10.50	76	16551	0.0010 mg/kg	99
68)	2Hexanone	10.63	43	60368	0.0078 mg/kg	98
69)	Clorodibrmta	10.80	129	11264	0.0009 mg/kg	97
70)	12Dibrometha	10.96	107	9132	0.0008 mg/kg	97
71)	Chlorobenzen	11.63	112	37026	0.0010 mg/kg#	75
72)	1Clhexane	11.59	91	15410	0.0010 mg/kg#	78
73)	1112Tetclota	11.73	131	13842	0.0010 mg/kg	97
74)	Ethylbenzene	11.78	91	58420	0.0010 mg/kg	94
75)	m p-Xylene	11.94	106	46678	0.0020 mg/kg	99
76)	o-Xylene	12.50	106	22508	0.0009 mg/kg	98
77)	Styrene	12.52	104	34054	0.0009 mg/kg	97
78)	Bromoform	12.76	173	6835	0.0008 mg/kg	94
79)	Isopropylben	13.01	105	56319	0.0009 mg/kg	97
81)	cyclohexanone	13.13	55	9702	0.0211 mg/kg#	95
83)	Bromobenzene	13.45	156	17117	0.0010 mg/kg	93
84)	1122Tetrclta	13.42	83	14895	0.0010 mg/kg	92
85)	123Triclproa	13.48	75	15918	0.0009 mg/kg	97
86)	14dichloro2butene	13.52	53	4108	0.0009 mg/kg#	57
87)	n-Propylbenz	13.60	91	63947	0.0009 mg/kg	99
88)	2chlorotolue	13.72	91	40634	0.0010 mg/kg	99
89)	4chlorotolue	13.88	91	44438	0.0010 mg/kg	98
90)	135Trimebenz	13.86	105	48967	0.0010 mg/kg	100
91)	tbutylbenzen	14.33	119	41554	0.0009 mg/kg	98
92)	124Trimetben	14.40	105	52330	0.0010 mg/kg	91
93)	sbutylbenzen	14.65	105	61217	0.0009 mg/kg	97
94)	13Diclorbenz	14.80	146	34244	0.0011 mg/kg	94
95)	pIsopropylto	14.86	119	50027	0.0009 mg/kg	98
96)	14dichlorobe	14.92	146	32191	0.0010 mg/kg	82
97)	12dichlorobe	15.46	146	33584	0.0011 mg/kg	94
98)	nButylbenzen	15.46	91	46645	0.0010 mg/kg	97
99)	12dibromo3cl	16.58	157	2356	0.0007 mg/kg#	75
100)	135Trichlorobenzene	16.88	180	26368	0.0011 mg/kg	94
101)	124Trichlobe	17.71	180	21617	0.0010 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS1.D Vial: 3
Acq On : 12 Nov 2019 10:11 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.001/0.010 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:50:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:44 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.94	225	11963	0.0009	mg/kg	86
103)	Naphthalene	18.02	128	49526	0.0010	mg/kg	97
104)	123Trichlben	18.33	180	22384	0.0011	mg/kg	96

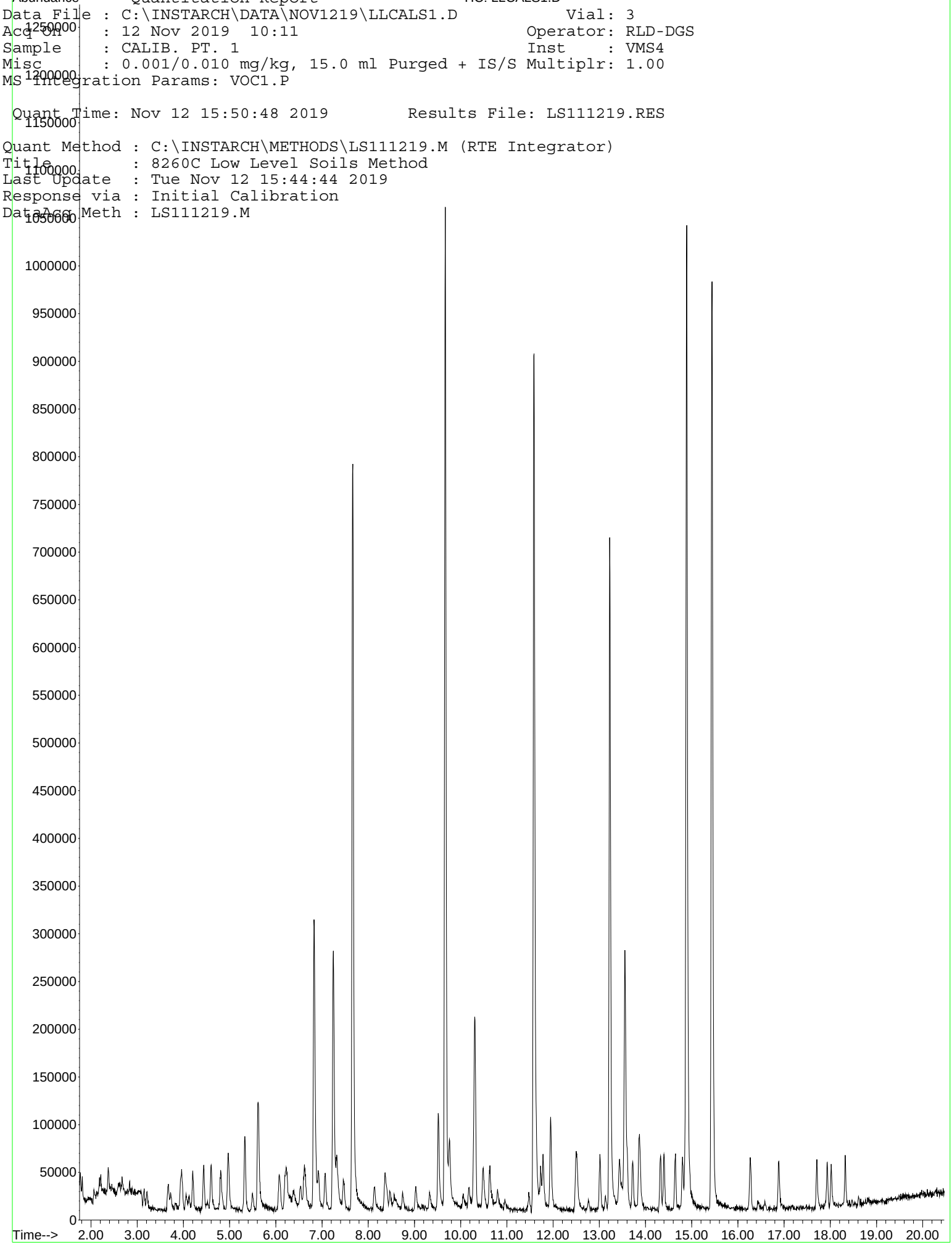
(#) = qualifier out of range (m) = manual integration

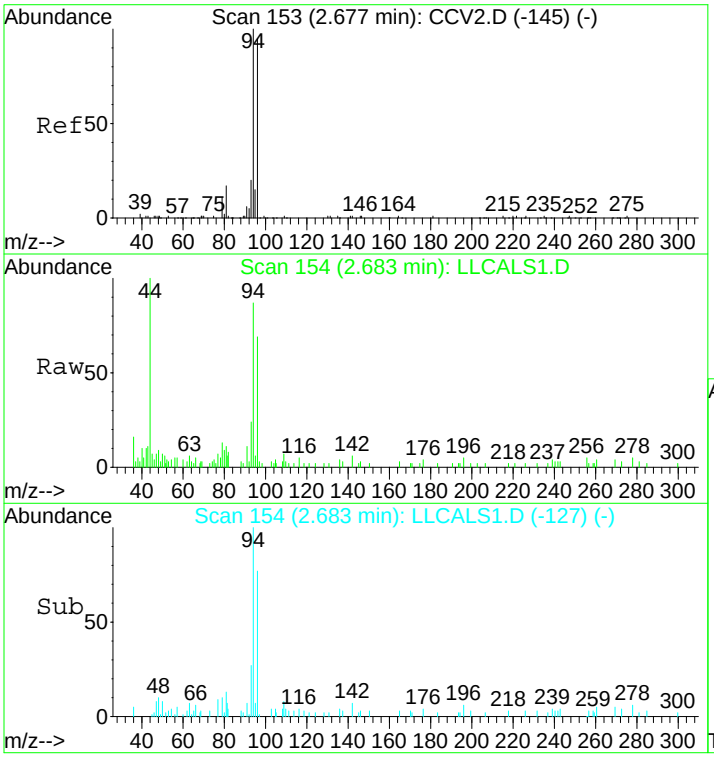
Abundance Quantitation Report TIC: LLCALS1.D

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS1.D Vial: 3
Acq On : 12 Nov 2019 10:11 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.001/0.010 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:50:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:44 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

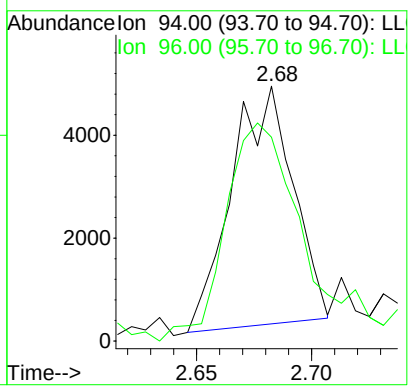




#5
Bromomethane
Concen: 0.00 mg/kg m
RT: 2.68 min Scan# 154
Delta R.T. 0.01 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

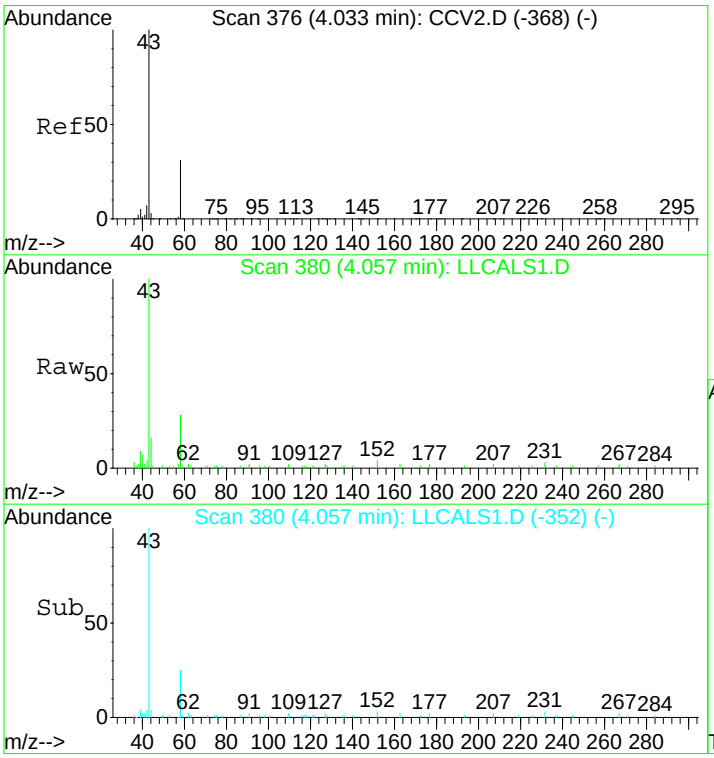
Tgt Ion: 94 Resp: 8653

Ion	Ratio	Lower	Upper
94	100		
96	115.0	76.8	116.8



After Manual Integration

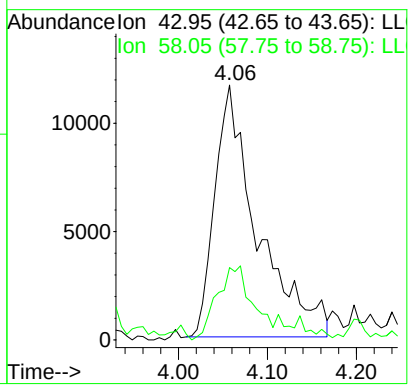
RJ 11/20/2019



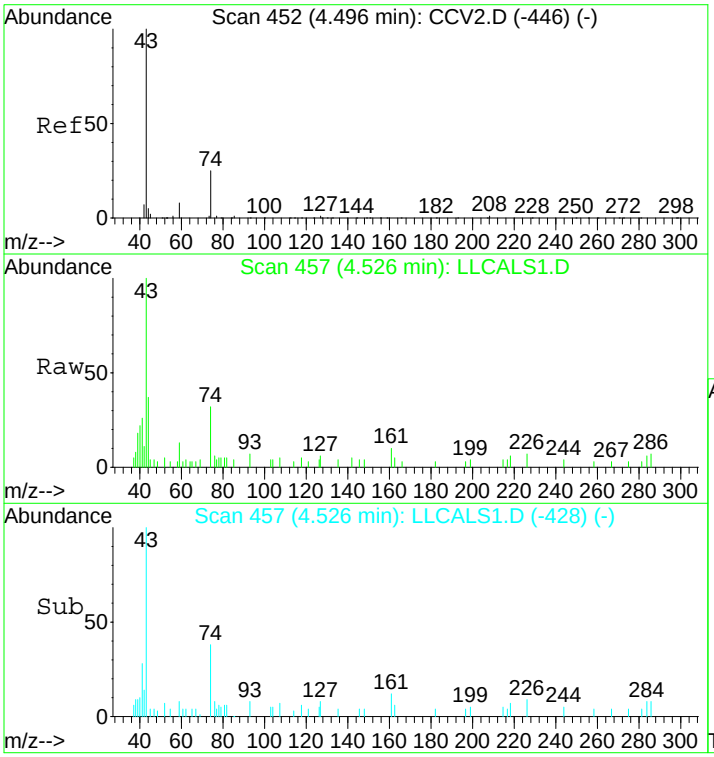
#15
Acetone
Concen: 0.01 mg/kg
RT: 4.06 min Scan# 380
Delta R.T. 0.02 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 43 Resp: 38736

Ion	Ratio	Lower	Upper
43	100		
58	30.2	7.7	47.7



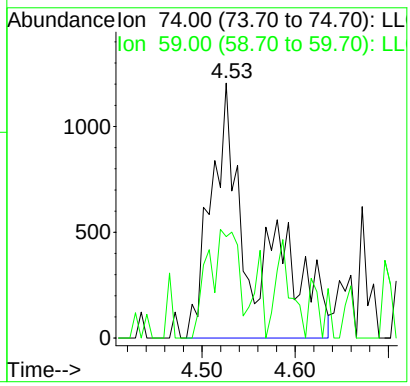
DGS 11/20/2019



#19
methylacetate
Concen: 0.00 mg/kg m
RT: 4.53 min Scan# 457
Delta R.T. 0.02 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

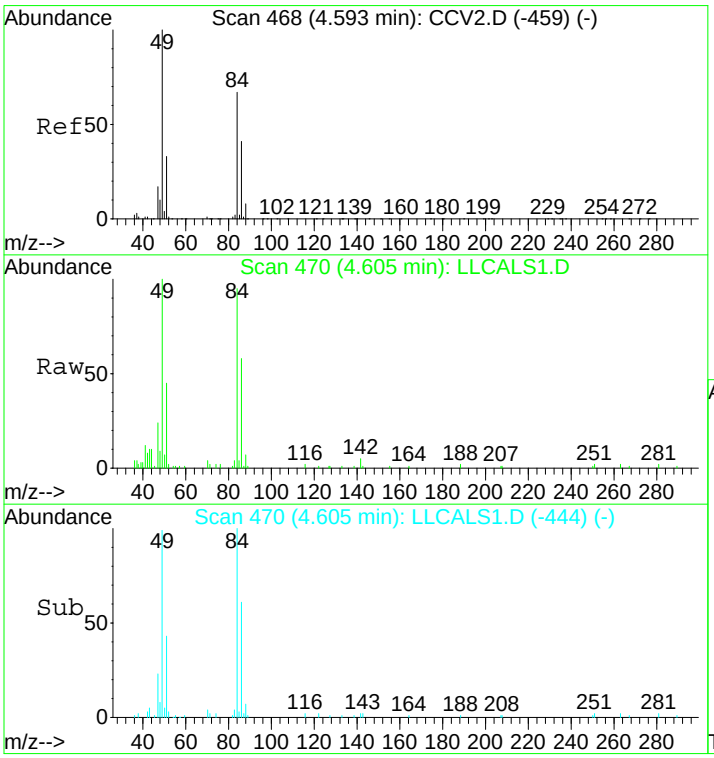
Tgt Ion: 74 Resp: 3904

Ion	Ratio	Lower	Upper
74	100		
59	30.7	23.8	63.8



After Manual Integration

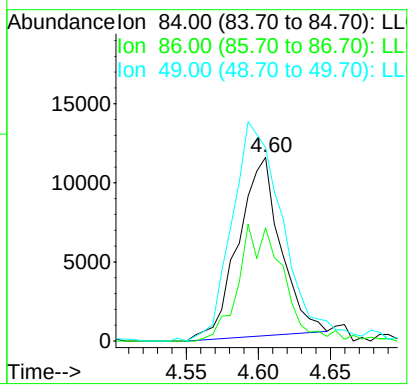
RJ 11/20/2019



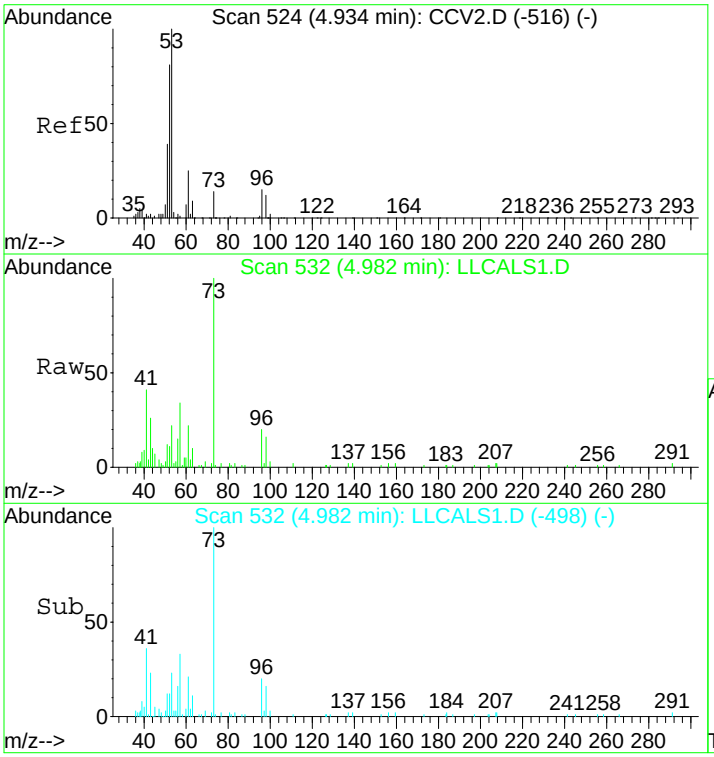
#20
Methylchlorid
Concen: 0.00 mg/kg m
RT: 4.60 min Scan# 470
Delta R.T. 0.01 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 84 Resp: 23188

Ion	Ratio	Lower	Upper
84	100		
86	69.3	47.4	87.4
49	151.3	128.2	168.2



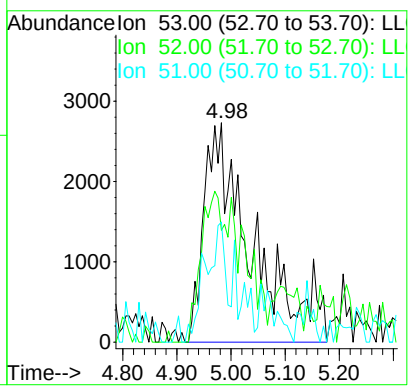
DGS 11/20/2019



#21
Acrylonitrile
Concen: 0.00 mg/kg m
RT: 4.98 min Scan# 532
Delta R.T. 0.05 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

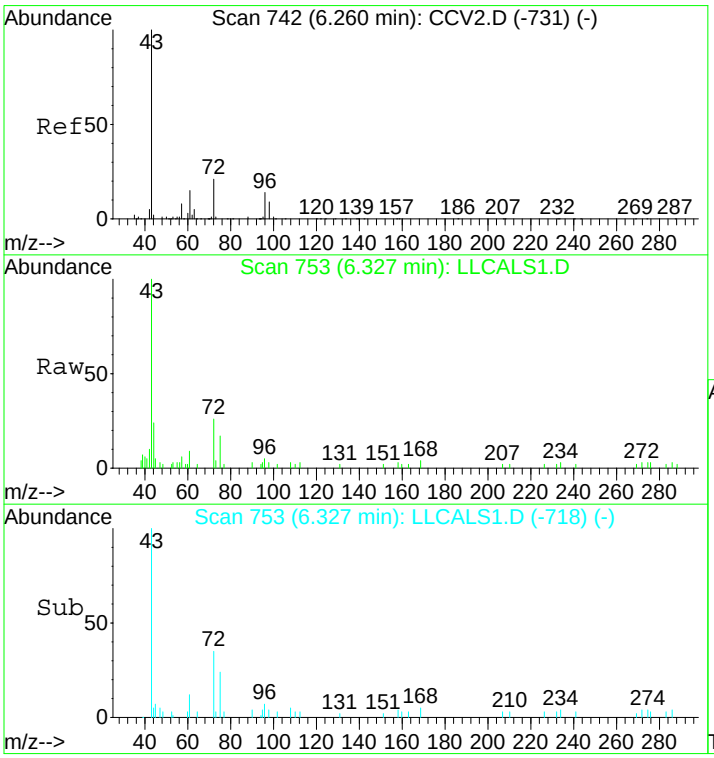
Tgt Ion: 53 Resp: 16643

Ion	Ratio	Lower	Upper
53	100		
52	56.7	59.5	99.5#
51	23.5	15.9	55.9



After Manual Integration

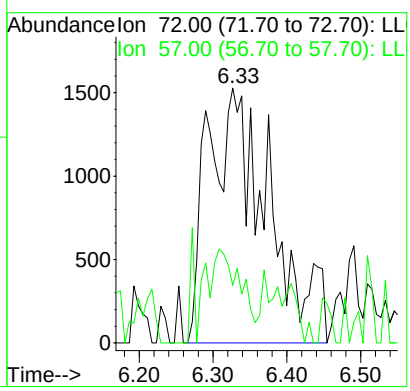
11/20/2019



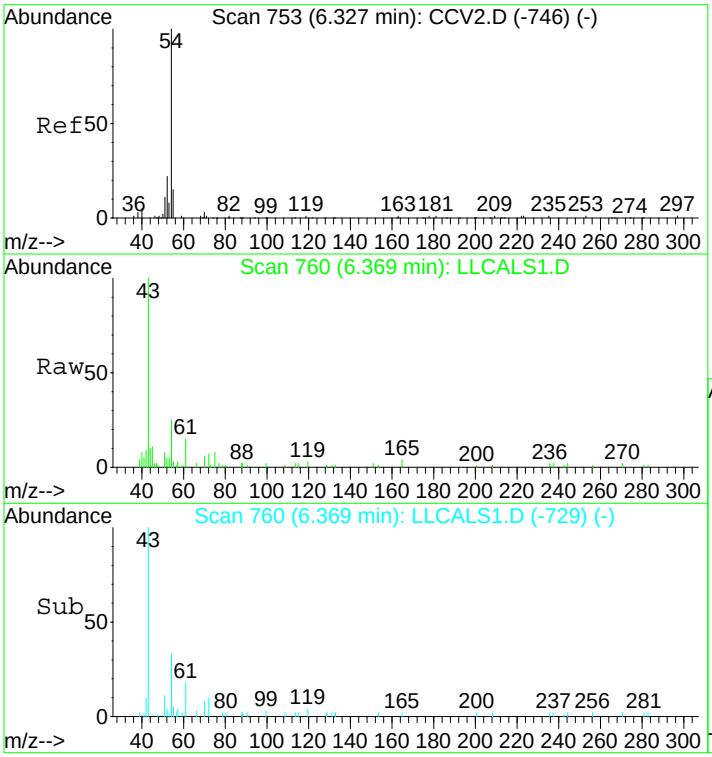
#33
2Butanone
Concen: 0.01 mg/kg m
RT: 6.33 min Scan# 753
Delta R.T. 0.06 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 72 Resp: 8758

Ion	Ratio	Lower	Upper
72	100		
57	0.0	17.0	57.0#



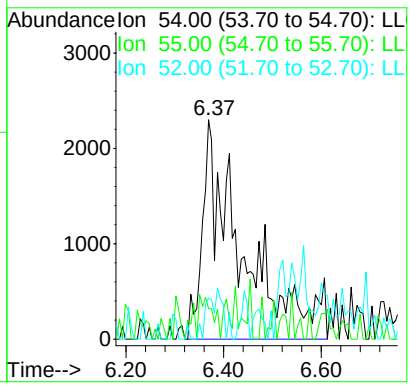
DGS 11/20/2019



#34
propionitrile
Concen: 0.01 mg/kg m
RT: 6.37 min Scan# 760
Delta R.T. 0.04 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

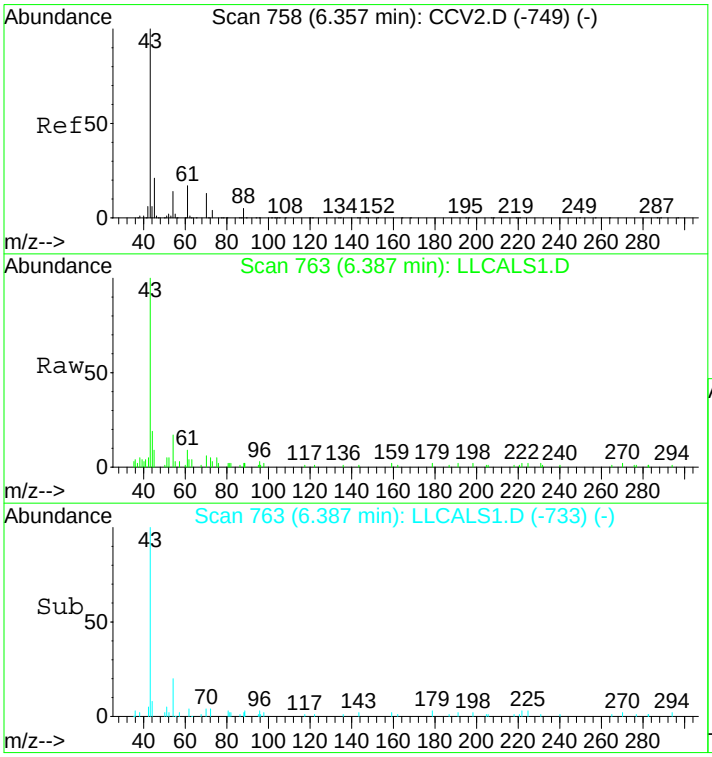
Tgt Ion: 54 Resp: 12797

Ion	Ratio	Lower	Upper
54	100		
55	0.0	0.0	35.3
52	9.3	0.0	38.2



After Manual Integration

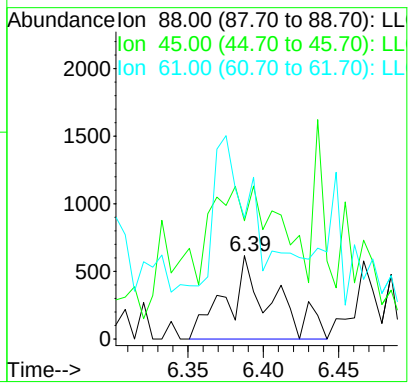
11/20/2019



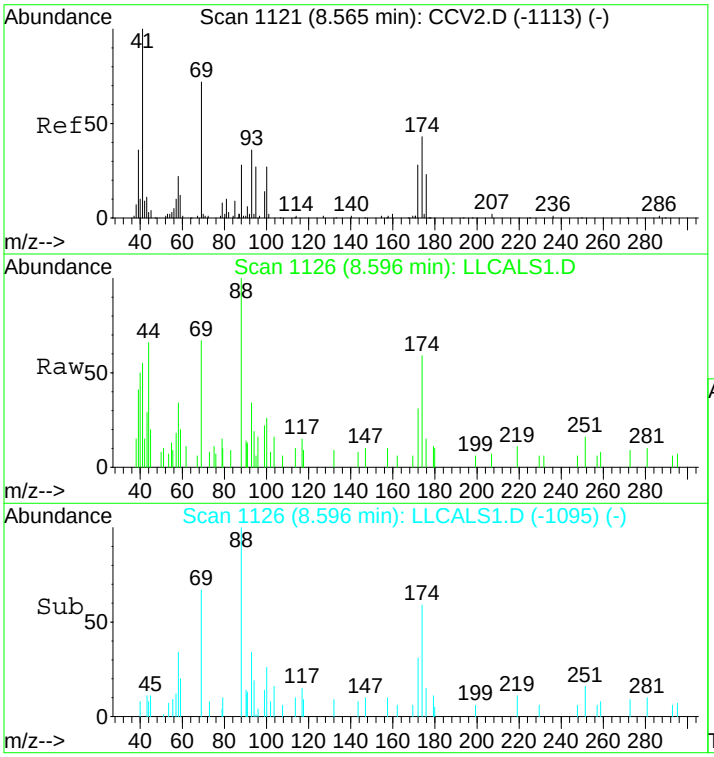
#35
Ethylacetate
Concen: 0.00 mg/kg m
RT: 6.39 min Scan# 763
Delta R.T. 0.03 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 88 Resp: 1323

Ion	Ratio	Lower	Upper
88	100		
45	161.4	354.7	394.7#
61	315.9	351.4	391.4#



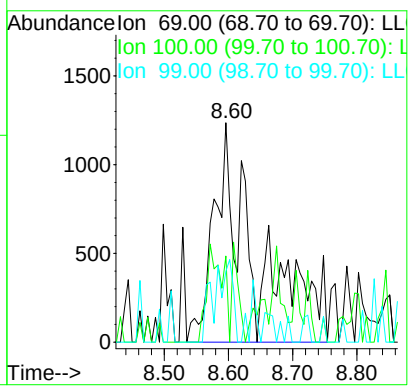
DGS 11/20/2019



#54
methylmethacrylate
Concen: 0.00 mg/kg m
RT: 8.60 min Scan# 1126
Delta R.T. 0.04 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 69 Resp: 5639

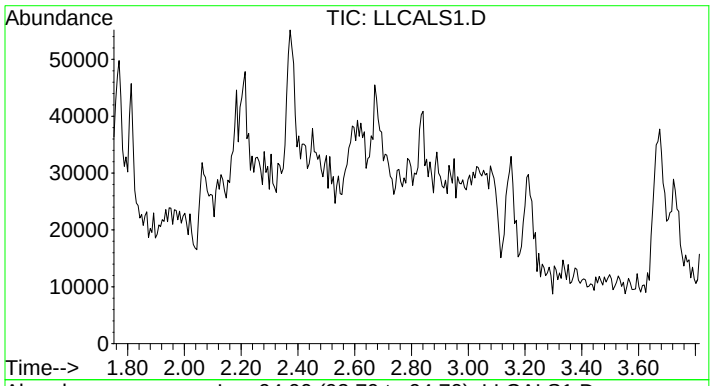
Ion	Ratio	Lower	Upper
69	100		
100	0.0	19.1	59.1#
99	0.0	0.0	40.0

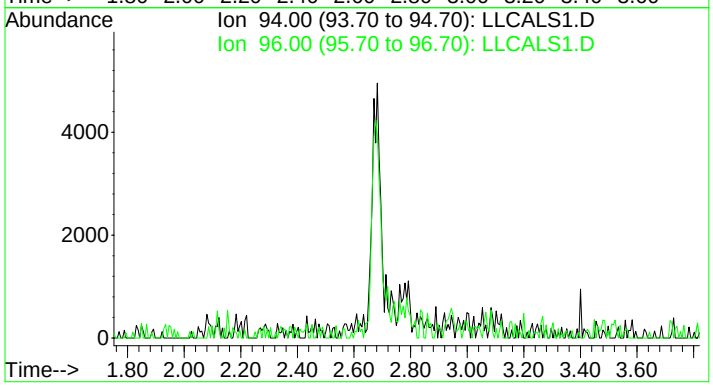


After Manual Integration

RJ 11/20/2019

DGS 11/20/2019





#5
Bromomethane
Concen: Below Cal
Expected RT: 2.67 min

Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

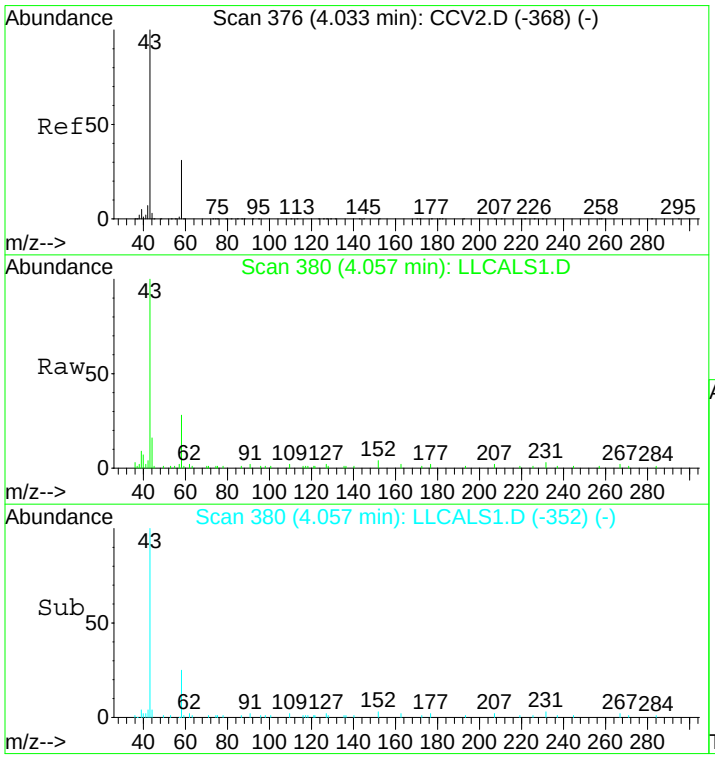
Tgt Ion: 94

Sig	Exp Ratio
94	100
96	96.8

Before Manual Integration

RJ 11/20/2019

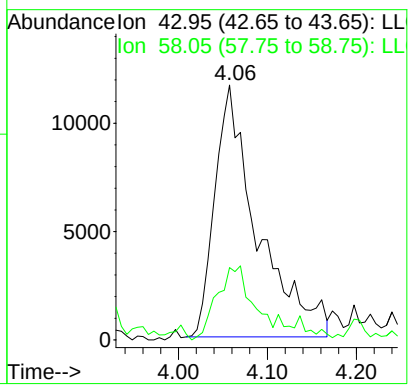
REASON # 1



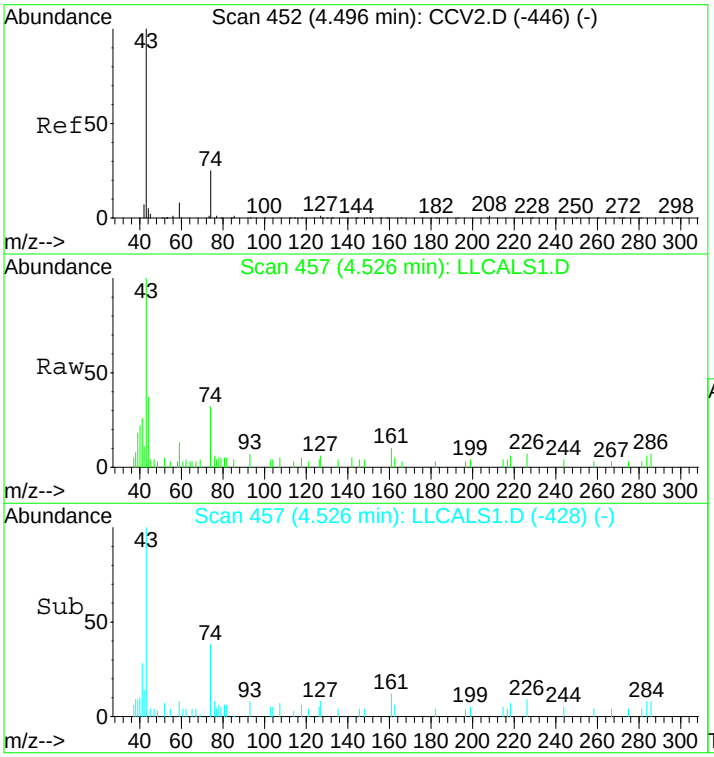
#15
Acetone
Concen: 0.01 mg/kg
RT: 4.06 min Scan# 380
Delta R.T. 0.02 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 43 Resp: 38736

Ion	Ratio	Lower	Upper
43	100		
58	30.2	7.7	47.7



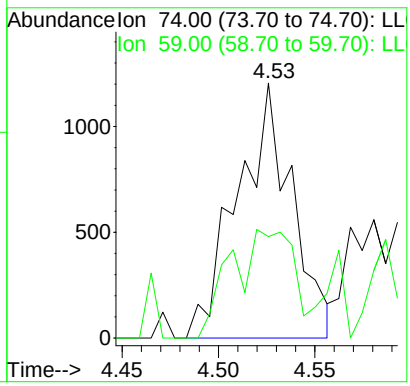
REASON # 2



#19
methylacetate
Concen: 0.00 mg/kg
RT: 4.53 min Scan# 457
Delta R.T. 0.02 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 74 Resp: 2367

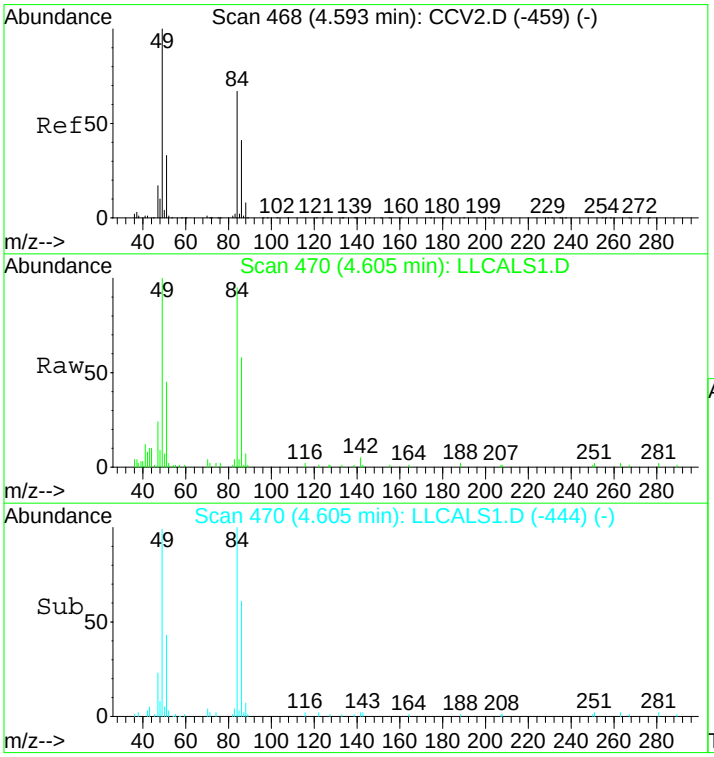
Ion	Ratio	Lower	Upper
74	100		
59	50.6	23.8	63.8



Before Manual Integration

11/20/2019

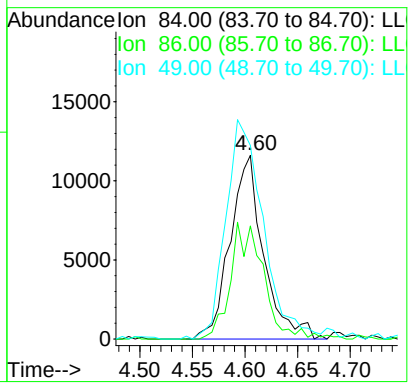
REASON # 2



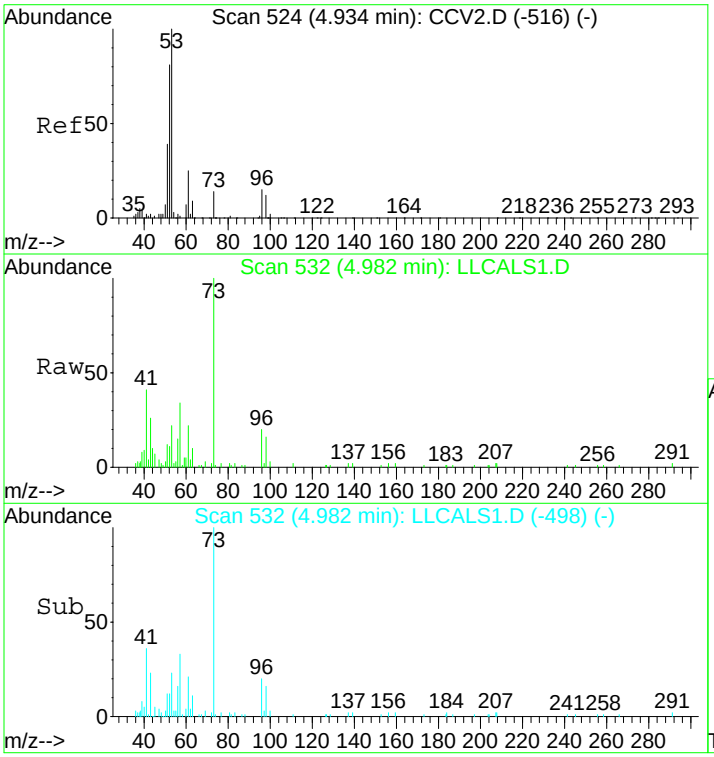
#20
Methylchlorid
Concen: 0.00 mg/kg
RT: 4.60 min Scan# 470
Delta R.T. 0.01 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 84 Resp: 25750

Ion	Ratio	Lower	Upper
84	100		
86	62.4	47.4	87.4
49	136.2	128.2	168.2



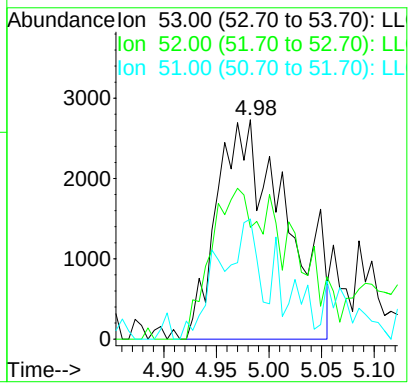
REASON # 2



#21
Acrylonitrile
Concen: 0.00 mg/kg
RT: 4.98 min Scan# 532
Delta R.T. 0.05 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 53 Resp: 12462

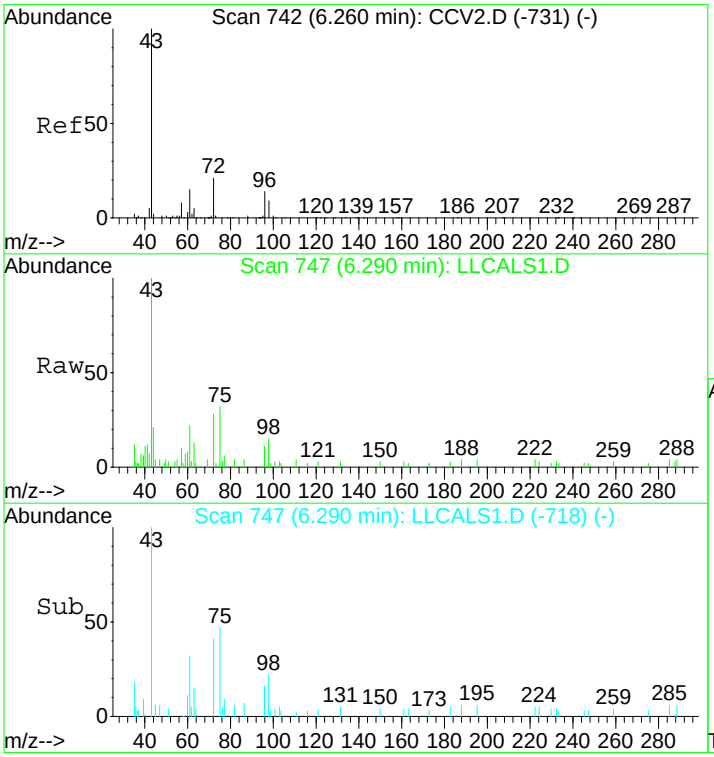
Ion	Ratio	Lower	Upper
53	100		
52	75.8	59.5	99.5
51	31.4	15.9	55.9



Before Manual Integration

11/20/2019

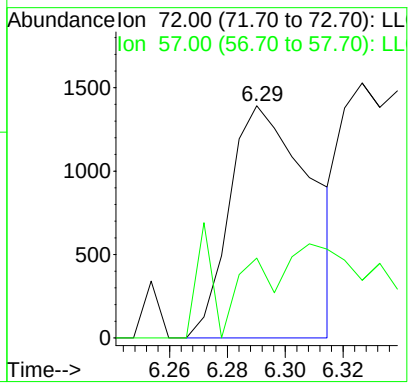
REASON # 2



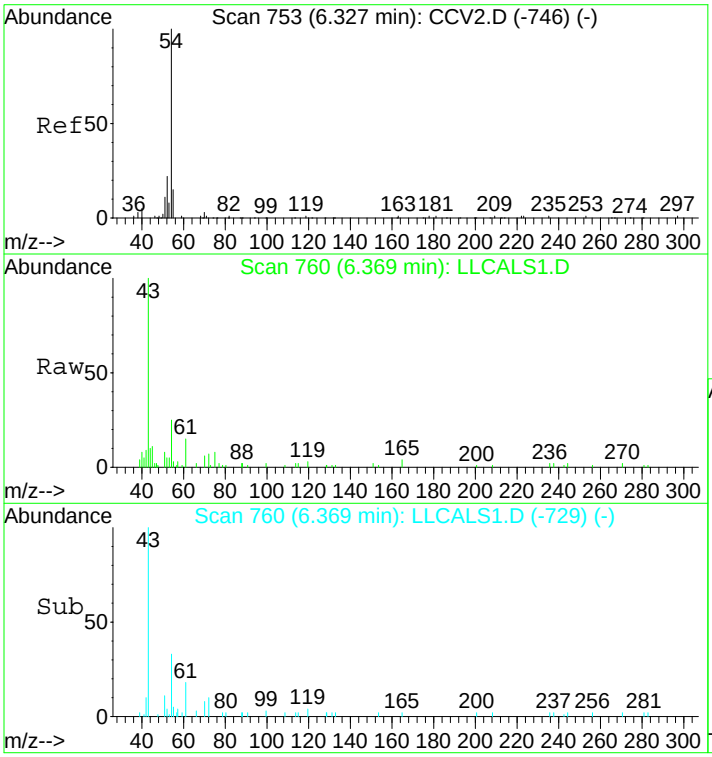
#33
2Butanone
Concen: 0.00 mg/kg
RT: 6.29 min Scan# 747
Delta R.T. 0.02 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 72 Resp: 2706

Ion	Ratio	Lower	Upper
72	100		
57	0.0	17.0	57.0#



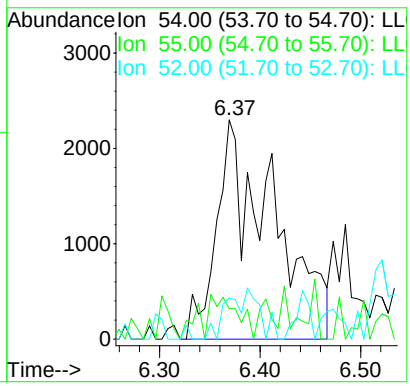
REASON # 2



#34
propionitrile
Concen: 0.01 mg/kg
RT: 6.37 min Scan# 760
Delta R.T. 0.04 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 54 Resp: 8968

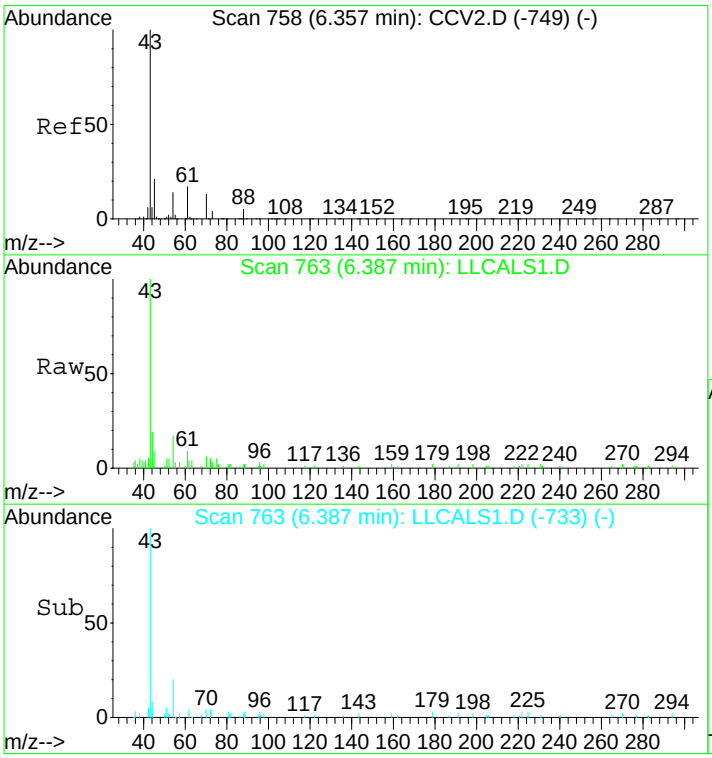
Ion	Ratio	Lower	Upper
54	100		
55	0.0	0.0	35.3
52	13.2	0.0	38.2



Before Manual Integration

RJ 11/20/2019

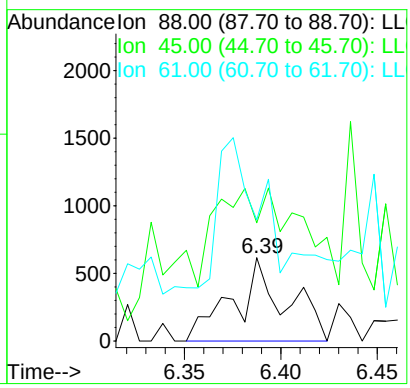
REASON # 2



#35
Ethylacetate
Concen: 0.00 mg/kg
RT: 6.39 min Scan# 763
Delta R.T. 0.03 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

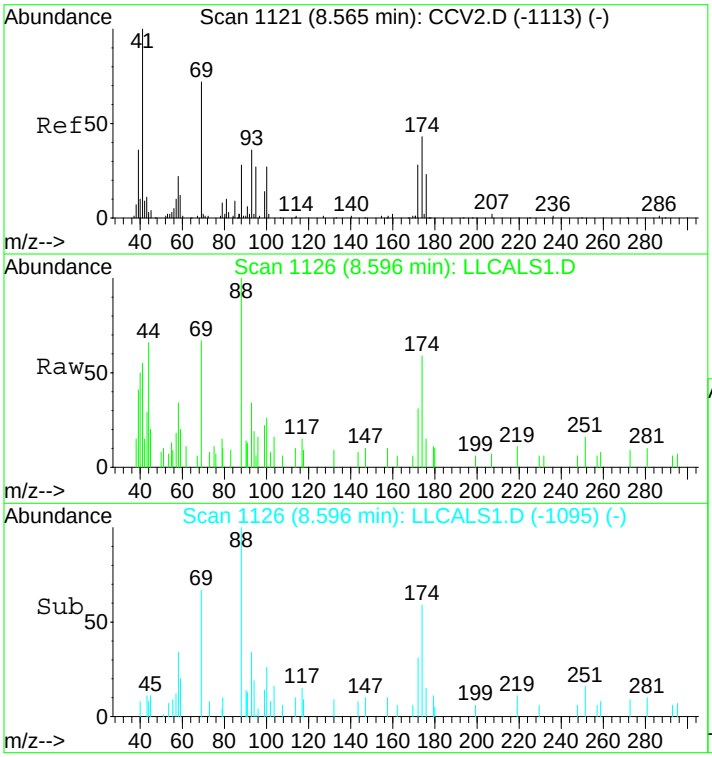
Tgt Ion: 88 Resp: 1159

Ion	Ratio	Lower	Upper
88	100		
45	184.2	354.7	394.7#
61	360.7	351.4	391.4



REASON # 2

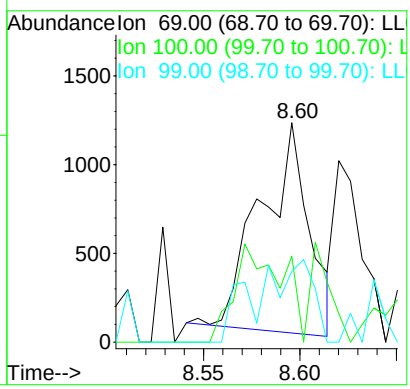
E-1165



#54
methylmethacrylate
Concen: 0.00 mg/kg
RT: 8.60 min Scan# 1126
Delta R.T. 0.04 min
Lab File: LLCALS1.D
Acq: 12 Nov 2019 10:11

Tgt Ion: 69 Resp: 2055

Ion	Ratio	Lower	Upper
69	100		
100	0.0	19.1	59.1#
99	0.0	0.0	40.0



Before Manual Integration

RJ 11/20/2019

REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS2.D Vial: 4
Acq On : 12 Nov 2019 10:40 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.002/0.020 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:51:46 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:44 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	991620	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	784661	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	423961	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	246541	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	53248	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.67	98	988277	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	352264	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	23624	0.0018	mg/kg	93
3) Chloromethan	2.06	50	36117	0.0021	mg/kg	95
4) VinylChlorid	2.21	62	28847	0.0019	mg/kg	94
5) Bromomethane	2.68	94	17301m	0.0020	mg/kg#	98
6) Chloroethane	2.83	64	18085	0.0021	mg/kg	92
7) dichloroflmethane	3.14	67	43490	0.0020	mg/kg	95
8) Trichlorofma	3.21	101	33897	0.0018	mg/kg	99
9) Ethylether	3.66	59	20821	0.0020	mg/kg	97
10) dichlorotfluoroethan	3.67	67	23883	0.0018	mg/kg	95
11) propyleneoxide	3.73	58	32330	0.0185	mg/kg	96
12) Acrolein	3.83	56	19996	0.0087	mg/kg	90
13) 11dichlorthe	3.95	96	21035	0.0018	mg/kg	95
14) Trichlorotfluoroeth	3.97	101	37335	0.0035	mg/kg	97
15) Acetone	4.05	43	64401	0.0195	mg/kg	97
16) Iodomethane	4.12	142	22824	0.0025	mg/kg	96
17) Carbon Dislf	4.21	76	132100	0.0039	mg/kg	99
18) allylchloride	4.44	41	93559	0.0040	mg/kg	97
19) methylacetate	4.53	74	5664	0.0016	mg/kg#	63
20) Methylchlorid	4.60	84	41554	0.0026	mg/kg	86
21) Acrylonitrile	4.96	53	27215	0.0078	mg/kg	87
22) t12dichlorte	4.96	96	26191	0.0020	mg/kg	92
23) tbutylalcohol	4.81	59	135118	0.0970	mg/kg	99
24) MtBE	4.98	73	64629	0.0021	mg/kg	88
25) Hexane	5.33	57	76406	0.0040	mg/kg	98
26) 11dichlorota	5.51	63	49155	0.0021	mg/kg	98
27) Vinylacetate	5.61	43	363627	0.0186	mg/kg	99
28) chloroprene	5.61	53	68644	0.0036	mg/kg	98
29) Diisopether	5.61	45	87606	0.0020	mg/kg#	72
30) ETBE	6.07	59	76513	0.0020	mg/kg	99
31) 22dichloropr	6.22	77	36216	0.0020	mg/kg	93
32) c12dichlorte	6.24	96	28470	0.0020	mg/kg	96
33) 2Butanone	6.30	72	19237m	0.0193	mg/kg	94
34) propionitrile	6.37	54	26245m	0.0196	mg/kg	94
35) Ethylacetate	6.39	88	2759	0.0082	mg/kg#	72
36) methacrylonitrile	6.53	67	13972	0.0034	mg/kg#	83
37) Bromochlorma	6.53	128	11833	0.0018	mg/kg	93
38) Tetrahydofur	6.61	42	63426	0.0185	mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS2.D Vial: 4
Acq On : 12 Nov 2019 10:40 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.002/0.020 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:51:46 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:44 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	44544	0.0020 mg/kg	98
40)	111trichlota	6.85	97	36912	0.0019 mg/kg	96
42)	Cyclohexane	6.92	56	34944	0.0017 mg/kg	94
43)	Carbtetraclo	7.06	119	28329	0.0017 mg/kg	95
44)	11dicloprope	7.07	110	12729	0.0021 mg/kg	91
46)	Benzene	7.32	78	104757	0.0020 mg/kg#	1
47)	12dichlorota	7.34	62	32704	0.0021 mg/kg	91
48)	TAME	7.47	73	61513	0.0019 mg/kg	98
49)	trichloroete	8.13	95	25438	0.0019 mg/kg	95
50)	methylcyclohexane	8.36	83	35012	0.0016 mg/kg	97
51)	12dicloropra	8.40	63	26934	0.0019 mg/kg#	93
52)	23dicl1propene	8.46	75	33519	0.0019 mg/kg	93
53)	Dibromometha	8.56	93	15074	0.0021 mg/kg	96
54)	methylmethacrylate	8.58	69	10413	0.0017 mg/kg	85
55)	14dioxane	8.60	88	11040	0.0909 mg/kg	93
56)	Bromodiclrma	8.75	83	32951	0.0020 mg/kg	98
57)	2Nitropropane	9.02	43	46843	0.0157 mg/kg	97
58)	c13dicloproe	9.33	75	37154	0.0019 mg/kg	95
59)	4Meth2Pentan	9.51	43	217638	0.0189 mg/kg	98
61)	Toluene	9.76	92	67250	0.0020 mg/kg	96
62)	t13Dicloprop	10.04	75	28968	0.0018 mg/kg	97
63)	ethylmethacrylate	10.18	69	48287	0.0034 mg/kg	99
64)	112Triclotha	10.28	83	17918	0.0019 mg/kg#	88
65)	Tetrachlorte	10.48	166	31210	0.0020 mg/kg	96
66)	13Diclorpropa	10.49	76	34964	0.0020 mg/kg	96
68)	2Hexanone	10.62	43	135263	0.0170 mg/kg	98
69)	Clorodibrmta	10.79	129	25715	0.0019 mg/kg	95
70)	12Dibrometha	10.96	107	22329	0.0019 mg/kg	99
71)	Chlorobenzen	11.63	112	81444	0.0022 mg/kg	95
72)	1Clhexane	11.60	91	28077	0.0017 mg/kg	85
73)	1112Tetclota	11.73	131	27398	0.0020 mg/kg	97
74)	Ethylbenzene	11.78	91	118432	0.0019 mg/kg	97
75)	m p-Xylene	11.95	106	94339	0.0039 mg/kg	98
76)	o-Xylene	12.49	106	49394	0.0020 mg/kg	91
77)	Styrene	12.52	104	71641	0.0019 mg/kg	96
78)	Bromoform	12.76	173	14450	0.0017 mg/kg	97
79)	Isopropylben	13.01	105	116492	0.0019 mg/kg	100
81)	cyclohexanone	13.13	55	16670	0.0367 mg/kg	97
83)	Bromobenzene	13.44	156	35113	0.0021 mg/kg	97
84)	1122Tetrclta	13.43	83	29626	0.0020 mg/kg	96
85)	123Triclproa	13.48	75	31712	0.0018 mg/kg	98
86)	14dichloro2butene	13.53	53	7782	0.0018 mg/kg	84
87)	n-Propylbenz	13.60	91	129428	0.0019 mg/kg	100
88)	2chlorotolue	13.72	91	80293	0.0020 mg/kg	96
89)	4chlorotolue	13.88	91	92120	0.0020 mg/kg	95
90)	135Trimebenz	13.86	105	97635	0.0019 mg/kg	95
91)	tbutylbenzen	14.33	119	83836	0.0019 mg/kg	96
92)	124Trimetben	14.39	105	107713	0.0021 mg/kg	90
93)	sbutylbenzen	14.64	105	120395	0.0019 mg/kg	99
94)	13Diclorbenz	14.80	146	67498	0.0021 mg/kg	99
95)	pIsopropylto	14.86	119	101222	0.0019 mg/kg	99
96)	14dichlorobe	14.93	146	70452	0.0022 mg/kg	95
97)	12dichlorobe	15.46	146	62582	0.0020 mg/kg	91
98)	nButylbenzen	15.46	91	92746	0.0020 mg/kg	95
99)	12dibromo3cl	16.58	157	6567	0.0021 mg/kg	98
100)	135Trichlorobenzene	16.89	180	49740	0.0021 mg/kg	98
101)	124Trichlobe	17.71	180	45355	0.0022 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

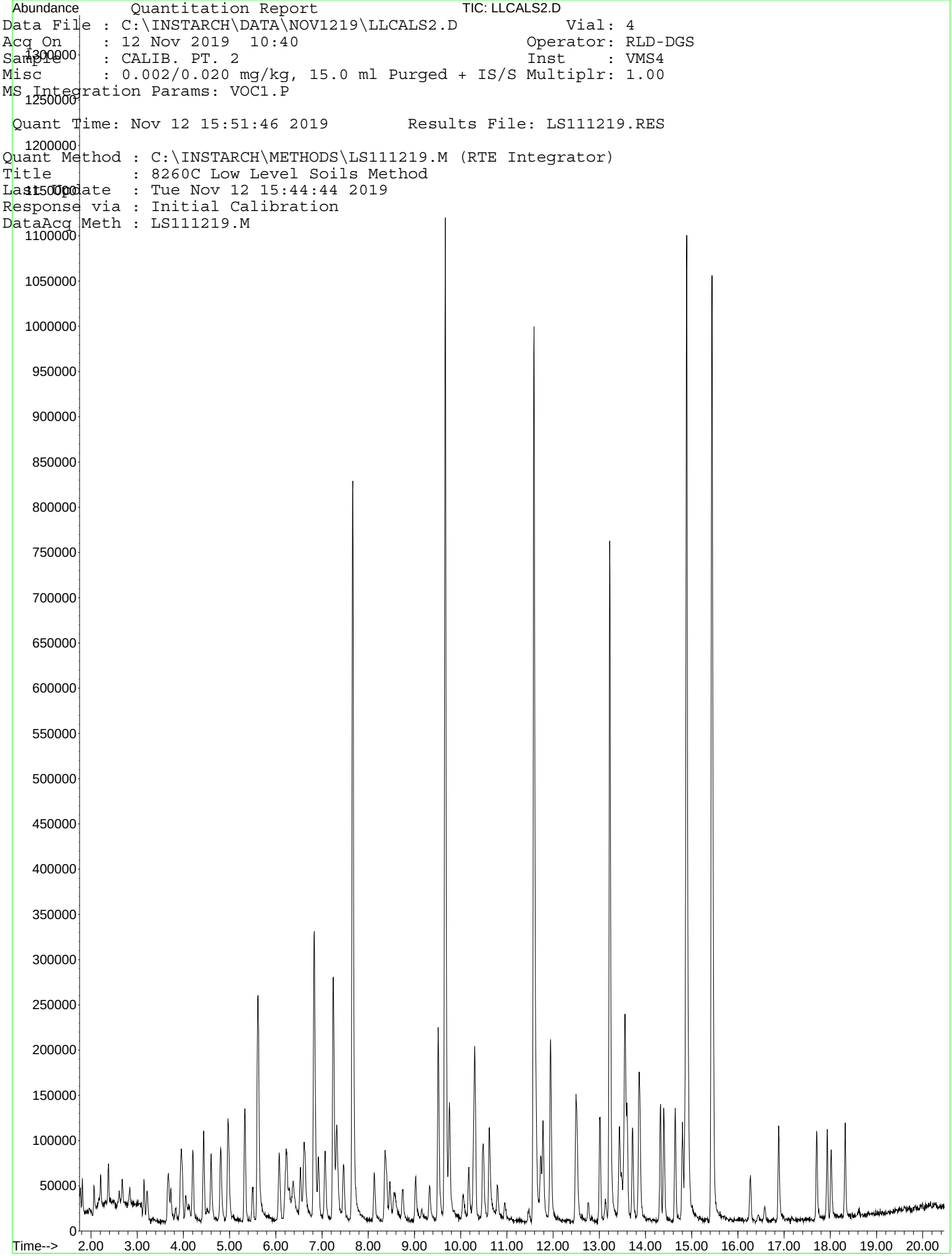
Data File : C:\INSTARCH\DATA\NOV1219\LLCALS2.D Vial: 4
Acq On : 12 Nov 2019 10:40 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.002/0.020 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

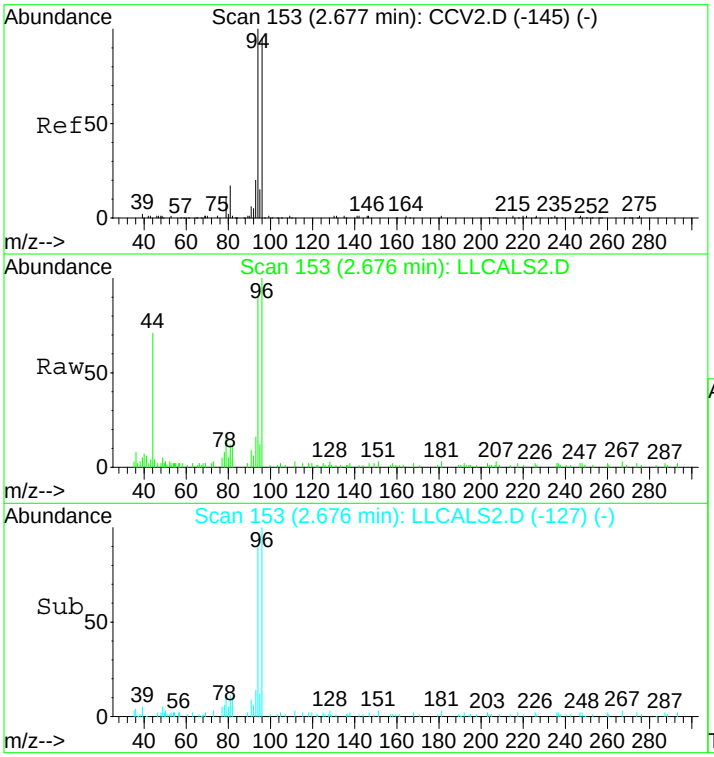
Quant Time: Nov 12 15:51:46 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:44 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	17.93	225	23807	0.0019 mg/kg	96
103) Naphthalene	18.02	128	89369	0.0019 mg/kg	99
104) 123Trichlben	18.32	180	42152	0.0021 mg/kg	98

(#) = qualifier out of range (m) = manual integration

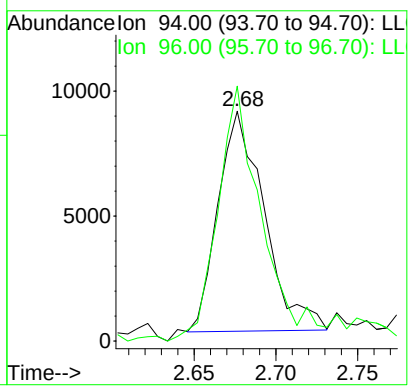

Abundance
Quantitation Report
TIC: LLCALS2.D
Data File : C:\INSTARCH\DATA\NOV1219\LLCALS2.D Vial: 4
Acq On : 12 Nov 2019 10:40 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.002/0.020 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P
Quant Time: Nov 12 15:51:46 2019 Results File: LS111219.RES
Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:44 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
1300000
1250000
1200000
1150000
1100000
1050000
1000000
950000
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00



#5
Bromomethane
Concen: 0.00 mg/kg m
RT: 2.68 min Scan# 153
Delta R.T. 0.01 min
Lab File: LLCALS2.D
Acq: 12 Nov 2019 10:40

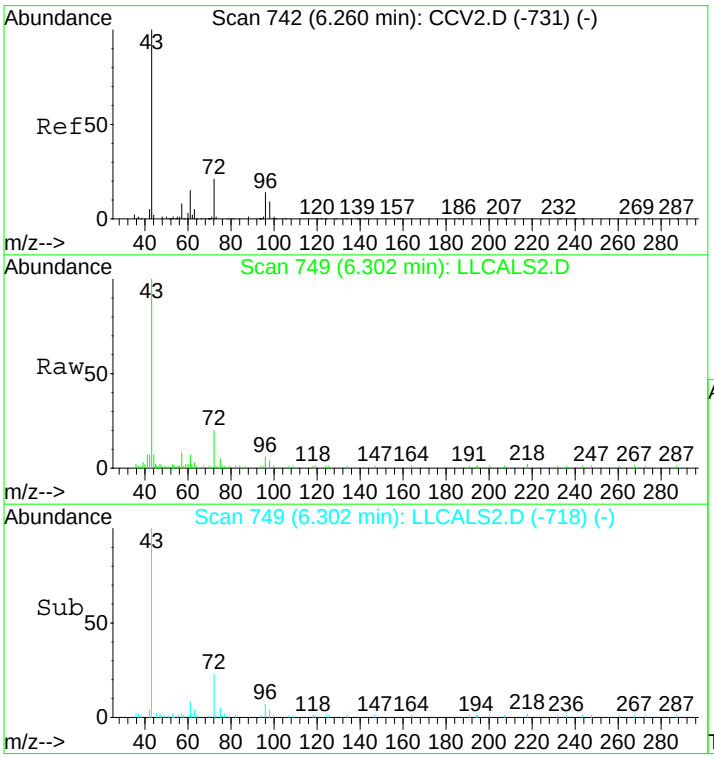
Tgt Ion: 94 Resp: 17301

Ion	Ratio	Lower	Upper
94	100		
96	119.3	76.8	116.8#



After Manual Integration

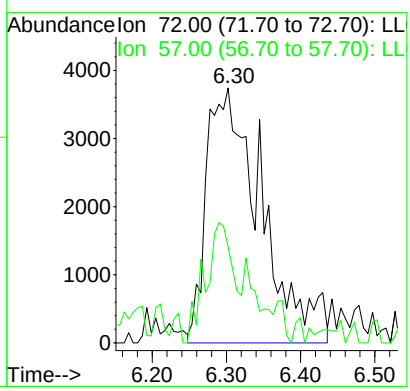
RJ 11/20/2019



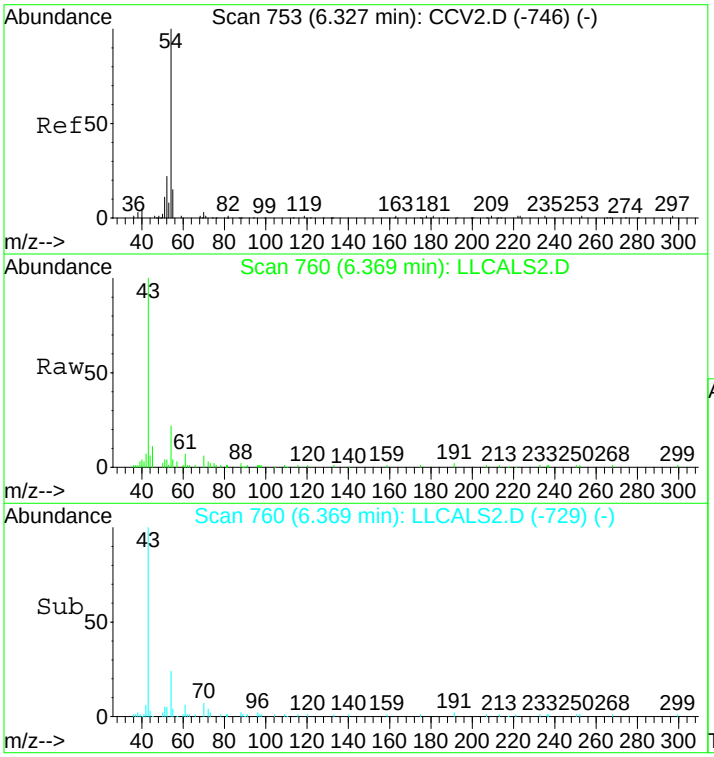
#33
2Butanone
Concen: 0.02 mg/kg m
RT: 6.30 min Scan# 749
Delta R.T. 0.04 min
Lab File: LLCALS2.D
Acq: 12 Nov 2019 10:40

Tgt Ion: 72 Resp: 19237

Ion	Ratio	Lower	Upper
72	100		
57	35.6	17.0	57.0



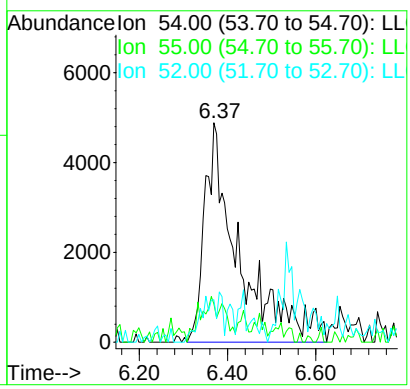
DGS 11/20/2019



#34
propionitrile
Concen: 0.02 mg/kg m
RT: 6.37 min Scan# 760
Delta R.T. 0.04 min
Lab File: LLCALS2.D
Acq: 12 Nov 2019 10:40

Tgt Ion: 54 Resp: 26245

Ion	Ratio	Lower	Upper
54	100		
55	14.4	0.0	35.3
52	12.5	0.0	38.2



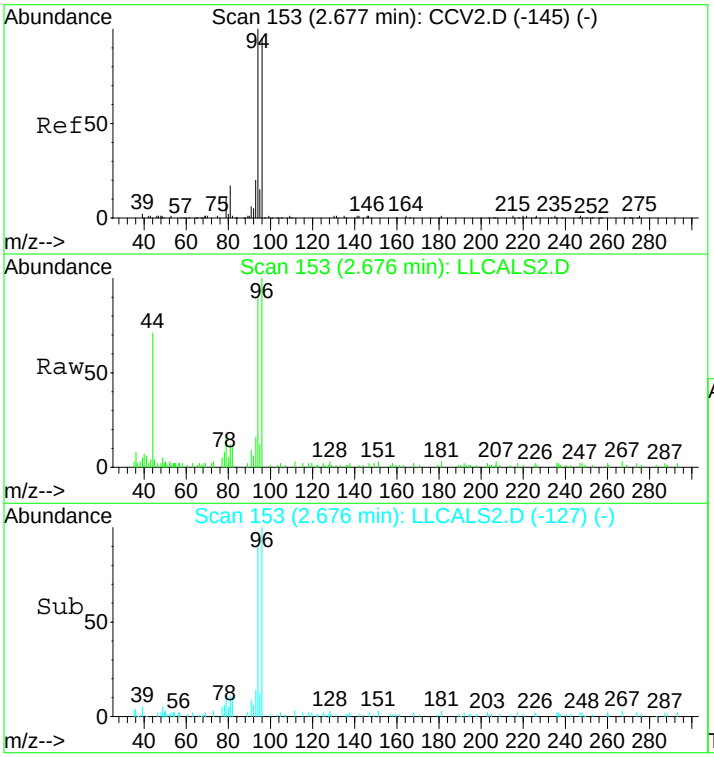
After Manual Integration

11/20/2019

11/20/2019

Before Manual Integration

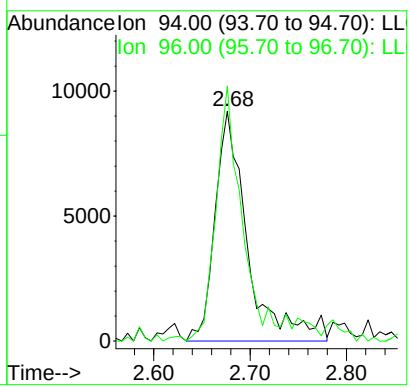
RJ 11/20/2019



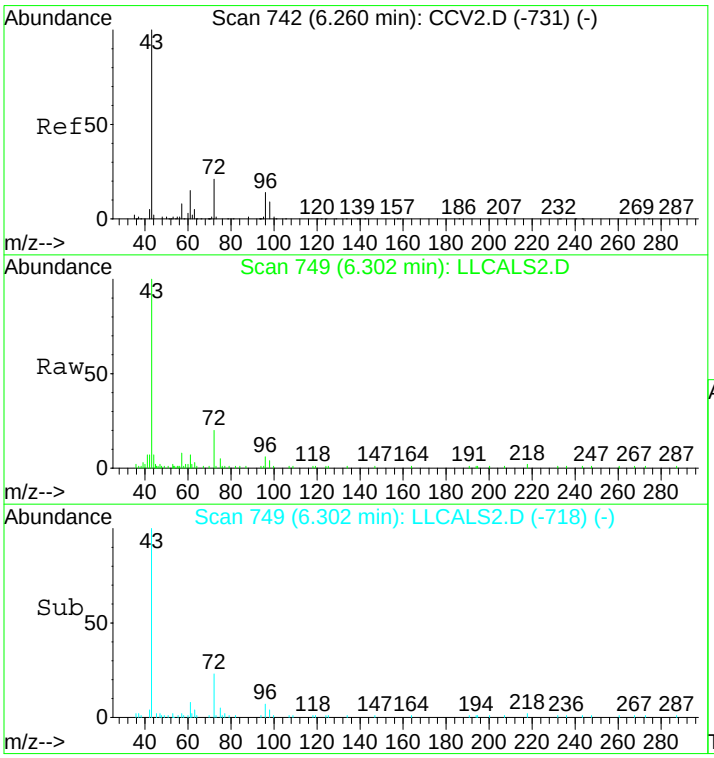
#5
Bromomethane
Concen: 0.00 mg/kg
RT: 2.68 min Scan# 153
Delta R.T. 0.01 min
Lab File: LLCALS2.D
Acq: 12 Nov 2019 10:40

Tgt Ion: 94 Resp: 21674

Ion	Ratio	Lower	Upper
94	100		
96	95.2	76.8	116.8



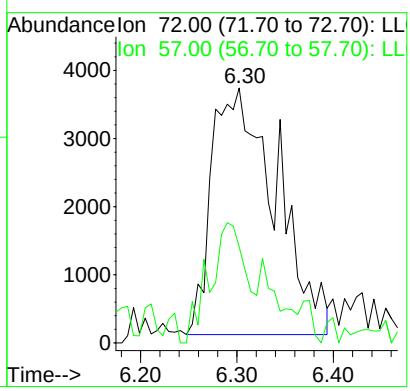
REASON # 2



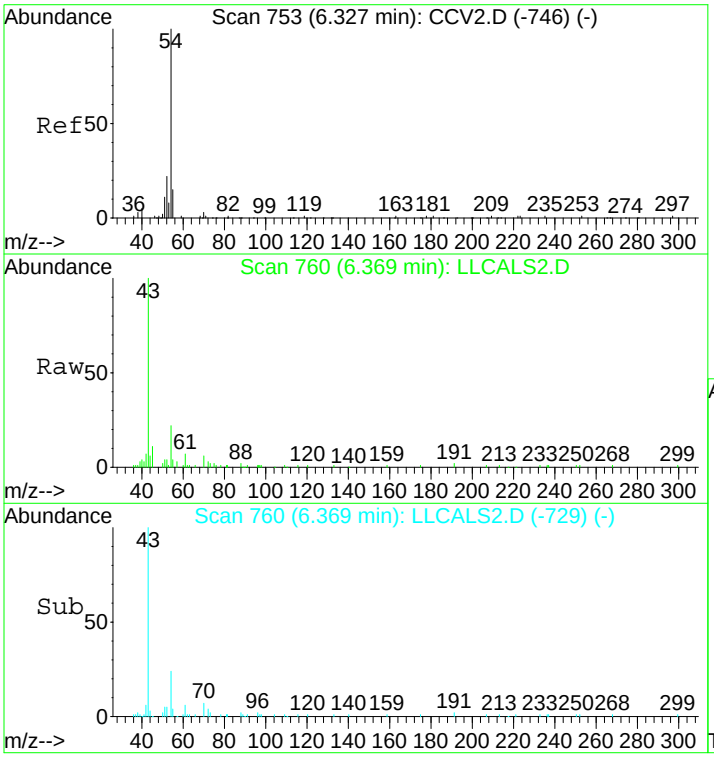
#33
2Butanone
Concen: 0.02 mg/kg
RT: 6.30 min Scan# 749
Delta R.T. 0.04 min
Lab File: LLCALS2.D
Acq: 12 Nov 2019 10:40

Tgt Ion: 72 Resp: 16821

Ion	Ratio	Lower	Upper
72	100		
57	40.8	17.0	57.0



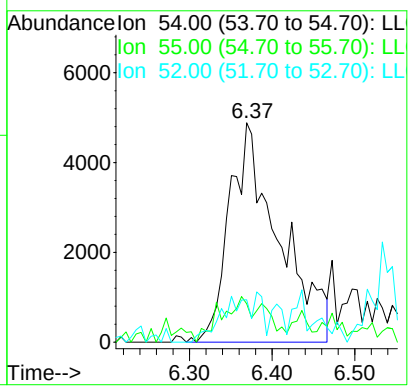
REASON # 2



#34
propionitrile
Concen: 0.01 mg/kg
RT: 6.37 min Scan# 760
Delta R.T. 0.04 min
Lab File: LLCALS2.D
Acq: 12 Nov 2019 10:40

Tgt Ion: 54 Resp: 20225

Ion	Ratio	Lower	Upper
54	100		
55	18.7	0.0	35.3
52	16.2	0.0	38.2



Before Manual Integration

RJ 11/20/2019

REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS3.D Vial: 5
Acq On : 12 Nov 2019 12:11 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.005/0.050 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:07 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	916714	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	720382	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	402124	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	231535	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.24	102	46643	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.67	98	930947	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	326344	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	61801	0.0052	mg/kg	97
3) Chloromethan	2.06	50	84322	0.0052	mg/kg	96
4) VinylChlorid	2.21	62	71175	0.0055	mg/kg	99
5) Bromomethane	2.68	94	45790	0.0047	mg/kg	100
6) Chloroethane	2.83	64	44054	0.0056	mg/kg	99
7) dichloroflmethane	3.14	67	108394	0.0056	mg/kg	97
8) Trichlorofma	3.22	101	87490	0.0055	mg/kg	99
9) Ethylether	3.66	59	48375	0.0053	mg/kg	98
10) dichlorotfluoroethan	3.67	67	60078	0.0051	mg/kg	97
11) propyleneoxide	3.72	58	77420	0.0483	mg/kg	96
12) Acrolein	3.83	56	54481	0.0267	mg/kg	98
13) 11dichlorthe	3.94	96	53524	0.0054	mg/kg	98
14) Trichlorotfluoroeth	3.97	101	93603	0.0102	mg/kg	97
15) Acetone	4.05	43	162712	0.0508	mg/kg	97
16) Iodomethane	4.12	142	44427	0.0068	mg/kg	98
17) Carbon Dislf	4.20	76	325598	0.0106	mg/kg	100
18) allylchloride	4.43	41	220531	0.0103	mg/kg	98
19) methylacetate	4.51	74	16129	0.0059	mg/kg	97
20) Methylchlorid	4.60	84	75163	0.0040	mg/kg	98
21) Acrylonitrile	4.94	53	79107	0.0284	mg/kg	97
22) t12dichlorte	4.96	96	63310	0.0053	mg/kg	99
23) tbutylalcohol	4.81	59	330653	0.2525	mg/kg	98
24) MtBE	4.98	73	146424	0.0049	mg/kg	96
25) Hexane	5.33	57	158084	0.0083	mg/kg	98
26) 11dichlorota	5.50	63	116214	0.0053	mg/kg	98
27) Vinylacetate	5.60	43	953027	0.0550	mg/kg	99
28) chloroprene	5.61	53	176578	0.0107	mg/kg	97
29) Diisopether	5.61	45	212880	0.0052	mg/kg#	84
30) ETBE	6.07	59	176444	0.0051	mg/kg	99
31) 22dichloropr	6.22	77	80786	0.0049	mg/kg	98
32) c12dichlorte	6.24	96	72668	0.0056	mg/kg	96
33) 2Butanone	6.28	72	50743	0.0740	mg/kg	95
34) propionitrile	6.34	54	64609	0.0632	mg/kg	96
35) Ethylacetate	6.37	88	7620	0.0283	mg/kg	96
36) methacrylonitrile	6.52	67	37510	0.0110	mg/kg	94
37) Bromochlorma	6.53	128	31557	0.0055	mg/kg	98
38) Tetrahydofur	6.60	42	164670	0.0523	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS3.D Vial: 5
Acq On : 12 Nov 2019 12:11 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.005/0.050 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:07 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	107264	0.0053 mg/kg	96
40)	111trichlota	6.85	97	85817	0.0049 mg/kg	96
42)	Cyclohexane	6.92	56	90325	0.0052 mg/kg	96
43)	Carbtetraclo	7.06	119	71590	0.0052 mg/kg	98
44)	11dicloprope	7.07	110	28604	0.0052 mg/kg	98
46)	Benzene	7.32	78	250317	0.0053 mg/kg	96
47)	12dichlorota	7.34	62	72942	0.0048 mg/kg	96
48)	TAME	7.46	73	146018	0.0051 mg/kg	99
49)	trichloroete	8.12	95	59700	0.0049 mg/kg	100
50)	methylcyclohexane	8.36	83	94283	0.0053 mg/kg	96
51)	12dicloropra	8.39	63	69538	0.0054 mg/kg	94
52)	23dicl1propene	8.47	75	83380	0.0052 mg/kg	97
53)	Dibromometha	8.55	93	35394	0.0059 mg/kg	92
54)	methylmethacrylate	8.57	69	29149	0.0069 mg/kg	95
55)	14dioxane	8.58	88	28000	0.2620 mg/kg	92
56)	Bromodiclrma	8.75	83	77194	0.0052 mg/kg	97
57)	2Nitropropane	9.02	43	133863	0.0551 mg/kg	96
58)	c13dicloproe	9.32	75	90091	0.0053 mg/kg	100
59)	4Meth2Pentan	9.51	43	577482	0.0541 mg/kg	99
61)	Toluene	9.76	92	168937	0.0054 mg/kg	98
62)	t13Dicloprop	10.04	75	74491	0.0055 mg/kg	96
63)	ethylmethacrylate	10.17	69	129357	0.0110 mg/kg	98
64)	112Triclotha	10.28	83	44950	0.0052 mg/kg	96
65)	Tetrachlorte	10.48	166	71279	0.0050 mg/kg	99
66)	13Diclorpropa	10.50	76	83836	0.0052 mg/kg	98
68)	2Hexanone	10.62	43	383867	0.0587 mg/kg	99
69)	Clorodibrmta	10.80	129	61997	0.0055 mg/kg	97
70)	12Dibrometha	10.95	107	52283	0.0053 mg/kg	91
71)	Chlorobenzen	11.63	112	179609	0.0051 mg/kg	96
72)	1Clhexane	11.60	91	69937	0.0049 mg/kg	94
73)	1112Tetclota	11.73	131	64755	0.0052 mg/kg	98
74)	Ethylbenzene	11.78	91	288007	0.0053 mg/kg	99
75)	m p-Xylene	11.94	106	227217	0.0105 mg/kg	99
76)	o-Xylene	12.50	106	118386	0.0054 mg/kg	98
77)	Styrene	12.51	104	174794	0.0053 mg/kg	97
78)	Bromoform	12.76	173	38544	0.0057 mg/kg	94
79)	Isopropylben	13.02	105	298139	0.0055 mg/kg	99
81)	cyclohexanone	13.13	55	43911	0.1014 mg/kg	98
83)	Bromobenzene	13.44	156	81284	0.0050 mg/kg	97
84)	1122Tetrclta	13.43	83	71988	0.0051 mg/kg	100
85)	123Triclproa	13.49	75	86390	0.0056 mg/kg	95
86)	14dichloro2butene	13.53	53	19632	0.0050 mg/kg	97
87)	n-Propylbenz	13.60	91	316719	0.0051 mg/kg	99
88)	2chlorotolue	13.72	91	198727	0.0053 mg/kg	100
89)	4chlorotolue	13.88	91	214401	0.0050 mg/kg	95
90)	135Trimebenz	13.86	105	244125	0.0052 mg/kg	100
91)	tbutylbenzen	14.32	119	212678	0.0053 mg/kg	98
92)	124Trimetben	14.40	105	245372	0.0050 mg/kg	99
93)	sbutylbenzen	14.64	105	303899	0.0051 mg/kg	99
94)	13Diclorbenz	14.80	146	158459	0.0051 mg/kg	99
95)	pIsopropylto	14.86	119	264533	0.0054 mg/kg	98
96)	14dichlorobe	14.93	146	154199	0.0050 mg/kg	99
97)	12dichlorobe	15.47	146	152808	0.0051 mg/kg	99
98)	nButylbenzen	15.46	91	215709	0.0049 mg/kg	99
99)	12dibromo3cl	16.58	157	14942	0.0053 mg/kg	97
100)	135Trichlorobenzene	16.89	180	107641	0.0046 mg/kg	98
101)	124Trichlobe	17.71	180	99035	0.0049 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS3.D Vial: 5
Acq On : 12 Nov 2019 12:11 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.005/0.050 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:07 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	56071	0.0048	mg/kg	94
103)	Naphthalene	18.02	128	217273	0.0049	mg/kg	98
104)	123Trichlben	18.32	180	94582	0.0047	mg/kg	99

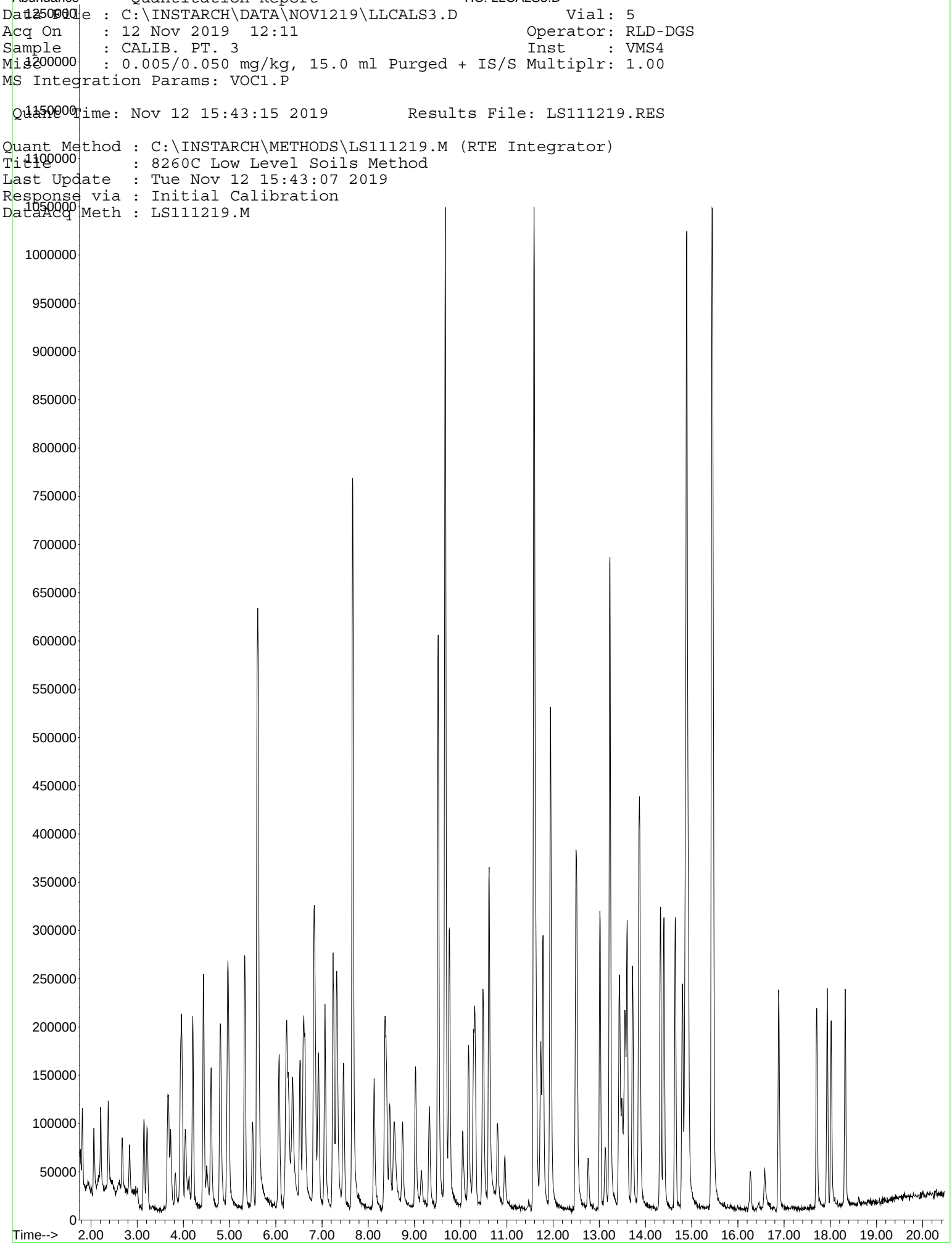
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALS3.D

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS3.D Vial: 5
Acq On : 12 Nov 2019 12:11 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.005/0.050 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:07 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS4.D Vial: 6
Acq On : 12 Nov 2019 12:40 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:28 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	890701	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	689390	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	372004	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	216702	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %		
45) SURR12DCAd4	7.25	102	49228	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	893699	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	306547	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	116382	0.0100 mg/kg	100
3) Chloromethan	2.06	50	141161	0.0089 mg/kg	100
4) VinylChlorid	2.21	62	127355	0.0099 mg/kg	100
5) Bromomethane	2.67	94	85361	0.0092 mg/kg	100
6) Chloroethane	2.83	64	71571	0.0090 mg/kg	100
7) dichloroflmethane	3.14	67	188373	0.0097 mg/kg	100
8) Trichlorofma	3.21	101	174466	0.0110 mg/kg	99
9) Ethylether	3.66	59	91286	0.0102 mg/kg	100
10) dichlorotfluoroethan	3.68	67	118444	0.0103 mg/kg	100
11) propyleneoxide	3.72	58	172219	0.1116 mg/kg	100
12) Acrolein	3.83	56	106507	0.0529 mg/kg	99
13) 11dichlorthe	3.93	96	101808	0.0104 mg/kg	100
14) Trichlorotfluoroeth	3.97	101	193225	0.0215 mg/kg	100
15) Acetone	4.04	43	291064	0.0931 mg/kg	100
16) Iodomethane	4.12	142	93082	0.0159 mg/kg	100
17) Carbon Dislf	4.20	76	583918	0.0193 mg/kg	100
18) allylchloride	4.43	41	399665	0.0191 mg/kg	100
19) methylacetate	4.50	74	32292	0.0117 mg/kg	100
20) Methylchlorid	4.60	84	121322	0.0070 mg/kg	100
21) Acrylonitrile	4.93	53	168912	0.0604 mg/kg	100
22) t12dichlorte	4.96	96	111744	0.0095 mg/kg	100
23) tbutylalcohol	4.80	59	637178	0.4996 mg/kg	100
24) MtBE	4.97	73	277675	0.0097 mg/kg	100
25) Hexane	5.32	57	328122	0.0186 mg/kg	100
26) 11dichlorota	5.49	63	204184	0.0095 mg/kg	100
27) Vinylacetate	5.59	43	1928929	0.1118 mg/kg	100
28) chloroprene	5.61	53	336930	0.0207 mg/kg	100
29) Diisopether	5.61	45	385633	0.0097 mg/kg	99
30) ETBE	6.07	59	326205	0.0096 mg/kg	100
31) 22dichloropr	6.22	77	155934	0.0098 mg/kg	100
32) c12dichlorte	6.24	96	123236	0.0095 mg/kg	100
33) 2Butanone	6.27	72	100207	0.1343 mg/kg	100
34) propionitrile	6.33	54	125637	0.1187 mg/kg	98
35) Ethylacetate	6.36	88	16245	0.0601 mg/kg	99
36) methacrylonitrile	6.52	67	75935	0.0224 mg/kg	99
37) Bromochlorma	6.52	128	58726	0.0103 mg/kg	100
38) Tetrahydofur	6.59	42	318732	0.1030 mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS4.D Vial: 6
Acq On : 12 Nov 2019 12:40 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:28 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	192150	0.0096 mg/kg	100
40)	111trichlota	6.85	97	169943	0.0100 mg/kg	100
42)	Cyclohexane	6.92	56	185824	0.0109 mg/kg	100
43)	Carbtetraclo	7.06	119	143761	0.0107 mg/kg	100
44)	11dicloprope	7.07	110	53857	0.0100 mg/kg	99
46)	Benzene	7.31	78	449054	0.0097 mg/kg	100
47)	12dichlorota	7.34	62	140236	0.0097 mg/kg	100
48)	TAME	7.46	73	267294	0.0096 mg/kg	100
49)	trichloroete	8.12	95	108963	0.0092 mg/kg	100
50)	methylcyclohexane	8.36	83	202209	0.0115 mg/kg	100
51)	12dicloropra	8.39	63	126736	0.0100 mg/kg	99
52)	23dicl1propene	8.46	75	153461	0.0097 mg/kg	100
53)	Dibromometha	8.55	93	63772	0.0104 mg/kg	100
54)	methylmethacrylate	8.56	69	57961	0.0129 mg/kg	100
55)	14dioxane	8.58	88	55408	0.5272 mg/kg	100
56)	Bromodiclrma	8.74	83	142275	0.0098 mg/kg	100
57)	2Nitropropane	9.02	43	269805	0.1114 mg/kg	99
58)	c13dicloproe	9.32	75	169826	0.0101 mg/kg	100
59)	4Meth2Pentan	9.51	43	1076879	0.1017 mg/kg	100
61)	Toluene	9.76	92	291483	0.0094 mg/kg	100
62)	t13Dicloprop	10.04	75	142188	0.0105 mg/kg	100
63)	ethylmethacrylate	10.17	69	246135	0.0210 mg/kg	100
64)	112Triclotha	10.27	83	80747	0.0096 mg/kg	100
65)	Tetrachlorte	10.48	166	129427	0.0093 mg/kg	100
66)	13Diclorpropa	10.50	76	157258	0.0100 mg/kg	100
68)	2Hexanone	10.61	43	737695	0.1129 mg/kg	100
69)	Clorodibrmta	10.80	129	110418	0.0099 mg/kg	100
70)	12Dibrometha	10.96	107	103848	0.0108 mg/kg	100
71)	Chlorobenzen	11.63	112	311595	0.0092 mg/kg	100
72)	1Clhexane	11.60	91	143102	0.0106 mg/kg	100
73)	1112Tetclota	11.73	131	114789	0.0095 mg/kg	100
74)	Ethylbenzene	11.78	91	510226	0.0097 mg/kg	100
75)	m p-Xylene	11.94	106	409494	0.0195 mg/kg	100
76)	o-Xylene	12.49	106	205105	0.0096 mg/kg	100
77)	Styrene	12.51	104	321211	0.0100 mg/kg	100
78)	Bromoform	12.76	173	69994	0.0104 mg/kg	100
79)	Isopropylben	13.01	105	528374	0.0100 mg/kg	100
81)	cyclohexanone	13.13	55	83170	0.2069 mg/kg	100
83)	Bromobenzene	13.44	156	148468	0.0099 mg/kg	100
84)	1122Tetrclta	13.43	83	133234	0.0101 mg/kg	100
85)	123Triclproa	13.49	75	154609	0.0105 mg/kg	100
86)	14dichloro2butene	13.52	53	40081	0.0110 mg/kg	100
87)	n-Propylbenz	13.60	91	595503	0.0103 mg/kg	100
88)	2chlorotolue	13.72	91	343840	0.0097 mg/kg	100
89)	4chlorotolue	13.88	91	399656	0.0101 mg/kg	100
90)	135Trimebenz	13.86	105	440194	0.0101 mg/kg	100
91)	tbutylbenzen	14.33	119	392245	0.0104 mg/kg	100
92)	124Trimetben	14.39	105	445642	0.0098 mg/kg	100
93)	sbutylbenzen	14.64	105	580319	0.0105 mg/kg	100
94)	13Diclorbenz	14.79	146	267399	0.0093 mg/kg	100
95)	pIsopropylto	14.86	119	486583	0.0105 mg/kg	100
96)	14dichlorobe	14.93	146	267671	0.0094 mg/kg	99
97)	12dichlorobe	15.46	146	262151	0.0094 mg/kg	100
98)	nButylbenzen	15.46	91	408937	0.0101 mg/kg	100
99)	12dibromo3cl	16.58	157	28391	0.0108 mg/kg	100
100)	135Trichlorobenzene	16.89	180	199991	0.0095 mg/kg	100
101)	124Trichlobe	17.70	180	176963	0.0095 mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS4.D Vial: 6
Acq On : 12 Nov 2019 12:40 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:28 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	17.94	225	114438	0.0107 mg/kg	100
103) Naphthalene	18.01	128	412224	0.0101 mg/kg	100
104) 123Trichlben	18.32	180	175560	0.0096 mg/kg	100

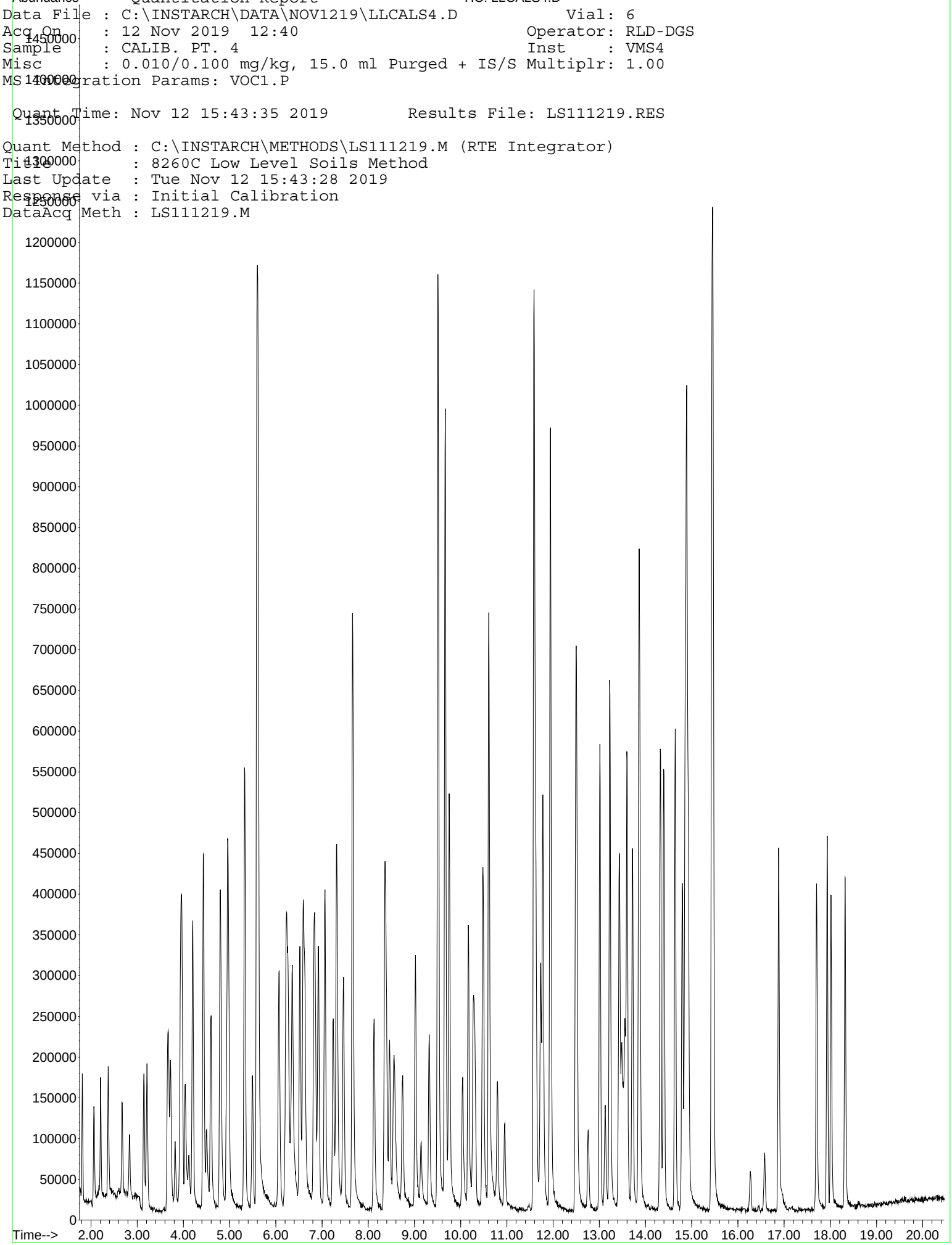
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALS4.D

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS4.D Vial: 6
Acq On : 12 Nov 2019 12:40 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:28 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS5.D Vial: 7
Acq On : 12 Nov 2019 13:09 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.020/0.200 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:51 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:45 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	917870	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	706527	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	391345	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	224407	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	46626	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.67	98	913309	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	323682	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	262787	0.0219	mg/kg	97
3) Chloromethan	2.06	50	325601	0.0199	mg/kg	99
4) VinylChlorid	2.21	62	303899	0.0228	mg/kg	98
5) Bromomethane	2.67	94	150161	0.0157	mg/kg	100
6) Chloroethane	2.83	64	164081	0.0201	mg/kg	95
7) dichloroflmethane	3.14	67	426634	0.0214	mg/kg	99
8) Trichlorofma	3.21	101	388995	0.0237	mg/kg	99
9) Ethylether	3.66	59	205100	0.0221	mg/kg	97
10) dichlorotfluoroethan	3.67	67	265905	0.0225	mg/kg	94
11) propyleneoxide	3.72	58	342347	0.2150	mg/kg	99
12) Acrolein	3.81	56	227952	0.1098	mg/kg	95
13) 11dichlorthe	3.94	96	237972	0.0236	mg/kg	98
14) Trichlorotfluoroeth	3.97	101	446594	0.0482	mg/kg	97
15) Acetone	4.03	43	606773	0.1880	mg/kg	96
16) Iodomethane	4.12	142	334993	0.0556	mg/kg	98
17) Carbon Dislf	4.20	76	1356004	0.0434	mg/kg	99
18) allylchloride	4.43	41	893185	0.0413	mg/kg	99
19) methylacetate	4.50	74	74185	0.0260	mg/kg	89
20) Methylchlorid	4.59	84	266736	0.0150	mg/kg	93
21) Acrylonitrile	4.93	53	368737	0.1279	mg/kg	98
22) t12dichlorte	4.96	96	255510	0.0211	mg/kg	96
23) tbutylalcohol	4.80	59	1335206	1.0137	mg/kg	98
24) MtBE	4.97	73	586505	0.0198	mg/kg	99
25) Hexane	5.33	57	757950	0.0417	mg/kg	99
26) 11dichlorota	5.49	63	462661	0.0208	mg/kg	98
27) Vinylacetate	5.58	43	4168819	0.2343	mg/kg	100
28) chloroprene	5.61	53	774909	0.0462	mg/kg	100
29) Diisopether	5.61	45	850157	0.0206	mg/kg	96
30) ETBE	6.06	59	723332	0.0207	mg/kg	99
31) 22dichloropr	6.22	77	346265	0.0212	mg/kg	98
32) c12dichlorte	6.24	96	280567	0.0209	mg/kg	99
33) 2Butanone	6.25	72	221592	0.2874	mg/kg	93
34) propionitrile	6.32	54	287573	0.2629	mg/kg	99
35) Ethylacetate	6.36	88	36379	0.1305	mg/kg	97
36) methacrylonitrile	6.51	67	167373	0.0476	mg/kg	98
37) Bromochlorma	6.52	128	130335	0.0222	mg/kg	97
38) Tetrahydofur	6.59	42	673884	0.2111	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS5.D Vial: 7
Acq On : 12 Nov 2019 13:09 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.020/0.200 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:51 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:45 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	422602	0.0205 mg/kg	96
40)	111trichlota	6.85	97	390150	0.0223 mg/kg	96
42)	Cyclohexane	6.92	56	442256	0.0252 mg/kg	96
43)	Carbtetraclo	7.06	119	335650	0.0241 mg/kg	99
44)	11dicloprope	7.06	110	124162	0.0224 mg/kg	97
46)	Benzene	7.31	78	1000597	0.0209 mg/kg	97
47)	12dichlorota	7.33	62	304059	0.0203 mg/kg	98
48)	TAME	7.46	73	608878	0.0213 mg/kg	97
49)	trichloroete	8.12	95	258178	0.0212 mg/kg	95
50)	methylcyclohexane	8.36	83	467759	0.0257 mg/kg	99
51)	12dicloropra	8.39	63	271660	0.0207 mg/kg	94
52)	23dicl1propene	8.46	75	347858	0.0213 mg/kg	95
53)	Dibromometha	8.54	93	141552	0.0224 mg/kg	96
54)	methylmethacrylate	8.56	69	135732	0.0292 mg/kg	98
55)	14dioxane	8.58	88	118717	1.0955 mg/kg	96
56)	Bromodiclrma	8.74	83	318041	0.0212 mg/kg	96
57)	2Nitropropane	9.02	43	615713	0.2466 mg/kg	97
58)	c13dicloproe	9.32	75	379629	0.0219 mg/kg	97
59)	4Meth2Pentan	9.51	43	2281498	0.2088 mg/kg	99
61)	Toluene	9.75	92	649997	0.0203 mg/kg	97
62)	t13Dicloprop	10.04	75	315845	0.0226 mg/kg	97
63)	ethylmethacrylate	10.17	69	561171	0.0464 mg/kg	99
64)	112Triclotha	10.27	83	178325	0.0205 mg/kg	97
65)	Tetrachlorte	10.48	166	299820	0.0209 mg/kg	98
66)	13Diclorpropa	10.49	76	339991	0.0210 mg/kg	97
68)	2Hexanone	10.60	43	1636459	0.2444 mg/kg	99
69)	Clorodibrmta	10.80	129	255666	0.0225 mg/kg	99
70)	12Dibrometha	10.95	107	221064	0.0224 mg/kg	95
71)	Chlorobenzen	11.63	112	699887	0.0203 mg/kg	99
72)	1Clhexane	11.59	91	324992	0.0235 mg/kg	100
73)	1112Tetclota	11.73	131	257230	0.0207 mg/kg	98
74)	Ethylbenzene	11.78	91	1196279	0.0221 mg/kg	99
75)	m p-Xylene	11.94	106	930765	0.0432 mg/kg	97
76)	o-Xylene	12.49	106	469305	0.0215 mg/kg	97
77)	Styrene	12.51	104	736332	0.0225 mg/kg	100
78)	Bromoform	12.76	173	161832	0.0235 mg/kg	98
79)	Isopropylben	13.01	105	1226647	0.0226 mg/kg	100
81)	cyclohexanone	13.13	55	168645	0.3987 mg/kg	98
83)	Bromobenzene	13.44	156	326998	0.0207 mg/kg	99
84)	1122Tetrclta	13.42	83	287555	0.0208 mg/kg	98
85)	123Triclproa	13.49	75	342882	0.0220 mg/kg	97
86)	14dichloro2butene	13.51	53	79427	0.0207 mg/kg	86
87)	n-Propylbenz	13.60	91	1350525	0.0223 mg/kg	99
88)	2chlorotolue	13.71	91	789793	0.0212 mg/kg	100
89)	4chlorotolue	13.88	91	884124	0.0212 mg/kg	98
90)	135Trimebenz	13.86	105	1004438	0.0219 mg/kg	100
91)	tbutylbenzen	14.32	119	896324	0.0225 mg/kg	99
92)	124Trimetben	14.39	105	1004543	0.0209 mg/kg	99
93)	sbutylbenzen	14.64	105	1333798	0.0230 mg/kg	100
94)	13Diclorbenz	14.79	146	600602	0.0198 mg/kg	99
95)	pIsopropylto	14.86	119	1088907	0.0223 mg/kg	99
96)	14dichlorobe	14.92	146	589183	0.0196 mg/kg	98
97)	12dichlorobe	15.46	146	570729	0.0195 mg/kg	98
98)	nButylbenzen	15.46	91	947372	0.0222 mg/kg	99
99)	12dibromo3cl	16.57	157	65314	0.0236 mg/kg	97
100)	135Trichlorobenzene	16.88	180	448426	0.0202 mg/kg	99
101)	124Trichlobe	17.70	180	395857	0.0202 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS5.D Vial: 7
Acq On : 12 Nov 2019 13:09 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.020/0.200 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:51 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:45 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

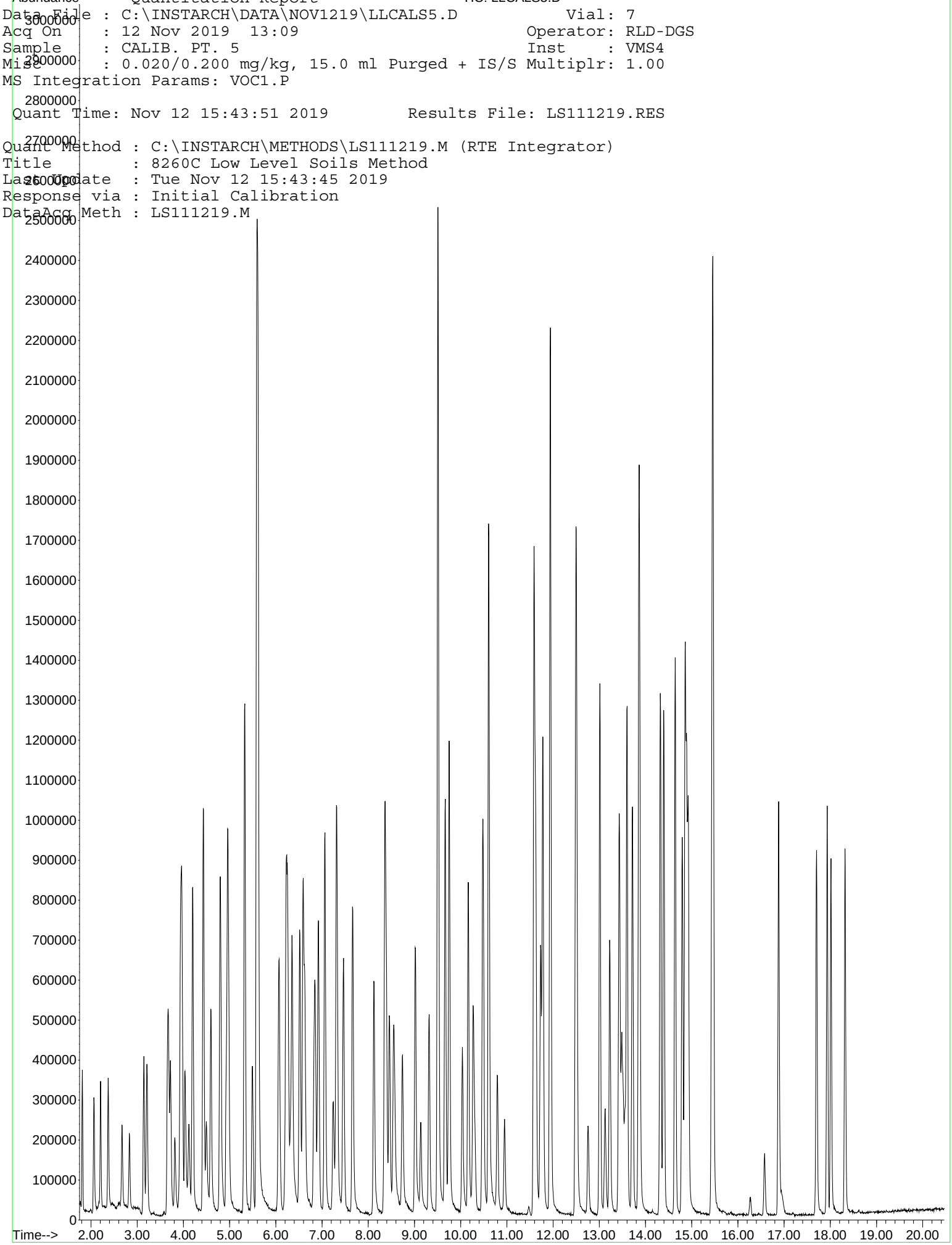
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	258969	0.0231	mg/kg	99
103)	Naphthalene	18.01	128	907812	0.0211	mg/kg	98
104)	123Trichlben	18.32	180	393800	0.0205	mg/kg	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS5.D Vial: 7
Acq On : 12 Nov 2019 13:09 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.020/0.200 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:43:51 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:45 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS6.D Vial: 8
Acq On : 12 Nov 2019 13:38 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:44:05 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:58 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1000822	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.58	117	766008	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	421382	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	248149	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	51436	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.67	98	1002500	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	351246	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	416479	0.0312	mg/kg	98
3) Chloromethan	2.06	50	506185	0.0284	mg/kg	98
4) VinylChlorid	2.21	62	472523	0.0316	mg/kg	97
5) Bromomethane	2.68	94	195675	0.0196	mg/kg	99
6) Chloroethane	2.83	64	260983	0.0293	mg/kg	99
7) dichloroflmethane	3.14	67	672126	0.0305	mg/kg	99
8) Trichlorofma	3.21	101	613918	0.0331	mg/kg	100
9) Ethylether	3.66	59	322889	0.0313	mg/kg	99
10) dichlorotfluoroethan	3.67	67	424324	0.0321	mg/kg	95
11) propyleneoxide	3.72	58	475412	0.2698	mg/kg	98
12) Acrolein	3.81	56	355183	0.1539	mg/kg	95
13) 11dichlorthe	3.93	96	368851	0.0323	mg/kg	98
14) Trichlorotfluoroeth	3.97	101	689193	0.0656	mg/kg	97
15) Acetone	4.03	43	941414	0.2707	mg/kg	99
16) Iodomethane	4.12	142	659321	0.0932	mg/kg	98
17) Carbon Dislf	4.20	76	2132045	0.0615	mg/kg	100
18) allylchloride	4.43	41	1411262	0.0594	mg/kg	99
19) methylacetate	4.50	74	112847	0.0342	mg/kg	93
20) Methylchlorid	4.60	84	405078	0.0220	mg/kg	96
21) Acrylonitrile	4.93	53	565531	0.1704	mg/kg	98
22) t12dichlorte	4.96	96	405833	0.0304	mg/kg	97
23) tbutylalcohol	4.80	59	1986962	1.3798	mg/kg	97
24) MtBE	4.98	73	932634	0.0289	mg/kg	99
25) Hexane	5.32	57	1145871	0.0573	mg/kg	99
26) 11dichlorota	5.49	63	714198	0.0292	mg/kg	99
27) Vinylacetate	5.58	43	6342207	0.3160	mg/kg	99
28) chloroprene	5.61	53	1207578	0.0640	mg/kg	98
29) Diisopether	5.61	45	1336349	0.0296	mg/kg#	90
30) ETBE	6.07	59	1168189	0.0304	mg/kg	99
31) 22dichloropr	6.22	77	548149	0.0304	mg/kg	99
32) c12dichlorte	6.23	96	444067	0.0301	mg/kg	98
33) 2Butanone	6.25	72	337295	0.3690	mg/kg	95
34) propionitrile	6.33	54	435419	0.3435	mg/kg	98
35) Ethylacetate	6.35	88	52243	0.1620	mg/kg#	85
36) methacrylonitrile	6.52	67	265387	0.0667	mg/kg	98
37) Bromochlorma	6.52	128	204361	0.0313	mg/kg	97
38) Tetrahydofur	6.59	42	1000616	0.2844	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS6.D Vial: 8
Acq On : 12 Nov 2019 13:38 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:44:05 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:58 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.62	83	673416	0.0298	mg/kg	96
40)	111trichlota	6.86	97	615087	0.0315	mg/kg	98
42)	Cyclohexane	6.92	56	680978	0.0338	mg/kg	98
43)	Carbtetraclo	7.06	119	535598	0.0339	mg/kg	99
44)	11dicloprope	7.06	110	194570	0.0314	mg/kg	100
46)	Benzene	7.31	78	1563626	0.0297	mg/kg	97
47)	12dichlorota	7.33	62	473454	0.0289	mg/kg	97
48)	TAME	7.46	73	962381	0.0304	mg/kg	97
49)	trichloroete	8.12	95	405148	0.0302	mg/kg	97
50)	methylcyclohexane	8.36	83	760152	0.0362	mg/kg	97
51)	12dicloropra	8.39	63	436443	0.0303	mg/kg	95
52)	23dicl1propene	8.46	75	561514	0.0312	mg/kg	96
53)	Dibromometha	8.54	93	225663	0.0320	mg/kg	94
54)	methylmethacrylate	8.56	69	220908	0.0399	mg/kg	97
55)	14dioxane	8.58	88	182154	1.5127	mg/kg	97
56)	Bromodiclrma	8.74	83	511597	0.0309	mg/kg	97
57)	2Nitropropane	9.02	43	962144	0.3377	mg/kg	98
58)	c13dicloproe	9.31	75	616020	0.0320	mg/kg	97
59)	4Meth2Pentan	9.51	43	3419322	0.2845	mg/kg	99
61)	Toluene	9.75	92	1032142	0.0295	mg/kg	99
62)	t13Dicloprop	10.04	75	509969	0.0326	mg/kg	99
63)	ethylmethacrylate	10.17	69	892633	0.0656	mg/kg	99
64)	112Triclotha	10.27	83	280588	0.0294	mg/kg	98
65)	Tetrachlorte	10.48	166	472864	0.0300	mg/kg	99
66)	13Diclorpropa	10.49	76	543417	0.0304	mg/kg	96
68)	2Hexanone	10.60	43	2469976	0.3258	mg/kg	98
69)	Clorodibrmta	10.79	129	415880	0.0329	mg/kg	99
70)	12Dibrometha	10.95	107	349349	0.0319	mg/kg	96
71)	Chlorobenzen	11.63	112	1094635	0.0291	mg/kg	100
72)	1Clhexane	11.59	91	528241	0.0340	mg/kg	97
73)	1112Tetclota	11.73	131	409957	0.0302	mg/kg	98
74)	Ethylbenzene	11.78	91	1872408	0.0313	mg/kg	100
75)	m p-Xylene	11.94	106	1463689	0.0617	mg/kg	97
76)	o-Xylene	12.49	106	725098	0.0302	mg/kg	99
77)	Styrene	12.51	104	1170666	0.0322	mg/kg	99
78)	Bromoform	12.76	173	262167	0.0339	mg/kg	97
79)	Isopropylben	13.01	105	1923517	0.0318	mg/kg	99
81)	cyclohexanone	13.12	55	261265	0.5740	mg/kg	99
83)	Bromobenzene	13.43	156	511443	0.0298	mg/kg	98
84)	1122Tetrclta	13.42	83	438197	0.0292	mg/kg	96
85)	123Triclproa	13.48	75	527941	0.0309	mg/kg	96
86)	14dichloro2butene	13.52	53	137505	0.0330	mg/kg	93
87)	n-Propylbenz	13.60	91	2100789	0.0315	mg/kg	98
88)	2chlorotolue	13.71	91	1245536	0.0307	mg/kg	100
89)	4chlorotolue	13.87	91	1387422	0.0305	mg/kg	98
90)	135Trimebenz	13.86	105	1571730	0.0312	mg/kg	100
91)	tbutylbenzen	14.32	119	1414574	0.0322	mg/kg	99
92)	124Trimetben	14.39	105	1565300	0.0300	mg/kg	99
93)	sbutylbenzen	14.64	105	2047035	0.0319	mg/kg	99
94)	13Diclorbenz	14.79	146	927339	0.0284	mg/kg	98
95)	pIsopropylto	14.86	119	1703619	0.0317	mg/kg	99
96)	14dichlorobe	14.93	146	926759	0.0288	mg/kg	98
97)	12dichlorobe	15.46	146	897198	0.0287	mg/kg	97
98)	nButylbenzen	15.46	91	1480868	0.0316	mg/kg	100
99)	12dibromo3cl	16.58	157	96007	0.0311	mg/kg	99
100)	135Trichlorobenzene	16.88	180	686476	0.0286	mg/kg	99
101)	124Trichlobe	17.70	180	624939	0.0295	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS6.D Vial: 8
Acq On : 12 Nov 2019 13:38 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:44:05 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:58 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	405977	0.0326	mg/kg	100
103)	Naphthalene	18.01	128	1423386	0.0304	mg/kg	99
104)	123Trichlben	18.32	180	609984	0.0294	mg/kg	98

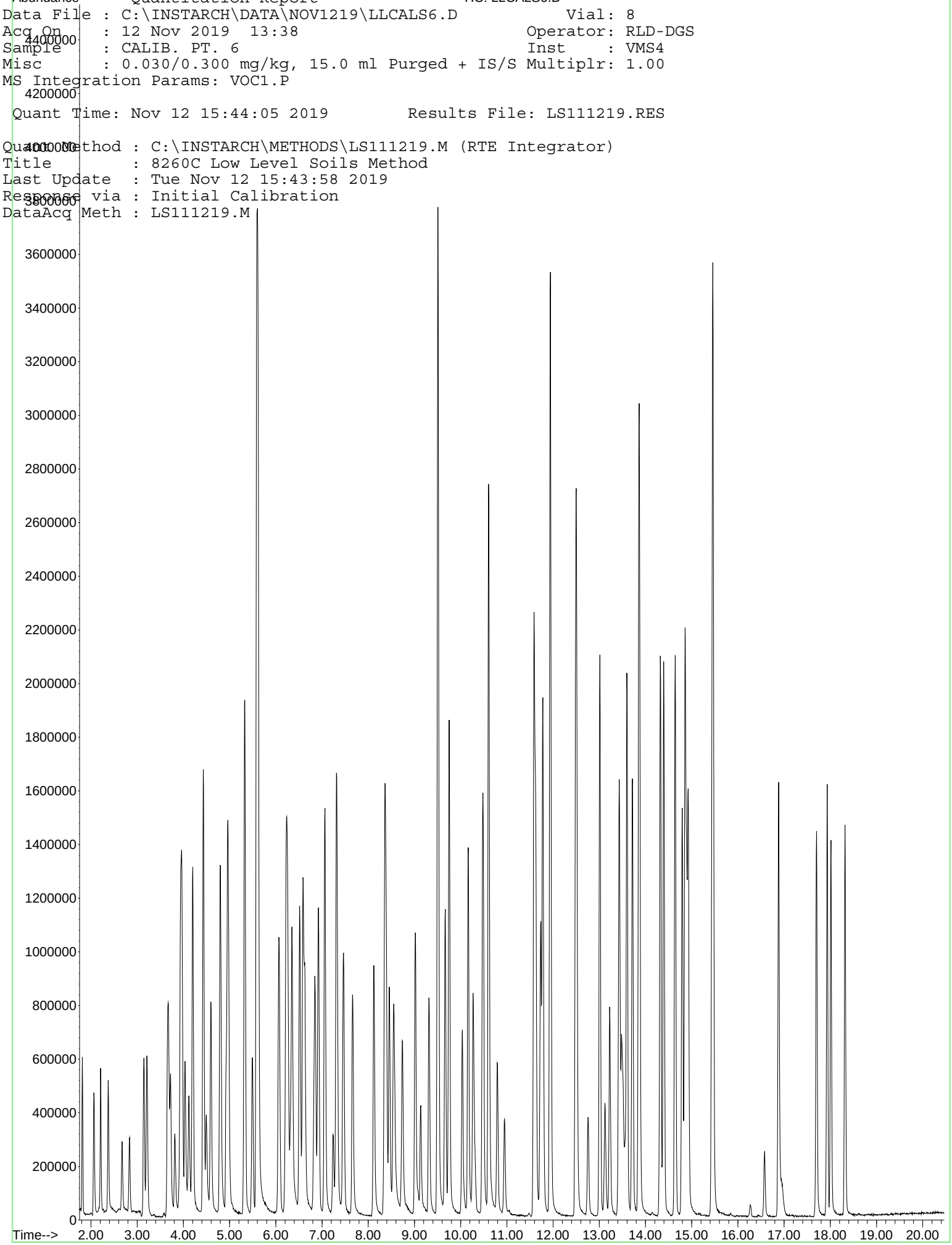
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALS6.D

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS6.D Vial: 8
Acq On : 12 Nov 2019 13:38 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:44:05 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:43:58 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS7.D Vial: 9
Acq On : 12 Nov 2019 14:07 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 0.040/0.400 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 14:28:26 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 09:10:18 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	999797	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.58	117	771834	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	428025	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.82	113	242879	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	50605	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.67	98	995024	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	352688	0.018	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 90 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	539366	0.0289	mg/kg	99
3) Chloromethan	2.06	50	650720	0.0228	mg/kg	98
4) VinylChlorid	2.21	62	614946	0.0290	mg/kg	99
5) Bromomethane	2.67	94	260188	0.0297	mg/kg	93
6) Chloroethane	2.83	64	348212	0.0303	mg/kg	98
7) dichloroflmethane	3.14	67	874956	0.0297	mg/kg	97
8) Trichlorofma	3.21	101	796608	0.0345	mg/kg	99
9) Ethylether	3.65	59	433289	0.0353	mg/kg	97
10) dichlorotfluoroethan	3.67	67	552371	0.0319	mg/kg	94
11) propyleneoxide	3.72	58	732147	0.4188	mg/kg	89
12) Acrolein	3.81	56	475204	0.1863	mg/kg	98
13) 11dichlorthe	3.94	96	486068	0.0339	mg/kg#	82
14) Trichlorotfluoroeth	3.97	101	893291	0.0798	mg/kg	95
15) Acetone	4.03	43	1243771	0.3198	mg/kg	99
16) Iodomethane	4.12	142	1026412	0.0898	mg/kg	100
17) Carbon Dislf	4.20	76	2708034	0.0685	mg/kg	98
18) allylchloride	4.43	41	1844594	0.0503	mg/kg	96
19) methylacetate	4.50	74	148286	0.0372	mg/kg	89
20) Methylchlorid	4.59	84	526165	0.0288	mg/kg#	88
21) Acrylonitrile	4.92	53	769343	0.2002	mg/kg	97
22) t12dichlorte	4.96	96	521326	0.0347	mg/kg#	84
23) tbutylalcohol	4.80	59	2766499	1.7213	mg/kg	96
24) MtBE	4.98	73	1258269	0.0364	mg/kg	95
25) Hexane	5.32	57	1478422	0.0541	mg/kg	97
26) 11dichlorota	5.49	63	936689	0.0293	mg/kg	98
27) Vinylacetate	5.58	43	8179505	0.3494	mg/kg	94
28) chloroprene	5.61	53	1578759	0.0569	mg/kg	91
29) Diisopether	5.61	45	1774049	0.0310	mg/kg	97
30) ETBE	6.07	59	1548159	0.0342	mg/kg	94
31) 22dichloropr	6.22	77	699830	0.0276	mg/kg	95
32) c12dichlorte	6.23	96	582128	0.0346	mg/kg	90
33) 2Butanone	6.25	72	474374	0.4426	mg/kg	87
34) propionitrile	6.32	54	602222	0.3877	mg/kg	97
35) Ethylacetate	6.34	88	75367	0.2282	mg/kg#	77
36) methacrylonitrile	6.51	67	353267	0.0736	mg/kg	96
37) Bromochlorma	6.52	128	261829	0.0389	mg/kg#	78
38) Tetrahydofur	6.59	42	1370682	0.3495	mg/kg	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS7.D Vial: 9
Acq On : 12 Nov 2019 14:07 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 0.040/0.400 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 14:28:26 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 09:10:18 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	881700	0.0334 mg/kg	97
40)	111trichlota	6.85	97	812612	0.0345 mg/kg	96
42)	Cyclohexane	6.92	56	889202	0.0316 mg/kg	87
43)	Carbtetraclo	7.06	119	705885	0.0351 mg/kg	98
44)	11dicloprope	7.06	110	258977	0.0361 mg/kg#	82
46)	Benzene	7.31	78	2049795	0.0333 mg/kg	95
47)	12dichlorota	7.33	62	632819	0.0337 mg/kg	100
48)	TAME	7.46	73	1313985	0.0367 mg/kg	97
49)	trichloroete	8.12	95	529145	0.0342 mg/kg	93
50)	methylcyclohexane	8.36	83	965943	0.0353 mg/kg	89
51)	12dicloropra	8.39	63	567451	0.0313 mg/kg	85
52)	23dicl1propene	8.46	75	751011	0.0349 mg/kg	97
53)	Dibromometha	8.54	93	299970	0.0382 mg/kg	90
54)	methylmethacrylate	8.55	69	300064	0.0402 mg/kg	94
55)	14dioxane	8.58	88	259941	2.1175 mg/kg	90
56)	Bromodiclrma	8.74	83	684159	0.0344 mg/kg	96
57)	2Nitropropane	9.02	43	1333292	0.3193 mg/kg	98
58)	c13dicloproe	9.31	75	822244	0.0337 mg/kg	95
59)	4Meth2Pentan	9.51	43	4567364	0.3518 mg/kg	95
61)	Toluene	9.75	92	1367136	0.0338 mg/kg	97
62)	t13Dicloprop	10.03	75	689197	0.0351 mg/kg	97
63)	ethylmethacrylate	10.16	69	1234147	0.0757 mg/kg	91
64)	112Triclotha	10.27	83	372398	0.0367 mg/kg	97
65)	Tetrachlorte	10.48	166	623685	0.0384 mg/kg	97
66)	13Diclorpropa	10.49	76	720802	0.0354 mg/kg	99
68)	2Hexanone	10.60	43	3399181	0.3982 mg/kg	96
69)	Clorodibrmta	10.79	129	545505	0.0414 mg/kg	96
70)	12Dibrometha	10.94	107	469251	0.0405 mg/kg	97
71)	Chlorobenzen	11.63	112	1443292	0.0366 mg/kg	93
72)	1Clhexane	11.60	91	691527	0.0358 mg/kg	85
73)	1112Tetclota	11.73	131	568765	0.0402 mg/kg	95
74)	Ethylbenzene	11.78	91	2429073	0.0344 mg/kg	94
75)	m p-Xylene	11.94	106	1925991	0.0719 mg/kg	94
76)	o-Xylene	12.49	106	987403	0.0367 mg/kg	92
77)	Styrene	12.51	104	1563564	0.0360 mg/kg	97
78)	Bromoform	12.76	173	370637	0.0421 mg/kg	99
79)	Isopropylben	13.01	105	2519579	0.0362 mg/kg	99
81)	cyclohexanone	13.13	55	369806	0.6214 mg/kg	87
83)	Bromobenzene	13.43	156	689167	0.0392 mg/kg#	84
84)	1122Tetrclta	13.42	83	600429	0.0361 mg/kg	98
85)	123Triclproa	13.48	75	740407	0.0381 mg/kg	93
86)	14dichloro2butene	13.51	53	192056	0.0418 mg/kg	92
87)	n-Propylbenz	13.60	91	2748858	0.0329 mg/kg	97
88)	2chlorotolue	13.72	91	1622750	0.0328 mg/kg	92
89)	4chlorotolue	13.87	91	1829111	0.0323 mg/kg	92
90)	135Trimebenz	13.85	105	2088044	0.0341 mg/kg	98
91)	tbutylbenzen	14.32	119	1874099	0.0352 mg/kg	97
92)	124Trimetben	14.39	105	2078186	0.0336 mg/kg	98
93)	sbutylbenzen	14.64	105	2722645	0.0347 mg/kg	97
94)	13Diclorbenz	14.79	146	1246814	0.0364 mg/kg	97
95)	pIsopropylto	14.86	119	2257457	0.0343 mg/kg	99
96)	14dichlorobe	14.92	146	1240299	0.0363 mg/kg	96
97)	12dichlorobe	15.46	146	1213719	0.0384 mg/kg	96
98)	nButylbenzen	15.46	91	1941181	0.0315 mg/kg	97
99)	12dibromo3cl	16.58	157	139365	0.0400 mg/kg	98
100)	135Trichlorobenzene	16.88	180	905762	0.0378 mg/kg	99
101)	124Trichlobe	17.70	180	825875	0.0375 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS7.D Vial: 9
Acq On : 12 Nov 2019 14:07 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 0.040/0.400 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 14:28:26 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 09:10:18 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	526689	0.0387	mg/kg	99
103)	Naphthalene	18.01	128	1946553	0.0425	mg/kg	97
104)	123Trichlben	18.32	180	804720	0.0393	mg/kg	97

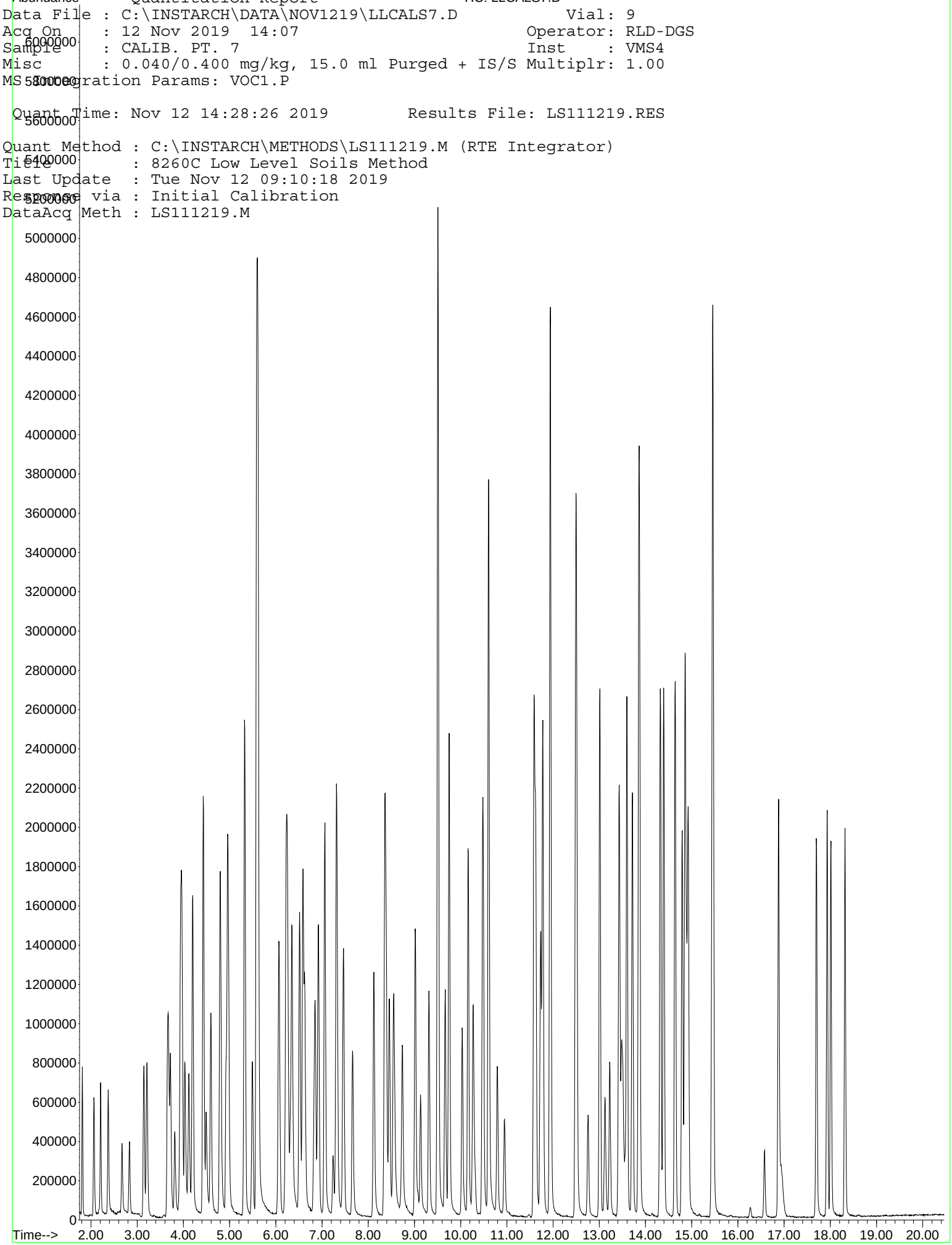
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALS7.D

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS7.D Vial: 9
Acq On : 12 Nov 2019 14:07 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 0.040/0.400 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 14:28:26 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 09:10:18 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS8.D Vial: 10
Acq On : 12 Nov 2019 14:36 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 0.080/0.800 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:44:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:28 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1060546	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.58	117	833468	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	466902	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	260253	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	53782	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.67	98	1056126	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	381456	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	1056411	0.0741	mg/kg	98
3) Chloromethan	2.06	50	1305430	0.0706	mg/kg	98
4) VinylChlorid	2.21	62	1211234	0.0756	mg/kg	98
5) Bromomethane	2.67	94	516154	0.0541	mg/kg	99
6) Chloroethane	2.83	64	673024	0.0717	mg/kg	98
7) dichloroflmethane	3.14	67	1712762	0.0732	mg/kg	98
8) Trichlorofma	3.21	101	1555545	0.0772	mg/kg	99
9) Ethylether	3.65	59	893070	0.0806	mg/kg	99
10) dichlorotfluoroethan	3.67	67	1069377	0.0751	mg/kg	96
11) propyleneoxide	3.72	58	1572827	0.8497	mg/kg	99
12) Acrolein	3.81	56	1006785	0.4083	mg/kg	92
13) 11dichlorthe	3.94	96	949412	0.0770	mg/kg	98
14) Trichlorotfluoroeth	3.96	101	1729897	0.1519	mg/kg	98
15) Acetone	4.03	43	2590808	0.7241	mg/kg	97
16) Iodomethane	4.12	142	2289685	0.2554	mg/kg	97
17) Carbon Dislf	4.20	76	5202322	0.1416	mg/kg	98
18) allylchloride	4.43	41	3625339	0.1448	mg/kg	99
19) methylacetate	4.49	74	335651	0.0925	mg/kg	92
20) Methylchlorid	4.59	84	1056538	0.0587	mg/kg	94
21) Acrylonitrile	4.92	53	1641575	0.4478	mg/kg	99
22) t12dichlorte	4.96	96	1047764	0.0741	mg/kg	96
23) tbutylalcohol	4.80	59	5656210	3.7704	mg/kg	98
24) MtBE	4.98	73	2562468	0.0756	mg/kg	99
25) Hexane	5.32	57	2903754	0.1394	mg/kg	99
26) 11dichlorota	5.49	63	1883880	0.0734	mg/kg	99
27) Vinylacetate	5.58	43	13714145	0.6382	mg/kg	92
28) chloroprene	5.61	53	3058976	0.1506	mg/kg	98
29) Diisopether	5.61	45	3532595	0.0741	mg/kg#	60
30) ETBE	6.06	59	3162310	0.0774	mg/kg	99
31) 22dichloropr	6.22	77	1435954	0.0753	mg/kg	99
32) c12dichlorte	6.23	96	1188154	0.0761	mg/kg	96
33) 2Butanone	6.25	72	1003517	0.9632	mg/kg	94
34) propionitrile	6.31	54	1285291	0.9133	mg/kg	97
35) Ethylacetate	6.34	88	159460	0.4505	mg/kg#	93
36) methacrylonitrile	6.51	67	754175	0.1734	mg/kg	97
37) Bromochlorma	6.52	128	516472	0.0741	mg/kg	98
38) Tetrahydofur	6.58	42	2843450	0.7711	mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS8.D Vial: 10
Acq On : 12 Nov 2019 14:36 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 0.080/0.800 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:44:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:28 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	1767152	0.0741 mg/kg	97
40)	111trichlota	6.85	97	1618220	0.0771 mg/kg	98
42)	Cyclohexane	6.92	56	1763288	0.0799 mg/kg	99
43)	Carbtetraclo	7.06	119	1394395	0.0804 mg/kg	99
44)	11dicloprope	7.06	110	519707	0.0781 mg/kg	97
46)	Benzene	7.31	78	4037903	0.0727 mg/kg	97
47)	12dichlorota	7.33	62	1290152	0.0750 mg/kg	100
48)	TAME	7.46	73	2721676	0.0806 mg/kg	97
49)	trichloroete	8.12	95	1075861	0.0757 mg/kg	97
50)	methylcyclohexane	8.36	83	1932469	0.0827 mg/kg	100
51)	12dicloropra	8.39	63	1181910	0.0775 mg/kg	94
52)	23dicl1propene	8.46	75	1572617	0.0814 mg/kg	97
53)	Dibromometha	8.54	93	628280	0.0826 mg/kg	95
54)	methylmethacrylate	8.55	69	670359	0.1041 mg/kg	97
55)	14dioxane	8.57	88	538159	4.1646 mg/kg	98
56)	Bromodiclrma	8.74	83	1401953	0.0791 mg/kg	99
57)	2Nitropropane	9.02	43	2830903	0.8994 mg/kg	97
58)	c13dicloproe	9.31	75	1703176	0.0819 mg/kg	96
59)	4Meth2Pentan	9.51	43	8559232	0.6818 mg/kg	92
61)	Toluene	9.75	92	2729313	0.0739 mg/kg	96
62)	t13Dicloprop	10.03	75	1478634	0.0869 mg/kg	98
63)	ethylmethacrylate	10.16	69	2571058	0.1727 mg/kg	99
64)	112Triclotha	10.27	83	784389	0.0780 mg/kg	98
65)	Tetrachlorte	10.48	166	1240886	0.0743 mg/kg	99
66)	13Diclorpropa	10.49	76	1479847	0.0779 mg/kg	99
68)	2Hexanone	10.60	43	6712966	0.7913 mg/kg	94
69)	Clorodibrmta	10.79	129	1182223	0.0840 mg/kg	98
70)	12Dibrometha	10.94	107	1001993	0.0826 mg/kg	96
71)	Chlorobenzen	11.63	112	2919833	0.0722 mg/kg	99
72)	1Clhexane	11.59	91	1386064	0.0794 mg/kg	97
73)	1112Tetclota	11.73	131	1155803	0.0778 mg/kg	99
74)	Ethylbenzene	11.78	91	4773559	0.0728 mg/kg	97
75)	m p-Xylene	11.94	106	3805431	0.1467 mg/kg	90
76)	o-Xylene	12.49	106	1970251	0.0751 mg/kg	95
77)	Styrene	12.51	104	3155585	0.0781 mg/kg	99
78)	Bromoform	12.76	173	793941	0.0902 mg/kg	99
79)	Isopropylben	13.01	105	4896946	0.0735 mg/kg	97
81)	cyclohexanone	13.12	55	797175	1.5906 mg/kg	98
83)	Bromobenzene	13.44	156	1409034	0.0743 mg/kg	97
84)	1122Tetrclta	13.42	83	1261241	0.0763 mg/kg	98
85)	123Triclproa	13.48	75	1546439	0.0805 mg/kg	95
86)	14dichloro2butene	13.51	53	378316	0.0793 mg/kg	80
87)	n-Propylbenz	13.60	91	5311567	0.0712 mg/kg	96
88)	2chlorotolue	13.72	91	3246624	0.0721 mg/kg	97
89)	4chlorotolue	13.87	91	3675026	0.0729 mg/kg	96
90)	135Trimebenz	13.86	105	4093570	0.0727 mg/kg	99
91)	tbutylbenzen	14.32	119	3672677	0.0741 mg/kg	99
92)	124Trimetben	14.39	105	4109608	0.0713 mg/kg	97
93)	sbutylbenzen	14.64	105	5218386	0.0722 mg/kg	97
94)	13Diclorbenz	14.79	146	2529554	0.0712 mg/kg	98
95)	pIsopropylto	14.86	119	4386343	0.0727 mg/kg	96
96)	14dichlorobe	14.92	146	2496191	0.0709 mg/kg	98
97)	12dichlorobe	15.46	146	2442937	0.0713 mg/kg	98
98)	nButylbenzen	15.46	91	3829951	0.0730 mg/kg	97
99)	12dibromo3cl	16.58	157	300423	0.0860 mg/kg	97
100)	135Trichlorobenzene	16.88	180	1841196	0.0704 mg/kg	99
101)	124Trichlobe	17.70	180	1687067	0.0725 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS8.D Vial: 10
Acq On : 12 Nov 2019 14:36 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 0.080/0.800 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:44:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:28 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

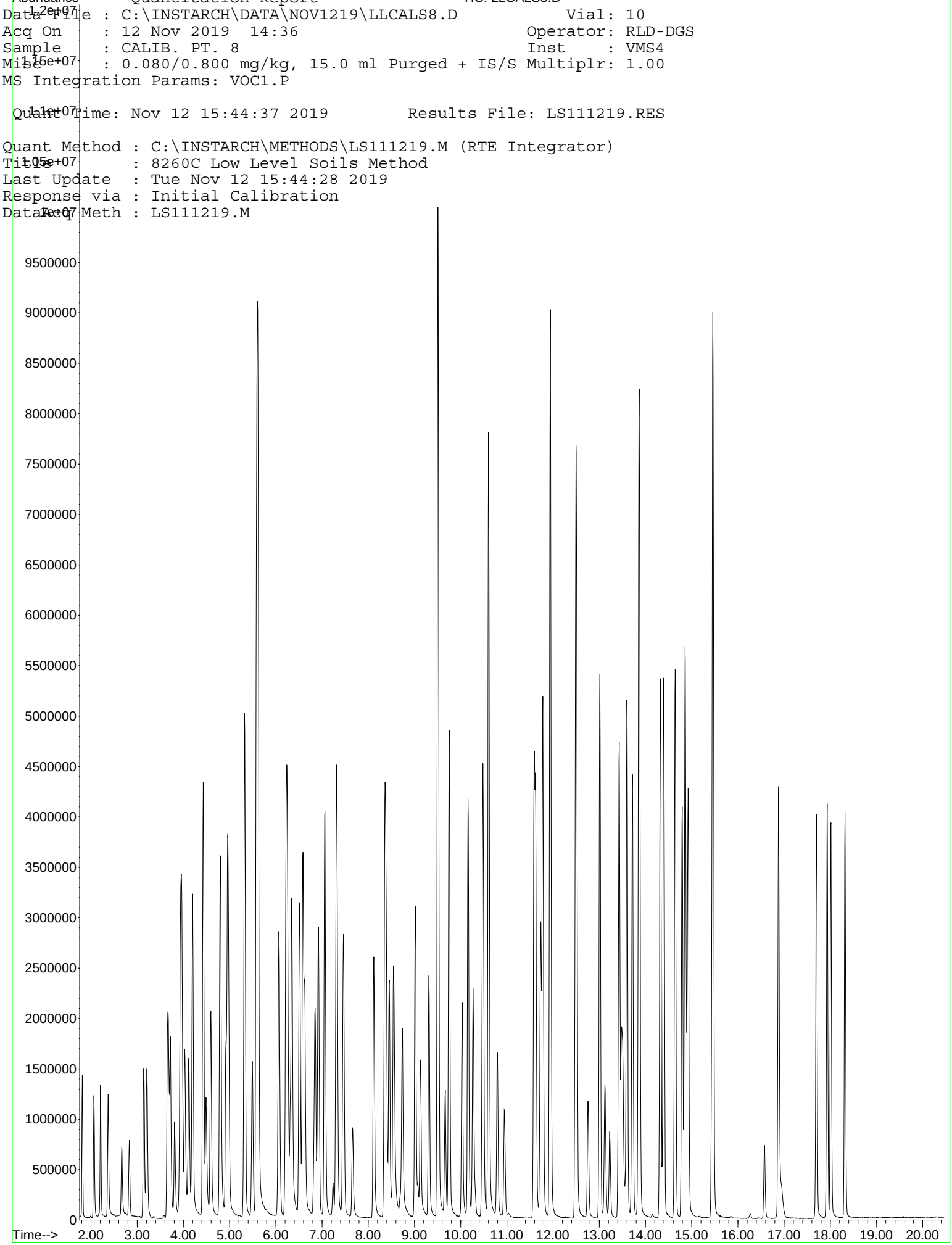
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	1061253	0.0756	mg/kg	99
103)	Naphthalene	18.01	128	3917377	0.0751	mg/kg	97
104)	123Trichlben	18.32	180	1639138	0.0719	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219\LLCALS8.D Vial: 10
Acq On : 12 Nov 2019 14:36 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 0.080/0.800 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:44:37 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:44:28 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 12
Acq On : 12 Nov 2019 15:34 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 12 15:57:49 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	114	0.00
2	T	Dichlorodi	0.2663	0.2756	-3.49	120	0.00
3	PT	Chloromethan	0.3437	0.3400	1.08	122	0.00
4	CT	VinylChlorid	0.3001	0.2987	0.47	119	0.00
5	T	Bromomethane	0.1613	0.1795	-11.28	107	0.00
6	T	Chloroethane	0.1746	0.1598	8.48	113	0.00
7	T	dichloroflmethane	0.4366	0.4218	3.39	114	0.00
8	T	Trichlorofma	0.3783	0.3728	1.45	109	0.00
9	T	Ethylether	0.2091	0.2167	-3.63	121	0.00
10	T	dichlorotfluoroethan	0.2664	0.2690	-0.98	115	0.00
11	T	propyleneoxide	0.0352	0.0350	0.57	103	0.00
12	T	Acrolein	0.0466	0.0429	7.94	102	-0.01
13	CT	11dichlorthe	0.2315	0.2310	0.22	115	0.00
14	T	Trichlorotfluoroeth	0.2134	0.2159	-1.17	114	0.00
15	T	Acetone	0.0667	0.0578	13.34	101	0.00
16	T	Iodomethane	0.1640	0.1070	34.76#	117	0.00
17	T	Carbon Dislf	0.6828	0.6680	2.17	116	0.00
18	T	allylchloride	0.4665	0.4523	3.04	115	0.00
19	T	methylacetate	0.0737	0.0638	13.43	100	0.00
20	T	Methylchlorid	0.3214	0.2660	17.24	111	0.00
21	T	Acrylonitrile	0.0723	0.0668	7.61	100	0.00
22	T	t12dichlorte	0.2642	0.2457	7.00	112	0.00
23	T	tbutylalcohol	0.0281	0.0249	11.39	99	0.00
24	T	MtBE	0.6350	0.6066	4.47	111	0.00
25	T	Hexane	0.3865	0.3741	3.21	116	0.00
26	PT	11dichlorota	0.4792	0.4345	9.33	108	0.00
27	T	Vinylacetate	0.3950	0.4165	-5.44	110	0.00
28	T	chloroprene	0.3802	0.3812	-0.26	115	0.00
29	T	Diisopether	0.8907	0.8642	2.98	114	0.00
30	T	ETBE	0.7673	0.7561	1.46	118	0.00
31	T	22dichloropr	0.3568	0.3333	6.59	109	0.00
32	T	c12dichlorte	0.2926	0.2828	3.35	117	0.00
33	T	2Butanone	0.0220	0.0212	3.64	107	0.00
34	T	propionitrile	0.0288	0.0253	12.15	102	0.00
35	T	Ethylacetate	0.0069	0.0073#	-5.80	115	0.00
36	T	methacrylonitrile	0.0829	0.0803	3.14	107	0.00
37	T	Bromochlorma	0.1302	0.1297	0.38	112	0.00
38	T	Tetrahydofur	0.0692	0.0645	6.79	103	0.00
39	CT	Chloroform	0.4454	0.4174	6.29	110	0.00
40	T	111trichlota	0.3939	0.3804	3.43	114	0.00
41	S	SURRDibrflma	0.2461	0.2443	0.73	115	0.00
42	T	Cyclohexane	0.4160	0.4375	-5.17	120	0.00
43	T	Carbtetraclo	0.3272	0.3178	2.87	112	0.00
44	T	11dicloprope	0.1251	0.1218	2.64	115	0.00
45	S	SURR12DCAd4	0.0520	0.0540	-3.85	112	0.00
46	T	Benzene	1.0359	0.9587	7.45	108	0.00
47	T	12dichlorota	0.3217	0.2938	8.67	106	0.00
48	T	TAME	0.6374	0.6012	5.68	114	0.00

49	T	trichloroete	0.2661	0.2391	10.15	112	0.00
50	T	methylcyclohexane	0.4426	0.4477	-1.15	112	0.00
51	CT	12dicloropra	0.2866	0.2612	8.86	105	0.00
52	T	23dicl1propene	0.3651	0.3654	-0.08	121	0.00
53	T	Dibromometha	0.1441	0.1391	3.47	111	0.00
54	T	methylmethacrylate	0.1352	0.1277	5.55	112	0.00
55	T	14dioxane	0.0024	0.0024#	0.00	109	0.00
56	T	Bromodiclrma	0.3337	0.3059	8.33	109	0.00
57	T	2Nitropropane	0.0603	0.0570	5.47	107	0.00
58	T	c13dicloproe	0.3935	0.3606	8.36	108	0.00
59	T	4Meth2Pentan	0.2324	0.2232	3.96	105	0.00
60	S	SURRd8Tolule	0.9998	0.9946	0.52	113	0.00
61	CT	Toluene	0.6895	0.6383	7.43	111	0.00
62	T	t13Dicloprop	0.3245	0.2990	7.86	107	0.00
63	T	ethylmethacrylate	0.2835	0.2600	8.29	107	0.00
64	T	112Triclotha	0.1890	0.1740	7.94	109	0.00
65	T	Tetrachlorte	0.3120	0.2760	11.54	108	0.00
66	T	13Diclorpropa	0.3569	0.3323	6.89	107	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	112	0.00
68	T	2Hexanone	0.2033	0.2034	-0.05	106	0.00
69	T	Clorodibrmta	0.3400	0.3254	4.29	113	0.00
70	T	12Dibrometha	0.2922	0.2840	2.81	105	0.00
71	PT	Chlorobenzen	0.9583	0.9014	5.94	111	0.00
72	T	1Clhexane	0.4187	0.4141	1.10	111	-0.01
73	T	1112Tetclota	0.3552	0.3283	7.57	110	0.00
74	CT	Ethylbenzene	1.5565	1.4848	4.61	112	0.00
75	T	m p-Xylene	0.6162	0.5783	6.15	109	0.00
76	T	o-Xylene	0.6249	0.5949	4.80	112	0.00
77	T	Styrene	0.9663	0.9162	5.18	110	0.00
78	PT	Bromoform	0.2145	0.1974	7.97	108	0.00
79	T	Isopropylben	1.5830	1.5395	2.75	112	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	119	0.00
81	T	cyclohexanone	0.0215	0.0197	8.37	105	0.00
82	S	SURR4BrFBenz	0.8202	0.8213	-0.13	119	0.00
83	T	Bromobenzene	0.8046	0.7064	12.20	105	0.00
84	PT	1122Tetrclta	0.7038	0.6149	12.63	102	0.00
85	T	123Triclproa	0.8231	0.7219	12.29	103	0.00
86	T	14dichloro2butene	0.2042	0.1803	11.70	100	0.00
87	T	n-Propylbenz	3.1519	2.8718	8.89	107	0.00
88	T	2chlorotolue	1.9045	1.7089	10.27	110	0.00
89	T	4chlorotolue	2.1355	1.9142	10.36	106	0.00
90	T	135Trimebenz	2.3831	2.1617	9.29	109	0.00
91	T	tbutylbenzen	2.1028	1.9495	7.29	110	0.00
92	T	124Trimetben	2.4360	2.1689	10.96	108	0.00
93	T	sbutylbenzen	3.0572	2.8513	6.73	109	0.00
94	T	13Diclorbenz	1.5018	1.2940	13.84	107	0.00
95	T	pIsopropylto	2.5538	2.3114	9.49	105	0.00
96	T	14dichlorobe	1.4865	1.3238	10.95	110	0.00
97	T	12dichlorobe	1.4468	1.2866	11.07	109	0.00
98	T	nButylbenzen	2.2235	2.0165	9.31	109	0.00
99	T	12dibromo3cl	0.1511	0.1321	12.57	103	0.00
100	T	135Trichlorobenzene	1.1030	0.9764	11.48	108	0.00
101	T	124Trichlobe	0.9853	0.8379	14.96	105	0.00
102	T	Hexachlorobu	0.5975	0.5633	5.72	109	0.00
103	T	Naphthalene	2.2171	1.9885	10.31	107	0.00
104	T	123Trichlben	0.9639	0.8506	11.75	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Tue Nov 19 08:12:25 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 12
Acq On : 12 Nov 2019 15:34 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 12 15:57:49 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	0.0200	0.0200	0.00	114	0.00
2	T	Dichlorodi	0.0100	0.0103	-3.00	120	0.00
3	PT	Chloromethan	0.0100	0.0099	1.00	122	0.00
4	CT	VinylChlorid	0.0100	0.0100	0.00	119	0.00
5	T	Bromomethane	0.0100	0.0115	-15.00	107	0.00
6	T	Chloroethane	0.0100	0.0092	8.00	113	0.00
7	T	dichloroflmethane	0.0100	0.0097	3.00	114	0.00
8	T	Trichlorofma	0.0100	0.0099	1.00	109	0.00
9	T	Ethylether	0.0100	0.0104	-4.00	121	0.00
10	T	dichlorotfluoroethan	0.0100	0.0101	-1.00	115	0.00
11	T	propyleneoxide	0.1000	0.0996	0.40	103	0.00
12	T	Acrolein	0.0500	0.0460	8.00	102	-0.01
13	CT	11dichlorthe	0.0100	0.0100	0.00	115	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0202	-1.00	114	0.00
15	T	Acetone	0.1000	0.0867	13.30	101	0.00
16	T	Iodomethane	0.0200	0.0170	15.00	117	0.00
17	T	Carbon Dislf	0.0200	0.0196	2.00	116	0.00
18	T	allylchloride	0.0200	0.0194	3.00	115	0.00
19	T	methylacetate	0.0100	0.0086	14.00	100	0.00
20	T	Methylchlorid	0.0100	0.0090	10.00	111	0.00
21	T	Acrylonitrile	0.0500	0.0462	7.60	100	0.00
22	T	t12dichlorte	0.0100	0.0093	7.00	112	0.00
23	T	tbutylalcohol	0.5000	0.4437	11.26	99	0.00
24	T	MtBE	0.0100	0.0096	4.00	111	0.00
25	T	Hexane	0.0200	0.0194	3.00	116	0.00
26	PT	11dichlorota	0.0100	0.0091	9.00	108	0.00
27	T	Vinylacetate	0.1000	0.1054	-5.40	110	0.00
28	T	chloroprene	0.0200	0.0201	-0.50	115	0.00
29	T	Diisopether	0.0100	0.0097	3.00	114	0.00
30	T	ETBE	0.0100	0.0099	1.00	118	0.00
31	T	22dichloropr	0.0100	0.0093	7.00	109	0.00
32	T	c12dichlorte	0.0100	0.0097	3.00	117	0.00
33	T	2Butanone	0.1000	0.0962	3.80	107	0.00
34	T	propionitrile	0.1000	0.0881	11.90	102	0.00
35	T	Ethylacetate	0.0500	0.0535	-7.00	115	0.00
36	T	methacrylonitrile	0.0200	0.0194	3.00	107	0.00
37	T	Bromochlorma	0.0100	0.0100	0.00	112	0.00
38	T	Tetrahydofur	0.1000	0.0932	6.80	103	0.00
39	CT	Chloroform	0.0100	0.0094	6.00	110	0.00
40	T	111trichlota	0.0100	0.0097	3.00	114	0.00
41	S	SURRDibrflma	0.0200	0.0199	0.50	115	0.00
42	T	Cyclohexane	0.0100	0.0105	-5.00	120	0.00
43	T	Carbtetraclo	0.0100	0.0097	3.00	112	0.00
44	T	11dicloprope	0.0100	0.0097	3.00	115	0.00
45	S	SURR12DCAd4	0.0200	0.0208	-4.00	112	0.00
46	T	Benzene	0.0100	0.0093	7.00	108	0.00
47	T	12dichlorota	0.0100	0.0091	9.00	106	0.00
48	T	TAME	0.0100	0.0094	6.00	114	0.00

49	T	trichloroete	0.0100	0.0090	10.00	112	0.00
50	T	methylcyclohexane	0.0100	0.0101	-1.00	112	0.00
51	CT	12dicloropra	0.0100	0.0091	9.00	105	0.00
52	T	23dicl1propene	0.0100	0.0100	0.00	121	0.00
53	T	Dibromometha	0.0100	0.0097	3.00	111	0.00
54	T	methylmethacrylate	0.0100	0.0094	6.00	112	0.00
55	T	14dioxane	0.5000	0.4848	3.04	109	0.00
56	T	Bromodiclrma	0.0100	0.0092	8.00	109	0.00
57	T	2Nitropropane	0.1000	0.0945	5.50	107	0.00
58	T	c13dicloproe	0.0100	0.0092	8.00	108	0.00
59	T	4Meth2Pentan	0.1000	0.0960	4.00	105	0.00
60	S	SURRd8Tolule	0.0200	0.0199	0.50	113	0.00
61	CT	Toluene	0.0100	0.0093	7.00	111	0.00
62	T	t13Dicloprop	0.0100	0.0092	8.00	107	0.00
63	T	ethylmethacrylate	0.0200	0.0183	8.50	107	0.00
64	T	112Triclotha	0.0100	0.0092	8.00	109	0.00
65	T	Tetrachlorte	0.0100	0.0088	12.00	108	0.00
66	T	13Diclorpropa	0.0100	0.0093	7.00	107	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	112	0.00
68	T	2Hexanone	0.1000	0.1000	0.00	106	0.00
69	T	Clorodibrmta	0.0100	0.0096	4.00	113	0.00
70	T	12Dibrometha	0.0100	0.0097	3.00	105	0.00
71	PT	Chlorobenzen	0.0100	0.0094	6.00	111	0.00
72	T	1Clhexane	0.0100	0.0099	1.00	111	-0.01
73	T	1112Tetclota	0.0100	0.0092	8.00	110	0.00
74	CT	Ethylbenzene	0.0100	0.0095	5.00	112	0.00
75	T	m p-Xylene	0.0200	0.0188	6.00	109	0.00
76	T	o-Xylene	0.0100	0.0095	5.00	112	0.00
77	T	Styrene	0.0100	0.0095	5.00	110	0.00
78	PT	Bromoform	0.0100	0.0092	8.00	108	0.00
79	T	Isopropylben	0.0100	0.0097	3.00	112	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	119	0.00
81	T	cyclohexanone	0.2000	0.1833	8.35	105	0.00
82	S	SURR4BrFBenz	0.0200	0.0200	0.00	119	0.00
83	T	Bromobenzene	0.0100	0.0088	12.00	105	0.00
84	PT	1122Tetrclta	0.0100	0.0087	13.00	102	0.00
85	T	123Triclproa	0.0100	0.0088	12.00	103	0.00
86	T	14dichloro2butene	0.0100	0.0088	12.00	100	0.00
87	T	n-Propylbenz	0.0100	0.0091	9.00	107	0.00
88	T	2chlorotolue	0.0100	0.0090	10.00	110	0.00
89	T	4chlorotolue	0.0100	0.0090	10.00	106	0.00
90	T	135Trimebenz	0.0100	0.0091	9.00	109	0.00
91	T	tbutylbenzen	0.0100	0.0093	7.00	110	0.00
92	T	124Trimetben	0.0100	0.0089	11.00	108	0.00
93	T	sbutylbenzen	0.0100	0.0093	7.00	109	0.00
94	T	13Diclorbenz	0.0100	0.0086	14.00	107	0.00
95	T	pIsopropylto	0.0100	0.0091	9.00	105	0.00
96	T	14dichlorobe	0.0100	0.0089	11.00	110	0.00
97	T	12dichlorobe	0.0100	0.0089	11.00	109	0.00
98	T	nButylbenzen	0.0100	0.0091	9.00	109	0.00
99	T	12dibromo3cl	0.0100	0.0087	13.00	103	0.00
100	T	135Trichlorobenzene	0.0100	0.0089	11.00	108	0.00
101	T	124Trichlobe	0.0100	0.0085	15.00	105	0.00
102	T	Hexachlorobu	0.0100	0.0094	6.00	109	0.00
103	T	Naphthalene	0.0100	0.0090	10.00	107	0.00
104	T	123Trichlben	0.0100	0.0088	12.00	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Tue Nov 19 08:12:43 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 12
Acq On : 12 Nov 2019 15:34 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:57:49 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:57:42 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1016174	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	769197	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	443226	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.82	113	248227	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	54899	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.67	98	1010655	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	364042	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	140035	0.0103	mg/kg	99
3) Chloromethan	2.07	50	172772	0.0099	mg/kg	98
4) VinylChlorid	2.21	62	151771	0.0100	mg/kg	95
5) Bromomethane	2.68	94	91205	0.0115	mg/kg	95
6) Chloroethane	2.83	64	81215	0.0092	mg/kg	98
7) dichloroflmethane	3.14	67	214314	0.0097	mg/kg	98
8) Trichlorofma	3.21	101	189434	0.0099	mg/kg	99
9) Ethylether	3.66	59	110121	0.0104	mg/kg	97
10) dichlorotfluoroethan	3.67	67	136682	0.0101	mg/kg	98
11) propyleneoxide	3.72	58	178017	0.0996	mg/kg	97
12) Acrolein	3.81	56	108996	0.0460	mg/kg	97
13) 11dichlorthe	3.93	96	117387	0.0100	mg/kg	96
14) Trichlorotfluoroeth	3.96	101	219368	0.0202	mg/kg	97
15) Acetone	4.04	43	293568	0.0867	mg/kg	99
16) Iodomethane	4.12	142	108692	0.0170	mg/kg	98
17) Carbon Dislf	4.20	76	678788	0.0196	mg/kg	100
18) allylchloride	4.43	41	459585	0.0194	mg/kg	99
19) methylacetate	4.50	74	32406	0.0086	mg/kg	89
20) Methylchlorid	4.60	84	135134	0.0090	mg/kg	96
21) Acrylonitrile	4.93	53	169740	0.0462	mg/kg	95
22) t12dichlorte	4.96	96	124855	0.0093	mg/kg	99
23) tbutylalcohol	4.80	59	633157	0.4437	mg/kg	100
24) MtBE	4.98	73	308218	0.0096	mg/kg	99
25) Hexane	5.33	57	380113	0.0194	mg/kg	98
26) 11dichlorota	5.49	63	220776	0.0091	mg/kg	97
27) Vinylacetate	5.59	43	2116350	0.1054	mg/kg	99
28) chloroprene	5.61	53	387394	0.0201	mg/kg	100
29) Diisopether	5.61	45	439070	0.0097	mg/kg	93
30) ETBE	6.07	59	384164	0.0099	mg/kg	98
31) 22dichloropr	6.22	77	169350	0.0093	mg/kg	99
32) c12dichlorte	6.24	96	143675	0.0097	mg/kg	93
33) 2Butanone	6.27	72	107648	0.0962	mg/kg	90
34) propionitrile	6.34	54	128722	0.0881	mg/kg	96
35) Ethylacetate	6.36	88	18667	0.0535	mg/kg#	85
36) methacrylonitrile	6.52	67	81603	0.0194	mg/kg	95
37) Bromochlorma	6.53	128	65907	0.0100	mg/kg	94
38) Tetrahydofur	6.59	42	327720	0.0932	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 12
Acq On : 12 Nov 2019 15:34 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:57:49 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:57:42 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	212060	0.0094 mg/kg	95
40)	111trichlota	6.85	97	193284	0.0097 mg/kg	94
42)	Cyclohexane	6.92	56	222309	0.0105 mg/kg	95
43)	Carbtetraclo	7.06	119	161471	0.0097 mg/kg	97
44)	11dicloprope	7.06	110	61883	0.0097 mg/kg	95
46)	Benzene	7.31	78	487086	0.0093 mg/kg	97
47)	12dichlorota	7.34	62	149276	0.0091 mg/kg	99
48)	TAME	7.46	73	305461	0.0094 mg/kg	97
49)	trichloroete	8.12	95	121500	0.0090 mg/kg	99
50)	methylcyclohexane	8.36	83	227478	0.0101 mg/kg	98
51)	12dicloropra	8.39	63	132700	0.0091 mg/kg	94
52)	23dicl1propene	8.46	75	185658	0.0100 mg/kg	97
53)	Dibromometha	8.55	93	70652	0.0097 mg/kg	94
54)	methylmethacrylate	8.57	69	64866	0.0094 mg/kg	93
55)	14dioxane	8.59	88	60334	0.4848 mg/kg	95
56)	Bromodiclrma	8.74	83	155434	0.0092 mg/kg	97
57)	2Nitropropane	9.02	43	289418	0.0945 mg/kg	99
58)	c13dicloproe	9.31	75	183216	0.0092 mg/kg	99
59)	4Meth2Pentan	9.51	43	1133828	0.0960 mg/kg	98
61)	Toluene	9.75	92	324313	0.0093 mg/kg	99
62)	t13Dicloprop	10.04	75	151914	0.0092 mg/kg	99
63)	ethylmethacrylate	10.17	69	264210	0.0183 mg/kg	98
64)	112Triclotha	10.27	83	88390	0.0092 mg/kg	96
65)	Tetrachlorte	10.48	166	140246	0.0088 mg/kg	99
66)	13Diclorpropa	10.49	76	168847	0.0093 mg/kg	99
68)	2Hexanone	10.61	43	782102	0.1000 mg/kg	99
69)	Clorodibrmta	10.80	129	125135	0.0096 mg/kg	98
70)	12Dibrometha	10.95	107	109229	0.0097 mg/kg	99
71)	Chlorobenzen	11.63	112	346659	0.0094 mg/kg	99
72)	1Clhexane	11.59	91	159256	0.0099 mg/kg	98
73)	1112Tetclota	11.73	131	126278	0.0092 mg/kg	99
74)	Ethylbenzene	11.78	91	571044	0.0095 mg/kg	99
75)	m p-Xylene	11.94	106	444838	0.0188 mg/kg	99
76)	o-Xylene	12.49	106	228783	0.0095 mg/kg	98
77)	Styrene	12.51	104	352354	0.0095 mg/kg	98
78)	Bromoform	12.76	173	75908	0.0092 mg/kg	96
79)	Isopropylben	13.01	105	592093	0.0097 mg/kg	99
81)	cyclohexanone	13.13	55	87165	0.1833 mg/kg	97
83)	Bromobenzene	13.44	156	156555	0.0088 mg/kg	97
84)	1122Tetrclta	13.43	83	136279	0.0087 mg/kg	98
85)	123Triclproa	13.48	75	159990	0.0088 mg/kg	99
86)	14dichloro2butene	13.52	53	39949	0.0088 mg/kg	92
87)	n-Propylbenz	13.60	91	636423	0.0091 mg/kg	99
88)	2chlorotolue	13.72	91	378711	0.0090 mg/kg	99
89)	4chlorotolue	13.88	91	424219	0.0090 mg/kg	99
90)	135Trimebenz	13.86	105	479052	0.0091 mg/kg	99
91)	tbutylbenzen	14.32	119	432027	0.0093 mg/kg	99
92)	124Trimetben	14.39	105	480650	0.0089 mg/kg	99
93)	sbutylbenzen	14.64	105	631892	0.0093 mg/kg	99
94)	13Diclorbenz	14.79	146	286761	0.0086 mg/kg	99
95)	pIsopropylto	14.86	119	512233	0.0091 mg/kg	98
96)	14dichlorobe	14.92	146	293366	0.0089 mg/kg	98
97)	12dichlorobe	15.46	146	285131	0.0089 mg/kg	100
98)	nButylbenzen	15.46	91	446888	0.0091 mg/kg	98
99)	12dibromo3cl	16.58	157	29286	0.0087 mg/kg	99
100)	135Trichlorobenzene	16.88	180	216376	0.0089 mg/kg	98
101)	124Trichlobe	17.70	180	185690	0.0085 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 12
Acq On : 12 Nov 2019 15:34 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:57:49 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:57:42 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	124831	0.0094	mg/kg	99
103)	Naphthalene	18.01	128	440685	0.0090	mg/kg	98
104)	123Trichlben	18.32	180	188499	0.0088	mg/kg	98

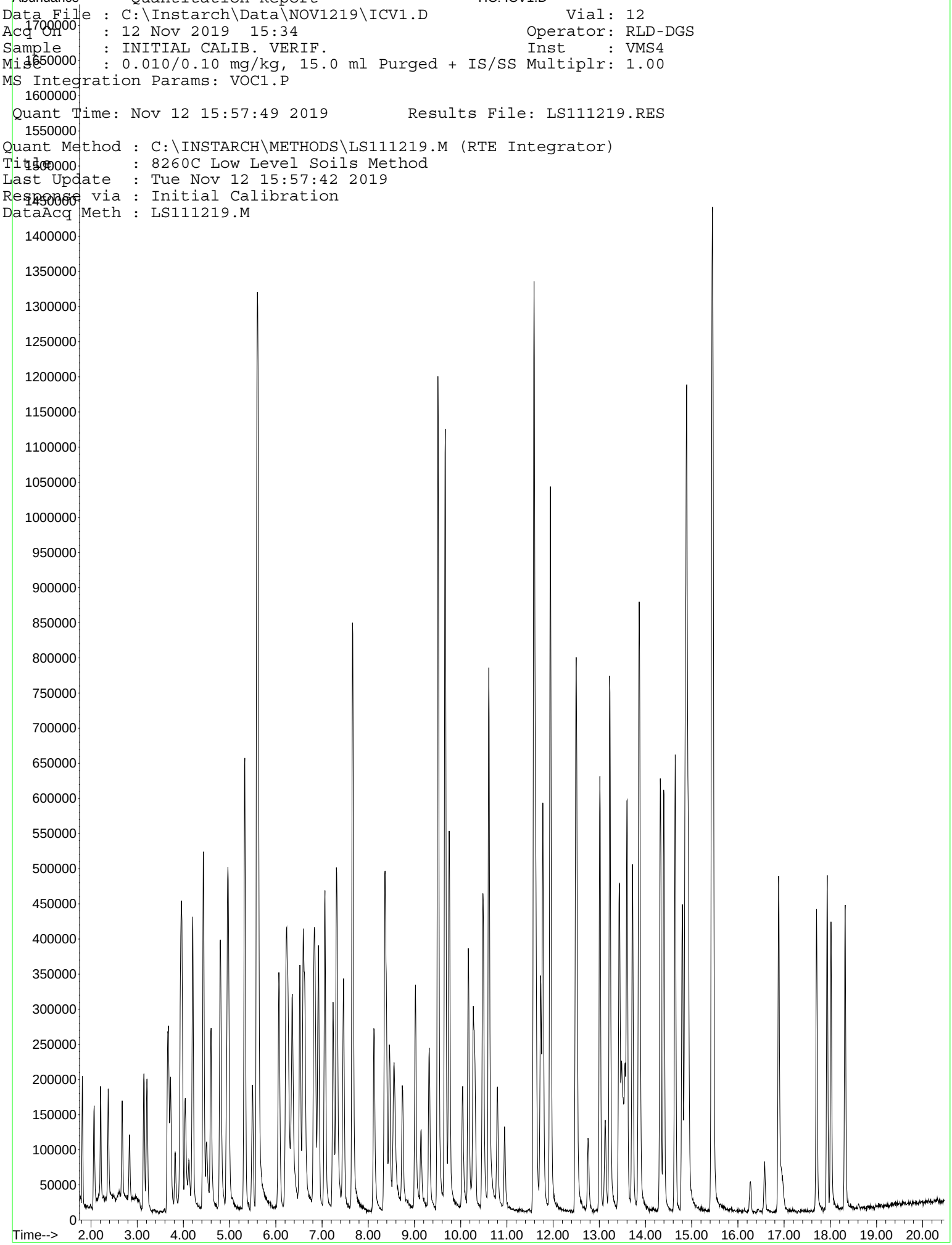
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV1.D

Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 12
Acq On : 12 Nov 2019 15:34 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 15:57:49 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 15:57:42 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1219\ICV2.D Vial: 13
Acq On : 12 Nov 2019 16:03 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.30 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 12 16:24:30 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	0.0200	0.0200	0.00	103	0.00
2	T	Dichlorodi	0.0300	0.0308	-2.67	102	0.00
3	PT	Chloromethan	0.0300	0.0290	3.33	102	0.00
4	CT	VinylChlorid	0.0300	0.0296	1.33	97	0.00
5	T	Bromomethane	0.0300	0.0283	5.67	104	0.00
6	T	Chloroethane	0.0300	0.0285	5.00	99	0.00
7	T	dichloroflmethane	0.0300	0.0302	-0.67	101	0.00
8	T	Trichlorofma	0.0300	0.0302	-0.67	96	0.00
9	T	Ethylether	0.0300	0.0308	-2.67	103	0.00
10	T	dichlorotfluoroethan	0.0300	0.0307	-2.33	100	0.00
11	T	propyleneoxide	0.3000	0.2840	5.33	109	0.00
12	T	Acrolein	0.1500	0.1506	-0.40	102	-0.01
13	CT	11dichlorthe	0.0300	0.0295	1.67	96	0.00
14	T	Trichlorotfluoroeth	0.0600	0.0605	-0.83	97	0.00
15	T	Acetone	0.3000	0.2787	7.10	102	0.00
16	T	Iodomethane	0.0600	0.0584	2.67	98	0.00
17	T	Carbon Dislf	0.0600	0.0586	2.33	97	0.00
18	T	allylchloride	0.0600	0.0596	0.67	102	0.00
19	T	methylacetate	0.0300	0.0298	0.67	101	0.00
20	T	Methylchlorid	0.0300	0.0288	4.00	100	0.00
21	T	Acrylonitrile	0.1500	0.1511	-0.73	100	0.00
22	T	t12dichlorte	0.0300	0.0278	7.33	93	0.00
23	T	tbutylalcohol	1.5000	1.3850	7.67	101	0.00
24	T	MtBE	0.0300	0.0294	2.00	104	0.00
25	T	Hexane	0.0600	0.0584	2.67	102	0.00
26	PT	11dichlorota	0.0300	0.0277	7.67	96	0.00
27	T	Vinylacetate	0.3000	0.3177	-5.90	102	0.00
28	T	chloroprene	0.0600	0.0608	-1.33	99	0.00
29	T	Diisopether	0.0300	0.0299	0.33	103	0.00
30	T	ETBE	0.0300	0.0301	-0.33	102	0.00
31	T	22dichloropr	0.0300	0.0284	5.33	96	0.00
32	T	c12dichlorte	0.0300	0.0286	4.67	97	0.00
33	T	2Butanone	0.3000	0.3080	-2.67	104	-0.01
34	T	propionitrile	0.3000	0.2930	2.33	100	-0.01
35	T	Ethylacetate	0.1500	0.1583	-5.53	107	0.00
36	T	methacrylonitrile	0.0600	0.0634	-5.67	102	0.00
37	T	Bromochlorma	0.0300	0.0295	1.67	97	0.00
38	T	Tetrahydofur	0.3000	0.2881	3.97	103	0.00
39	CT	Chloroform	0.0300	0.0287	4.33	98	0.00
40	T	111trichlota	0.0300	0.0289	3.67	95	0.00
41	S	SURRDibrflma	0.0200	0.0198	1.00	102	0.00
42	T	Cyclohexane	0.0300	0.0313	-4.33	99	0.00
43	T	Carbtetraclo	0.0300	0.0300	0.00	95	0.00
44	T	11dicloprope	0.0300	0.0295	1.67	98	0.00
45	S	SURR12DCAd4	0.0200	0.0208	-4.00	109	0.00
46	T	Benzene	0.0300	0.0284	5.33	97	0.00
47	T	12dichlorota	0.0300	0.0283	5.67	99	0.00
48	T	TAME	0.0300	0.0304	-1.33	104	0.00

49	T	trichloroete	0.0300	0.0282	6.00	96	0.00
50	T	methylcyclohexane	0.0300	0.0322	-7.33	97	0.00
51	CT	12dicloropra	0.0300	0.0289	3.67	98	0.00
52	T	23dicl1propene	0.0300	0.0303	-1.00	102	0.00
53	T	Dibromometha	0.0300	0.0302	-0.67	100	0.00
54	T	methylmethacrylate	0.0300	0.0321	-7.00	101	0.00
55	T	14dioxane	1.5000	1.5608	-4.05	108	0.00
56	T	Bromodiclrma	0.0300	0.0293	2.33	99	0.00
57	T	2Nitropropane	0.3000	0.3081	-2.70	100	0.00
58	T	c13dicloproe	0.0300	0.0298	0.67	98	0.00
59	T	4Meth2Pentan	0.3000	0.2865	4.50	101	0.00
60	S	SURRd8Tolule	0.0200	0.0201	-0.50	103	0.00
61	CT	Toluene	0.0300	0.0284	5.33	98	0.00
62	T	t13Dicloprop	0.0300	0.0304	-1.33	100	0.00
63	T	ethylmethacrylate	0.0600	0.0615	-2.50	101	0.00
64	T	112Triclotha	0.0300	0.0284	5.33	99	0.00
65	T	Tetrachlorte	0.0300	0.0282	6.00	96	0.00
66	T	13Diclorpropa	0.0300	0.0286	4.67	97	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	103	0.00
68	T	2Hexanone	0.3000	0.3102	-3.40	101	0.00
69	T	Clorodibrmta	0.0300	0.0297	1.00	96	0.00
70	T	12Dibrometha	0.0300	0.0301	-0.33	100	0.00
71	PT	Chlorobenzen	0.0300	0.0283	5.67	98	0.00
72	T	1Clhexane	0.0300	0.0314	-4.67	98	0.00
73	T	1112Tetclota	0.0300	0.0286	4.67	98	0.00
74	CT	Ethylbenzene	0.0300	0.0288	4.00	95	0.00
75	T	m p-Xylene	0.0600	0.0577	3.83	96	0.00
76	T	o-Xylene	0.0300	0.0289	3.67	99	0.00
77	T	Styrene	0.0300	0.0297	1.00	97	0.00
78	PT	Bromoform	0.0300	0.0306	-2.00	99	0.00
79	T	Isopropylben	0.0300	0.0291	3.00	95	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	103	0.00
81	T	cyclohexanone	0.6000	0.5858	2.37	104	0.00
82	S	SURR4BrFBenz	0.0200	0.0207	-3.50	105	0.00
83	T	Bromobenzene	0.0300	0.0288	4.00	98	0.00
84	PT	1122Tetrclta	0.0300	0.0286	4.67	99	0.00
85	T	123Triclproa	0.0300	0.0295	1.67	100	0.00
86	T	14dichloro2butene	0.0300	0.0280	6.67	90	0.00
87	T	n-Propylbenz	0.0300	0.0291	3.00	95	0.00
88	T	2chlorotolue	0.0300	0.0291	3.00	96	0.00
89	T	4chlorotolue	0.0300	0.0291	3.00	97	0.00
90	T	135Trimebenz	0.0300	0.0291	3.00	96	0.00
91	T	tbutylbenzen	0.0300	0.0295	1.67	95	0.00
92	T	124Trimetben	0.0300	0.0283	5.67	96	0.00
93	T	sbutylbenzen	0.0300	0.0293	2.33	95	0.00
94	T	13Diclorbenz	0.0300	0.0279	7.00	98	0.00
95	T	pIsopropylto	0.0300	0.0293	2.33	95	0.00
96	T	14dichlorobe	0.0300	0.0278	7.33	97	0.00
97	T	12dichlorobe	0.0300	0.0278	7.33	97	0.00
98	T	nButylbenzen	0.0300	0.0293	2.33	95	0.00
99	T	12dibromo3cl	0.0300	0.0283	5.67	97	0.00
100	T	135Trichlorobenzene	0.0300	0.0285	5.00	99	0.00
101	T	124Trichlobe	0.0300	0.0284	5.33	97	0.00
102	T	Hexachlorobu	0.0300	0.0298	0.67	95	0.00
103	T	Naphthalene	0.0300	0.0284	5.33	96	0.00
104	T	123Trichlben	0.0300	0.0282	6.00	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Tue Nov 19 08:16:44 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV2.D Vial: 13
Acq On : 12 Nov 2019 16:03 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.30 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 16:24:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 16:00:11 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1033189	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	791880	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	433088	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	252278	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	56013	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.67	98	1036442	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	367493	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	423416	0.0308	mg/kg	97
3) Chloromethan	2.06	50	515097	0.0290	mg/kg	99
4) VinylChlorid	2.21	62	458146	0.0296	mg/kg	98
5) Bromomethane	2.67	94	204418	0.0283	mg/kg	98
6) Chloroethane	2.83	64	257516	0.0285	mg/kg	99
7) dichloroflmethane	3.14	67	681323	0.0302	mg/kg	99
8) Trichlorofma	3.21	101	589500	0.0302	mg/kg	99
9) Ethylether	3.66	59	332712	0.0308	mg/kg	98
10) dichlorotfluoroethan	3.68	67	423073	0.0307	mg/kg	97
11) propyleneoxide	3.72	58	516200	0.2840	mg/kg	100
12) Acrolein	3.81	56	362746	0.1506	mg/kg	95
13) 11dichlorthe	3.94	96	352639	0.0295	mg/kg	98
14) Trichlorotfluoroeth	3.96	101	667145	0.0605	mg/kg	98
15) Acetone	4.03	43	959954	0.2787	mg/kg	98
16) Iodomethane	4.12	142	644030	0.0584	mg/kg	98
17) Carbon Dislf	4.20	76	2065918	0.0586	mg/kg	99
18) allylchloride	4.43	41	1436182	0.0596	mg/kg	99
19) methylacetate	4.50	74	113641	0.0298	mg/kg	94
20) Methylchlorid	4.59	84	403515	0.0288	mg/kg	94
21) Acrylonitrile	4.92	53	564569	0.1511	mg/kg	97
22) t12dichlorte	4.96	96	379385	0.0278	mg/kg	98
23) tbutylalcohol	4.80	59	2009575	1.3850	mg/kg	98
24) MtBE	4.97	73	965767	0.0294	mg/kg	98
25) Hexane	5.33	57	1166315	0.0584	mg/kg	98
26) 11dichlorota	5.49	63	685056	0.0277	mg/kg	99
27) Vinylacetate	5.58	43	6482438	0.3177	mg/kg	99
28) chloroprene	5.61	53	1194011	0.0608	mg/kg	99
29) Diisopether	5.61	45	1375382	0.0299	mg/kg#	89
30) ETBE	6.06	59	1193157	0.0301	mg/kg	99
31) 22dichloropr	6.22	77	523743	0.0284	mg/kg	99
32) c12dichlorte	6.23	96	432049	0.0286	mg/kg	97
33) 2Butanone	6.25	72	350276	0.3080	mg/kg	93
34) propionitrile	6.32	54	435330	0.2930	mg/kg	98
35) Ethylacetate	6.35	88	56133	0.1583	mg/kg	94
36) methacrylonitrile	6.52	67	271603	0.0634	mg/kg	99
37) Bromochlorma	6.52	128	198546	0.0295	mg/kg	100
38) Tetrahydofur	6.59	42	1030359	0.2881	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV2.D Vial: 13
Acq On : 12 Nov 2019 16:03 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.30 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 16:24:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 16:00:11 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.62	83	659386	0.0287	mg/kg	97
40)	111trichlota	6.85	97	587251	0.0289	mg/kg	96
42)	Cyclohexane	6.92	56	671560	0.0313	mg/kg	98
43)	Carbtetraclo	7.06	119	506604	0.0300	mg/kg	100
44)	11dicloprope	7.06	110	190753	0.0295	mg/kg	97
46)	Benzene	7.31	78	1518290	0.0284	mg/kg	98
47)	12dichlorota	7.33	62	470944	0.0283	mg/kg	99
48)	TAME	7.46	73	1000610	0.0304	mg/kg	97
49)	trichloroete	8.12	95	386954	0.0282	mg/kg	98
50)	methylcyclohexane	8.36	83	736050	0.0322	mg/kg	98
51)	12dicloropra	8.39	63	427240	0.0289	mg/kg	94
52)	23dicl1propene	8.46	75	570967	0.0303	mg/kg	97
53)	Dibromometha	8.55	93	225141	0.0302	mg/kg	94
54)	methylmethacrylate	8.56	69	223930	0.0321	mg/kg	98
55)	14dioxane	8.58	88	197499	1.5608	mg/kg	98
56)	Bromodiclrma	8.74	83	505716	0.0293	mg/kg	98
57)	2Nitropropane	9.02	43	959320	0.3081	mg/kg	99
58)	c13dicloproe	9.31	75	606440	0.0298	mg/kg	97
59)	4Meth2Pentan	9.51	43	3439376	0.2865	mg/kg	98
61)	Toluene	9.75	92	1010163	0.0284	mg/kg	99
62)	t13Dicloprop	10.03	75	510109	0.0304	mg/kg	99
63)	ethylmethacrylate	10.17	69	900149	0.0615	mg/kg	99
64)	112Triclotha	10.27	83	277301	0.0284	mg/kg	97
65)	Tetrachlorte	10.48	166	454643	0.0282	mg/kg	98
66)	13Diclorpropa	10.49	76	528085	0.0286	mg/kg	98
68)	2Hexanone	10.60	43	2496536	0.3102	mg/kg	98
69)	Clorodibrmta	10.79	129	400194	0.0297	mg/kg	98
70)	12Dibrometha	10.95	107	348682	0.0301	mg/kg	96
71)	Chlorobenzen	11.63	112	1075505	0.0283	mg/kg	99
72)	1Clhexane	11.59	91	520006	0.0314	mg/kg	98
73)	1112Tetclota	11.73	131	402581	0.0286	mg/kg	97
74)	Ethylbenzene	11.78	91	1775829	0.0288	mg/kg	99
75)	m p-Xylene	11.94	106	1407872	0.0577	mg/kg	97
76)	o-Xylene	12.49	106	714784	0.0289	mg/kg	98
77)	Styrene	12.51	104	1134955	0.0297	mg/kg	99
78)	Bromoform	12.76	173	259676	0.0306	mg/kg	98
79)	Isopropylben	13.01	105	1824801	0.0291	mg/kg	99
81)	cyclohexanone	13.12	55	272137	0.5858	mg/kg	98
83)	Bromobenzene	13.44	156	502445	0.0288	mg/kg	98
84)	1122Tetrclta	13.42	83	435843	0.0286	mg/kg	98
85)	123Triclproa	13.49	75	526355	0.0295	mg/kg	97
86)	14dichloro2butene	13.51	53	123602	0.0280	mg/kg	84
87)	n-Propylbenz	13.60	91	1986830	0.0291	mg/kg	97
88)	2chlorotolue	13.72	91	1199503	0.0291	mg/kg	100
89)	4chlorotolue	13.87	91	1344901	0.0291	mg/kg	99
90)	135Trimebenz	13.86	105	1502998	0.0291	mg/kg	100
91)	tbutylbenzen	14.32	119	1343469	0.0295	mg/kg	99
92)	124Trimetben	14.39	105	1495178	0.0283	mg/kg	100
93)	sbutylbenzen	14.64	105	1939776	0.0293	mg/kg	99
94)	13Diclorbenz	14.79	146	908141	0.0279	mg/kg	100
95)	pIsopropylto	14.86	119	1619266	0.0293	mg/kg	99
96)	14dichlorobe	14.92	146	895410	0.0278	mg/kg	98
97)	12dichlorobe	15.46	146	870981	0.0278	mg/kg	99
98)	nButylbenzen	15.46	91	1412576	0.0293	mg/kg	99
99)	12dibromo3cl	16.58	157	92702	0.0283	mg/kg	99
100)	135Trichlorobenzene	16.88	180	679894	0.0285	mg/kg	99
101)	124Trichlobe	17.70	180	605107	0.0284	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV2.D Vial: 13
Acq On : 12 Nov 2019 16:03 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.30 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 16:24:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 16:00:11 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	385289	0.0298	mg/kg	99
103)	Naphthalene	18.01	128	1362600	0.0284	mg/kg	98
104)	123Trichlben	18.32	180	588420	0.0282	mg/kg	98

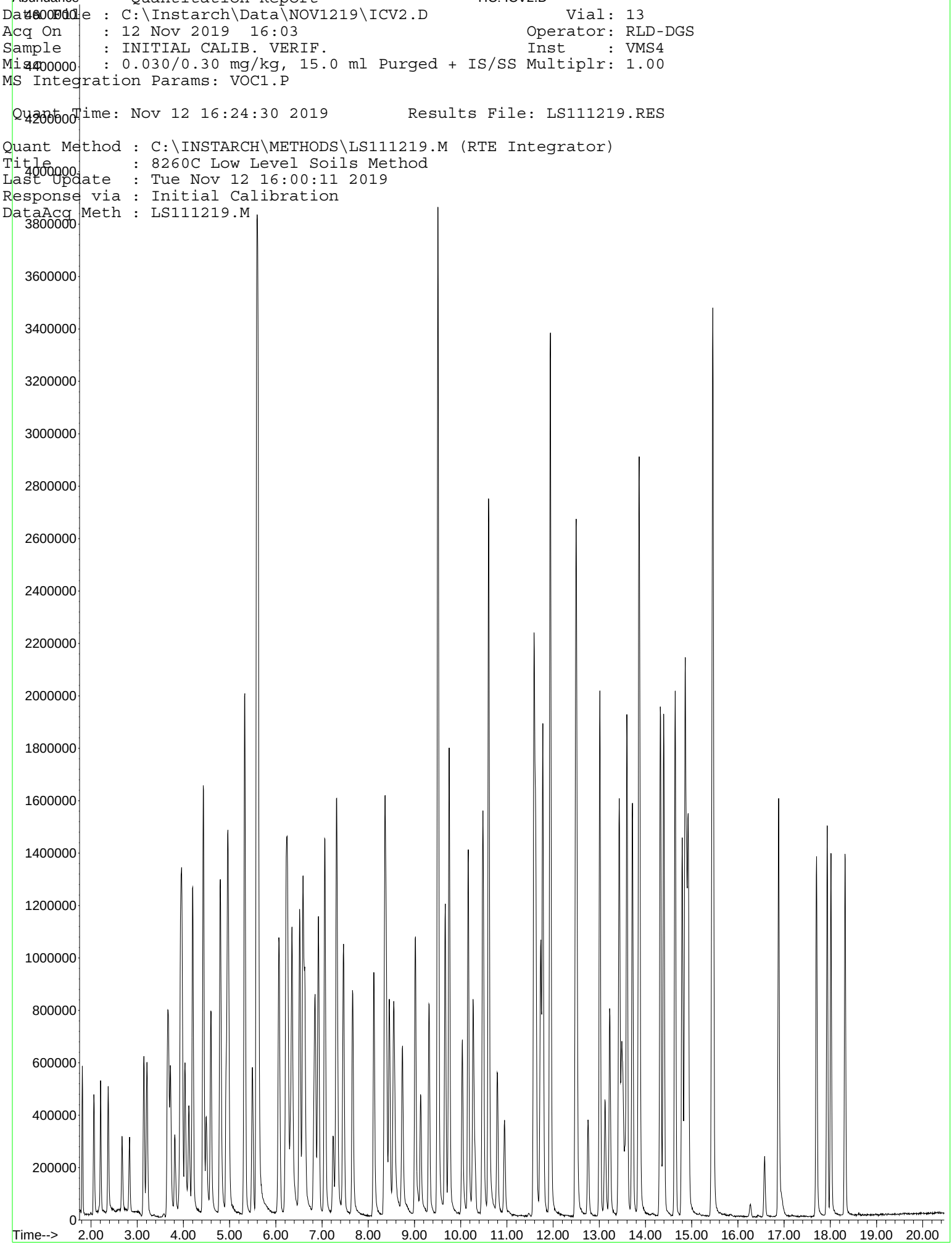
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV2.D

Data File : C:\Instarch\Data\NOV1219\ICV2.D Vial: 13
Acq On : 12 Nov 2019 16:03 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.30 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 16:24:30 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 16:00:11 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Method Path : C:\INSTARCH\METHODS\
Method File : PS102519.M
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response Via : Initial Calibration

RJ 11/20/2019

Calibration Files mg/kg
1 0.025/0.25 =CALS1.D 2 0.050/0.50 =CALS2.D 3 0.100/1.00 =CALS3.D
4 0.250/2.50 =CALS4.D 5 0.500/5.00 =CALS5.D 6 1.00/10.00 =CALS6.D
7 1.50/15.00 =CALS7.D 8 2.00/20.00 =CALS8.D 9 4.00/40.00 =CALS9.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
			8	9							
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------								
2)	T	Dichlorodi	0.374	0.349	0.349	0.227	0.329	0.312	0.334	0.321	13.11
			0.319	0.298							
3)	PT	Chloromethan	0.590	0.539	0.516	0.429	0.435	0.420	0.436	0.468	13.64
			0.436	0.410							
4)	CT	VinylChlorid	0.383	0.360	0.359	0.300	0.365	0.347	0.362	0.351	6.82
			0.356	0.329							
5)	T	Bromomethane		0.101	0.090	0.099	0.075	0.065	0.069	-----	
			0.070	0.080							
								Q	A= 0.005 R=0.999		
									B= 0.057		
									C= 0.005		
6)	T	Chloroethane	0.094	0.089	0.082	0.071	0.067	0.066	0.070	0.075	14.44
			0.071	0.064							
7)	T	dichloroflmetha	0.192	0.265	0.179	0.173	0.141	0.140	0.126	-----	
			0.142	0.130							
								Q	A= -0.002 R=0.998		
									B= 0.136		
									C= 0.004		
8)	T	Trichlorofma	0.199	0.265	0.272	0.225	0.254	0.259	0.235	0.252	11.05
			0.292	0.264							
9)	T	Ethylether	0.274	0.264	0.234	0.243	0.234	0.236	0.234	0.241	6.92
			0.229	0.223							
10)	T	dichlorotfluoro	0.290	0.302	0.304	0.240	0.282	0.281	0.302	0.285	6.99
			0.288	0.273							
11)	T	propyleneoxide	0.061	0.064	0.069	0.065	0.063	0.064	0.066	0.064	3.45
			0.064	0.062							
12)	T	Acrolein	0.027	0.020	0.024	0.023	0.024	0.023	0.023	0.024	7.52
			0.025	0.026							
13)	CT	11dichlorthe	0.285	0.240	0.231	0.197	0.221	0.213	0.231	0.229	10.65
			0.224	0.216							
14)	T	Trichlorotfluor	0.219	0.190	0.202	0.141	0.199	0.196	0.205	0.193	11.24
			0.199	0.188							
15)	T	Acetone	0.148	0.133	0.099	0.113	0.104	0.114	0.118	0.118	12.59
			0.116	0.113							
16)	T	Iodomethane	0.090	0.046	0.050	0.050	0.056	0.076	0.086	-----	
			0.089	0.092							
								Q	A= 0.001 R=0.998		
									B= 0.084		
									C= -0.011		
17)	T	Carbon Dislf	0.614	0.577	0.593	0.507	0.566	0.550	0.566	0.562	5.88
			0.561	0.521							
18)	T	allylchloride	0.600	0.554	0.577	0.538	0.547	0.546	0.537	0.545	7.07
			0.547	0.457							
19)	T	methylacetate		0.106	0.116	0.121	0.110	0.129	0.160	0.127	14.10
			0.136	0.139							
20)	T	Methylchlorid	0.464	0.348	0.305	0.279	0.257	0.259	0.260	-----	
			0.256	0.242							
								Q	A= -0.006 R=1.000		
									B= 0.264		
									C= 0.003		
21)	T	Acrylonitrile	0.082	0.085	0.095	0.113	0.118	0.128	0.130	-----	

```
                    0.129 0.126
                                                        Q  A= -0.000 R=1.000
                                                           B=  0.134
                                                           C= -0.019
22) T   t12dichlorte    0.252 0.258 0.253 0.237 0.232 0.233 0.236 0.239   5.45
                    0.231 0.217
23) T   tbutylalcohol   0.047 0.053 0.052 0.051 0.045 0.047 0.046 0.048   7.66
                    0.046 0.042
24) T   MtBE            0.798 0.707 0.741 0.696 0.672 0.681 0.678 0.697   6.85
                    0.660 0.638
25) T   Hexane          0.532 0.461 0.508 0.334 0.477 0.467 0.479 0.462  12.12
                    0.471 0.429
26) PT  11dichlorota    0.513 0.514 0.537 0.492 0.497 0.519 0.521 0.509   3.64
                    0.510 0.474
27) T   Vinylacetate    0.505 0.520 0.513 0.544 0.535 0.531 0.444 0.484  14.84
                    0.443 0.320
28) T   chloroprene     0.476 0.448 0.448 0.390 0.444 0.440 0.454 0.438   6.12
                    0.440 0.399
29) T   Diisopether     1.048 0.936 1.024 1.025 0.984 0.990 0.980 0.982   4.94
                    0.962 0.891
30) T   ETBE            0.769 0.809 0.839 0.826 0.797 0.807 0.811 0.799   3.42
                    0.784 0.752
31) T   22dichloropr    0.439 0.418 0.399 0.334 0.380 0.368 0.377 0.381   8.73
                    0.371 0.346
32) T   c12dichlorte    0.311 0.281 0.251 0.271 0.264 0.260 0.269 0.269   6.66
                    0.265 0.253
33) T   2Butanone            0.026 0.033 0.034 0.032 0.037 0.038 0.034  11.80
                    0.037 0.037
34) T   propionitrile        0.037 0.042 0.051 0.049 0.055 0.057 -----
                    0.058 0.056
                                                        Q  A= -0.000 R=1.000
                                                           B=  0.060
                                                           C= -0.025
35) T   Ethylacetate         0.006 0.008 0.008 0.009 0.010 0.010 ----- #
                    0.010 0.010
                                                        Q  A=  0.000 R=1.000
                                                           B=  0.010
                                                           C= -0.002
36) T   methacrylonitri 0.099 0.106 0.125 0.132 0.124 0.139 0.138 0.127  11.70
                    0.140 0.137
37) T   Bromochlorma    0.138 0.111 0.114 0.115 0.116 0.113 0.113 0.116   8.04
                    0.115 0.104
38) T   Tetrahydofur    0.108 0.111 0.117 0.124 0.114 0.120 0.121 0.116   4.38
                    0.118 0.111
39) CT  Chloroform      0.550 0.417 0.456 0.436 0.413 0.423 0.427 0.438  10.30
                    0.419 0.399
40) T   111trichlota    0.450 0.341 0.384 0.333 0.369 0.368 0.385 0.374   8.97
                    0.379 0.361
41) S   SURRDibrflma    0.260 0.264 0.262 0.261 0.262 0.258 0.264 0.262   0.72
                    0.261 0.262
42) T   Cyclohexane     0.575 0.433 0.487 0.361 0.492 0.465 0.502 0.474  12.14
                    0.490 0.462
43) T   Carbtetraclo    0.340 0.321 0.321 0.259 0.311 0.312 0.328 0.315   7.21
                    0.325 0.315
44) T   11dicloprope         0.119 0.115 0.102 0.116 0.119 0.124 0.117   5.53
                    0.121 0.116
45) S   SURR12DCAd4     0.062 0.063 0.066 0.065 0.063 0.063 0.070 0.064   3.95
                    0.065 0.063
46) T   Benzene         1.063 0.992 1.058 0.958 0.975 0.992 0.991 0.990   4.96
                    0.980 0.901
47) T   12dichlorota    0.386 0.341 0.370 0.358 0.342 0.360 0.356 0.357   4.04
                    0.352 0.347
48) T   TAME            0.684 0.696 0.701 0.699 0.665 0.684 0.687 0.682   2.52
                    0.672 0.648
49) T   trichloroete    0.232 0.199 0.256 0.239 0.249 0.255 0.264 0.244   7.99
                    0.256 0.246
50) T   methylcyclohexa 0.513 0.499 0.502 0.353 0.515 0.491 0.530 0.489  10.77
                    0.510 0.487
51) CT  12dicloropra    0.303 0.266 0.324 0.311 0.297 0.311 0.316 0.304   5.48
                    0.308 0.297
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52) T   23dicl1propene        0.314 0.369 0.358 0.358 0.364 0.378 0.358   5.35
                      0.365 0.362
53) T   Dibromometha          0.166 0.161 0.163 0.151 0.158 0.158 0.159   2.89
                      0.158 0.156
54) T   methylmethacryl       0.112 0.139 0.175 0.165 0.185 0.188 -----
                      0.189 0.192
                                                  Q  A=  0.001 R=1.000
                                                     B=  0.190
                                                     C= -0.006
55) T   14dioxane             0.004 0.004 0.004 0.004 0.004 0.004 0.004#  5.76
                      0.004 0.004
56) T   Bromodiclrma    0.294 0.277 0.311 0.316 0.304 0.321 0.324 0.310   4.99
                      0.321 0.319
57) T   2Nitropropane         0.081 0.089 0.091 0.093 0.103 0.109 0.098  11.09
                      0.109 0.109
58)     2CLEVE                0.159 0.176 0.198 0.194 0.204 0.204 0.190   8.26
                      0.199 0.187
59) T   c13dicloproe    0.361 0.370 0.414 0.430 0.409 0.427 0.430 0.409   6.26
                      0.422 0.417
60) T   4Meth2Pentan    0.325 0.344 0.358 0.376 0.346 0.345 0.331 0.330  12.08
                      0.307 0.237
61) S   SURRd8Tolule    1.021 1.016 1.024 1.024 1.020 1.010 1.014 1.019   0.52
                      1.014 1.024
62) CT  Toluene         0.723 0.652 0.665 0.641 0.646 0.653 0.663 0.657   4.39
                      0.651 0.615
63) T   t13Dicloprop    0.269 0.298 0.334 0.357 0.355 0.379 0.385 0.349  11.78
                      0.383 0.377
64) T   ethylmethacryla       0.307 0.322 0.370 0.353 0.373 0.382 0.355   7.64
                      0.375 0.358
65) T   112Triclotha          0.194 0.202 0.209 0.196 0.197 0.199 0.198   2.81
                      0.199 0.190
66) T   Tetrachlorte    0.280 0.297 0.268 0.242 0.274 0.270 0.278 0.272   5.45
                      0.274 0.264
67) T   13Diclorpropa   0.392 0.368 0.389 0.406 0.385 0.408 0.403 0.393   3.17
                      0.398 0.386

68) I   d5-CHLOROBENZENE**IST ----------------ISTD--------------------
69) T   2Hexanone       0.216 0.267 0.290 0.335 0.309 0.320 0.320 0.290  13.50
                      0.303 0.247
70) T   Clorodibrmta    0.277 0.286 0.269 0.287 0.281 0.294 0.303 0.290   4.85
                      0.307 0.310
71) T   12Dibrometha    0.291 0.281 0.304 0.309 0.298 0.304 0.310 0.301   3.13
                      0.308 0.304
72) PT  Chlorobenzen    0.932 0.844 0.879 0.841 0.844 0.836 0.841 0.848   4.67
                      0.831 0.784
73) T   1Clhexane       0.505 0.439 0.429 0.342 0.425 0.411 0.423 0.424   9.77
                      0.427 0.412
74) T   1112Tetclota          0.284 0.281 0.295 0.291 0.292 0.303 0.293   2.58
                      0.300 0.298
75) CT  Ethylbenzene    1.612 1.417 1.481 1.435 1.475 1.464 1.504 1.464   5.20
                      1.461 1.325
76) T   m p-Xylene      0.593 0.493 0.575 0.553 0.555 0.561 0.571 0.553   5.45
                      0.559 0.519
77) T   o-Xylene        0.617 0.560 0.556 0.576 0.568 0.564 0.570 0.567   3.92
                      0.556 0.534
78) T   Styrene         0.838 0.832 0.818 0.925 0.906 0.923 0.937 0.888   5.23
                      0.927 0.884
79) PT  Bromoform             0.196 0.184 0.191 0.185 0.200 0.204 0.198   5.93
                      0.209 0.217
80) T   Isopropylben    1.553 1.455 1.531 1.422 1.480 1.453 1.491 1.463   4.61
                      1.462 1.319

81) I   d4-1,4-DICHLOROBENZEN ----------------ISTD--------------------
82) T   cyclohexanone         0.048 0.044 0.042 0.039 0.041 0.041 0.042   6.40
                      0.041 0.040
83) S   SURR4BrFBenz    0.958 0.944 0.982 0.951 0.951 0.981 0.961 0.962   1.36
                      0.965 0.967
84) T   Bromobenzene    0.685 0.654 0.671 0.693 0.669 0.690 0.676 0.675   1.96
                      0.679 0.660
85) PT  1122-Tetrclta   0.894 0.889 0.800 0.853 0.797 0.837 0.828 0.836   4.36
```

			0.822	0.803						
86)	T	123Triclproa		0.852	0.894	1.091	1.016	1.072	1.087	1.016	9.11
			1.076	1.044						
87)	T	14dichloro2bute		0.209	0.279	0.262	0.253	0.281	0.259	0.257	8.58
			0.254	0.261						
88)	T	n-Propylbenz	3.026	3.044	3.209	3.063	3.261	3.319	3.304	3.148	4.88
			3.233	2.868						
89)	T	2chlorotolue	1.874	1.939	1.958	1.866	1.901	1.922	1.901	1.889	3.07
			1.883	1.757						
90)	T	4chlorotolue	2.135	2.045	2.065	2.130	2.114	2.168	2.181	2.109	2.70
			2.132	2.012						
91)	T	135Trimebenz	2.437	2.272	2.441	2.279	2.303	2.338	2.333	2.314	4.05
			2.291	2.129						
92)	T	tbutylbenzen	2.107	2.028	2.076	1.848	2.005	2.009	2.039	2.003	4.13
			2.021	1.892						
93)	T	124Trimetben	2.338	2.170	2.318	2.315	2.266	2.318	2.322	2.271	3.39
			2.275	2.117						
94)	T	sbutylbenzen	3.069	2.925	3.023	2.616	2.973	2.985	2.997	2.912	5.51
			2.958	2.661						
95)	T	13Diclorbenz	1.320	1.182	1.332	1.282	1.249	1.284	1.266	1.267	3.74
			1.270	1.214						
96)	T	pIsopropylto	2.486	2.344	2.432	2.274	2.466	2.499	2.509	2.418	3.98
			2.484	2.270						
97)	T	14dichlorobe	1.295	1.359	1.310	1.275	1.210	1.266	1.262	1.269	3.79
			1.240	1.208						
98)	T	12dichlorobe	1.255	1.265	1.225	1.200	1.157	1.189	1.174	1.196	3.70
			1.168	1.136						
99)	T	nButylbenzen	2.258	2.158	2.238	2.004	2.252	2.278	2.297	2.209	4.35
			2.274	2.122						
100)	T	12dibromo3cl		0.214	0.180	0.173	0.168	0.182	0.186	0.185	7.58
			0.185	0.195						
101)	T	135Trichloroben	0.749	0.811	0.810	0.842	0.821	0.845	0.843	0.820	3.61
			0.832	0.825						
102)	T	124Trichlobe	0.762	0.730	0.724	0.728	0.736	0.780	0.776	0.756	3.47
			0.787	0.783						
103)	T	Hexachlorobu	0.411	0.413	0.378	0.328	0.365	0.371	0.382	0.381	6.74
			0.393	0.387						
104)	T	Naphthalene	1.996	2.131	1.954	2.046	1.953	2.086	2.094	2.037	3.13
			2.071	2.000						
105)	T	123Trichlben	0.678	0.661	0.670	0.700	0.686	0.718	0.725	0.696	3.33
			0.714	0.714						

Total Average %RSD 6.54

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

PS102519.M Tue Nov 19 08:45:44 2019

Data File : C:\Instarch\Data\OCT2519C\BFB1.D Vial: 1
Acq On : 25 Oct 2019 23:34 Operator: RLD-DGS
Sample : BFB DIRECT INJ. Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS102519.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.621 to 4.643 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	9133	PASS
75	95	30	60	48.4	18796	PASS
95	95	100	100	100.0	38820	PASS
96	95	5	9	6.7	2589	PASS
173	174	0.00	2	0.9	288	PASS
174	95	50	100	81.1	31468	PASS
175	174	5	9	8.9	2807	PASS
176	174	95	101	101.0	31773	PASS
177	176	5	9	6.3	1991	PASS

PS102519.M Tue Nov 19 08:30:50 2019

Quantitation Report

Data File : C:\Instarch\Data\OCT2519C\CALS1.D Vial: 5
Acq On : 26 Oct 2019 1:20 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:06:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:58 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.65	96	1335588	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	1070598	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	560514	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	347209	0.994	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
45) SURR12DCAd4	7.24	102	83203	0.966	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
61) SURRd8Tolule	9.67	98	1363416	1.002	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	537058	0.996	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	12500	0.0291	mg/kg	95
3) Chloromethan	2.06	50	19710m	0.0309	mg/kg	93
4) VinylChlorid	2.21	62	12783	0.0273	mg/kg	95
5) Bromomethane	2.66	94	6432	0.0494	mg/kg#	32
6) Chloroethane	2.79	64	3135	0.0302	mg/kg#	52
7) dichloroflmethane	3.10	67	6419	0.0255	mg/kg#	66
8) Trichlorofma	3.14	101	6646	0.0193	mg/kg#	40
9) Ethylether	3.67	59	9134	0.0284	mg/kg	96
10) dichlorotfluoroethan	3.66	67	9680	0.0255	mg/kg#	75
11) propyleneoxide	3.73	58	20532	0.2390	mg/kg	91
12) Acrolein	3.87	56	4437m	0.1268	mg/kg#	43
13) 11dichlorthe	3.89	96	9501	0.0311	mg/kg#	86
14) Trichlorotfluoroeth	3.91	101	14602	0.0566	mg/kg	96
15) Acetone	4.12	43	49361m	0.3695	mg/kg#	52
16) Iodomethane	4.08	127	6033m	0.0606	mg/kg#	89
17) Carbon Dislf	4.15	76	41002	0.0547	mg/kg	96
18) allylchloride	4.41	41	40054	0.0551	mg/kg	92
19) methylacetate	4.54	74	5030	0.0307	mg/kg	80
20) Methylchlorid	4.59	84	15487	0.0391	mg/kg	92
21) Acrylonitrile	5.02	53	13620	0.0913	mg/kg	89
22) t12dichlorte	4.95	96	8398	0.0263	mg/kg	88
23) tbutylalcohol	4.93	59	78344	1.2321	mg/kg	98
24) MtBE	4.99	73	26630	0.0286	mg/kg#	60
25) Hexane	5.30	57	35554	0.0576	mg/kg	95
26) 11dichlorota	5.49	63	17132	0.0252	mg/kg	89
27) Vinylacetate	5.63	43	168476m	0.2719	mg/kg	99
28) chloroprene	5.60	53	31818	0.0544	mg/kg	97
29) Diisopether	5.63	45	34991	0.0267	mg/kg#	54
30) ETBE	6.08	59	25669	0.0240	mg/kg	90
31) 22dichloropr	6.22	77	14664	0.0288	mg/kg	83
32) c12dichlorte	6.24	96	10369	0.0288	mg/kg	95
33) 2Butanone	6.35	72	7056	0.1552	mg/kg	67
34) propionitrile	6.38	54	1479	0.0221	mg/kg#	60
35) Ethylacetate	6.40	88	1153	0.0989	mg/kg#	16
36) methacrylonitrile	6.55	67	6616m	0.0401	mg/kg#	94
37) Bromochlorma	6.53	128	4617	0.0299	mg/kg#	77
38) Tetrahydofur	6.62	42	36212	0.2333	mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT2519C\CALS1.D Vial: 5
Acq On : 26 Oct 2019 1:20 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:06:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:58 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	18380	0.0314 mg/kg	86
40)	111trichlota	6.85	97	15024	0.0301 mg/kg	90
42)	Cyclohexane	6.90	56	19212	0.0303 mg/kg	93
43)	Carbtetraclo	7.04	119	11343	0.0270 mg/kg	94
44)	11dicloprope	7.07	110	3469	0.0224 mg/kg#	78
46)	Benzene	7.32	78	35504	0.0269 mg/kg#	74
47)	12dichlorota	7.35	62	12901	0.0271 mg/kg#	95
48)	TAME	7.48	73	22855	0.0251 mg/kg	84
49)	trichloroete	8.12	95	7740	0.0238 mg/kg	95
50)	methylcyclohexane	8.35	83	17116	0.0262 mg/kg	99
51)	12dicloropra	8.39	63	10115	0.0249 mg/kg#	91
52)	23dicl1propene	8.48	75	11837	0.0247 mg/kg	78
53)	Dibromometha	8.57	93	5205	0.0245 mg/kg	97
54)	methylmethacrylate	8.55	69	1010	0.0046 mg/kg#	44
55)	14dioxane	8.63	88	3032	0.5598 mg/kg#	65
56)	Bromodiclrma	8.75	83	9815	0.0237 mg/kg	95
57)	2Nitropropane	9.04	43	28261	0.2158 mg/kg	96
58)	2CLEVE	9.17	63	21850	0.0861 mg/kg	91
59)	c13dicloproe	9.33	75	12050	0.0221 mg/kg	83
60)	4Meth2Pentan	9.53	43	108415	0.2461 mg/kg	97
62)	Toluene	9.76	92	24141	0.0275 mg/kg	94
63)	t13Dicloprop	10.08	75	8972	0.0193 mg/kg	96
64)	ethylmethacrylate	10.18	69	15425	0.0325 mg/kg#	75
65)	112Triclotha	10.28	83	7288	0.0275 mg/kg	95
66)	Tetrachlorte	10.49	166	9343	0.0257 mg/kg	95
67)	13Diclorpropa	10.50	76	13092	0.0250 mg/kg	90
69)	2Hexanone	10.65	43	57731	0.1862 mg/kg	98
70)	Clorodibrmta	10.79	129	7401	0.0238 mg/kg	97
71)	12Dibrometha	10.96	107	7792	0.0242 mg/kg	88
72)	Chlorobenzen	11.63	112	24932	0.0275 mg/kg#	63
73)	1Clhexane	11.61	91	13506	0.0298 mg/kg#	17
74)	1112Tetclota	11.74	131	8295	0.0265 mg/kg#	61
75)	Ethylbenzene	11.78	91	43157	0.0275 mg/kg	90
76)	m p-Xylene	11.95	106	31736	0.0536 mg/kg	88
77)	o-Xylene	12.50	106	16515	0.0272 mg/kg	98
78)	Styrene	12.52	104	22438	0.0236 mg/kg#	57
79)	Bromoform	12.78	173	5129	0.0242 mg/kg	94
80)	Isopropylben	13.02	105	41574	0.0265 mg/kg	99
82)	cyclohexanone	13.15	55	9164	0.3877 mg/kg#	78
84)	Bromobenzene	13.45	156	9599	0.0254 mg/kg	91
85)	1122Tetrclta	13.43	83	12528	0.0267 mg/kg	92
86)	123Triclproa	13.50	75	12906	0.0227 mg/kg	88
87)	14dichloro2butene	13.54	53	4027	0.0279 mg/kg#	49
88)	n-Propylbenz	13.61	91	42402	0.0240 mg/kg	94
89)	2chlorotolue	13.72	91	26258	0.0248 mg/kg	94
90)	4chlorotolue	13.88	91	29921	0.0253 mg/kg	98
91)	135Trimebenz	13.85	105	34153	0.0263 mg/kg	99
92)	tbutylbenzen	14.33	119	29522	0.0263 mg/kg	98
93)	124Trimetben	14.41	105	32760	0.0257 mg/kg	100
94)	sbutylbenzen	14.65	105	43012	0.0264 mg/kg	100
95)	13Diclorbenz	14.81	146	18503	0.0261 mg/kg	96
96)	pIsopropylto	14.87	119	34831	0.0257 mg/kg#	96
97)	14dichlorobe	14.93	146	18143	0.0255 mg/kg#	79
98)	12dichlorobe	15.46	146	17588	0.0262 mg/kg#	62
99)	nButylbenzen	15.46	91	31640	0.0256 mg/kg	100
100)	12dibromo3cl	16.57	157	3203	0.0309 mg/kg	93
101)	135Trichlorobenzene	16.89	180	10494	0.0228 mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT2519C\CALS1.D Vial: 5
Acq On : 26 Oct 2019 1:20 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:06:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:58 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.71	180	10673	0.0252	mg/kg	98
103)	Hexachlorobu	17.93	225	5763	0.0270	mg/kg	96
104)	Naphthalene	18.02	128	27976	0.0245	mg/kg	97
105)	123Trichlben	18.33	180	9499	0.0243	mg/kg	86

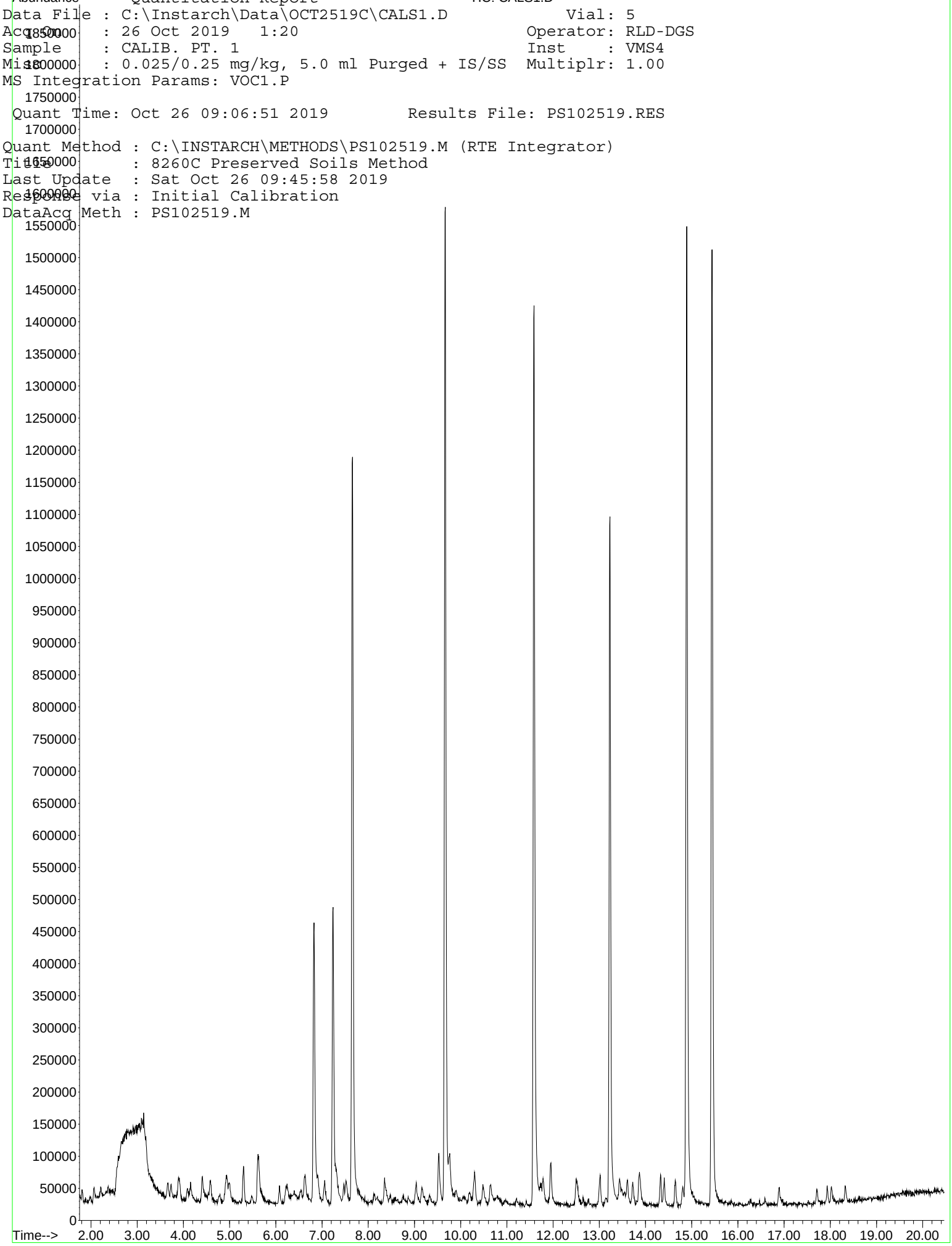
(#) = qualifier out of range (m) = manual integration

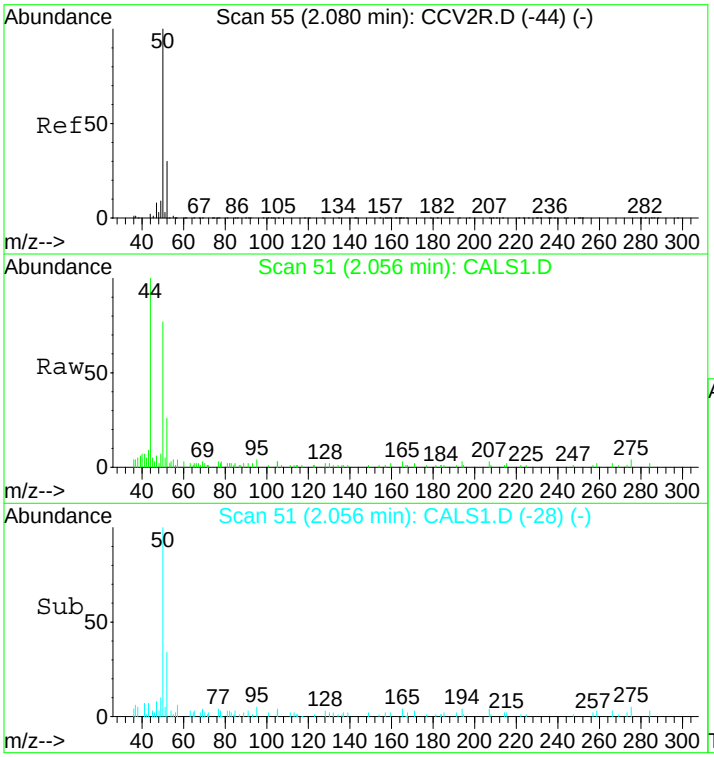
Abundance Quantitation Report TIC: CALS1.D

Data File : C:\Instarch\Data\OCT2519C\CALS1.D Vial: 5
Acq On : 26 Oct 2019 1:20 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:06:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:58 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

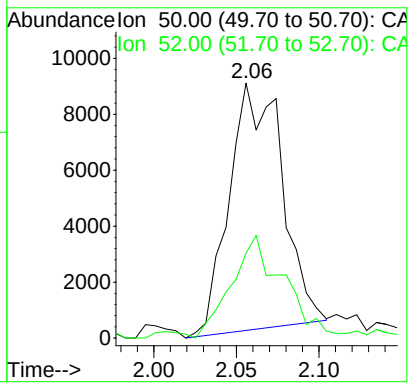




#3
Chloromethan
Concen: 0.03 mg/kg m
RT: 2.06 min Scan# 51
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

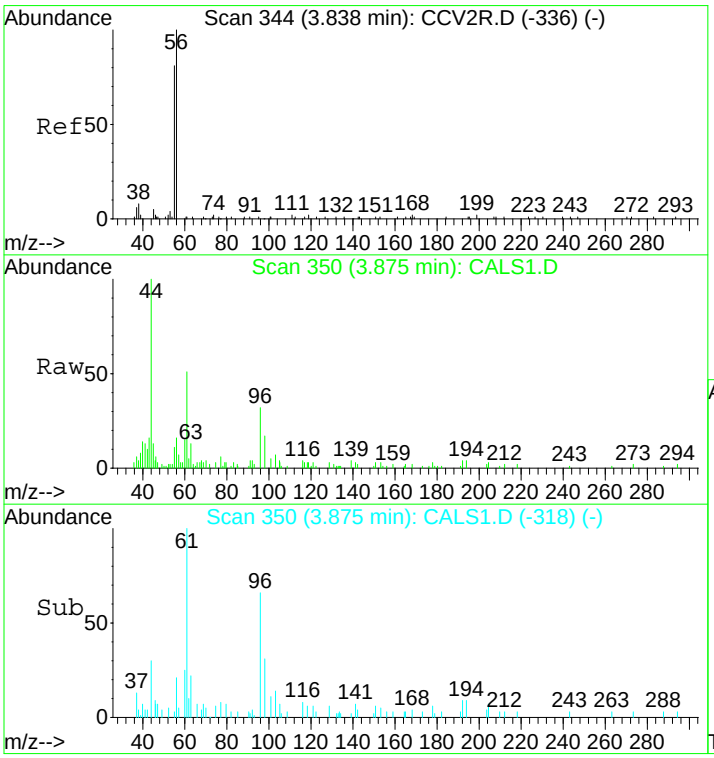
Tgt Ion: 50 Resp: 19710

Ion	Ratio	Lower	Upper
50	100		
52	42.7	13.0	53.0



After Manual Integration

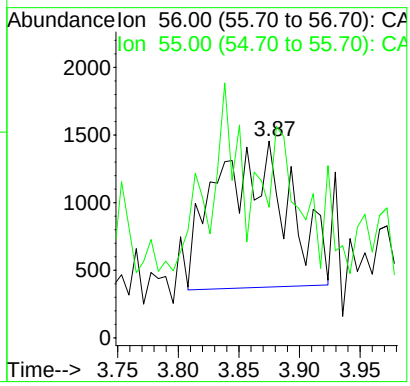
RJ 11/20/2019



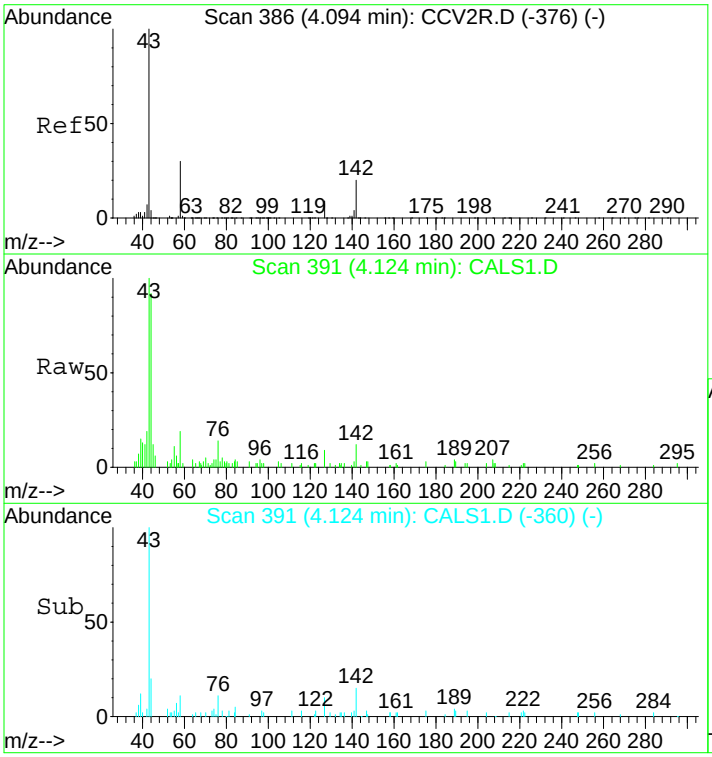
#12
Acrolein
Concen: 0.13 mg/kg m
RT: 3.87 min Scan# 350
Delta R.T. 0.04 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

Tgt Ion: 56 Resp: 4437

Ion	Ratio	Lower	Upper
56	100		
55	31.9	47.3	87.3#



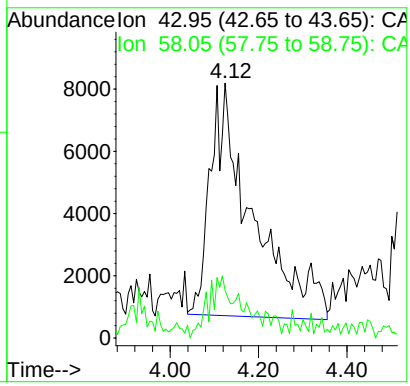
DGS 11/20/2019

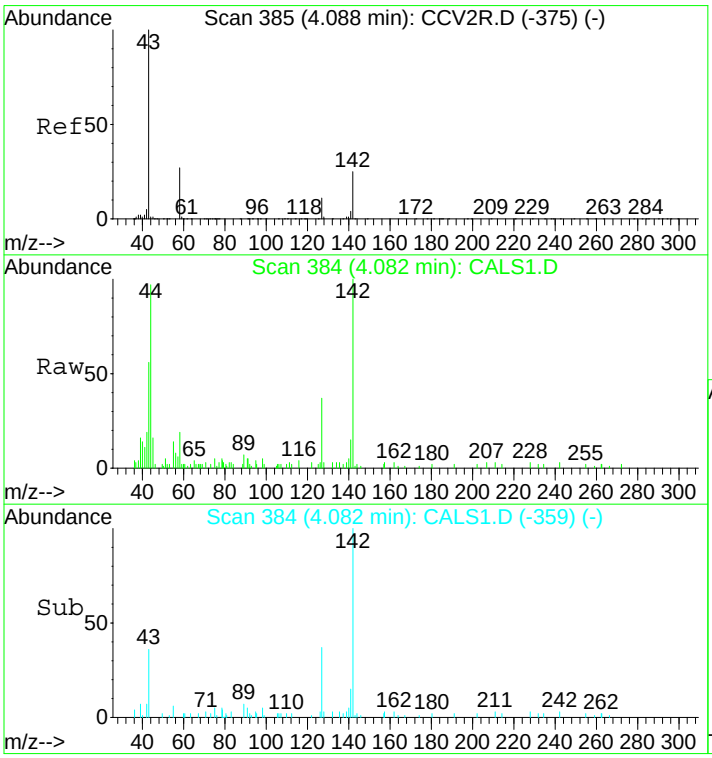


#15
Acetone
Concen: 0.37 mg/kg m
RT: 4.12 min Scan# 391
Delta R.T. 0.04 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

Tgt Ion: 43 Resp: 49361

Ion	Ratio	Lower	Upper
43	100		
58	3.2	7.0	47.0#

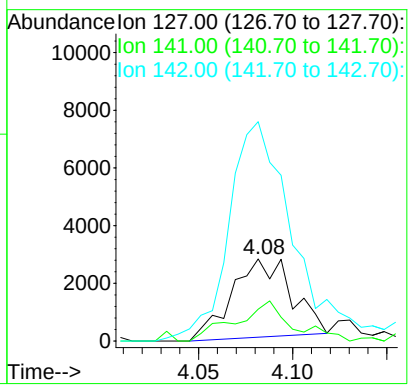




#16
Iodomethane
Concen: 0.06 mg/kg m
RT: 4.08 min Scan# 384
Delta R.T. -0.00 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

Tgt Ion:127 Resp: 6033

Ion	Ratio	Lower	Upper
127	100		
141	49.0	13.4	53.4
142	320.1	220.0	260.0#



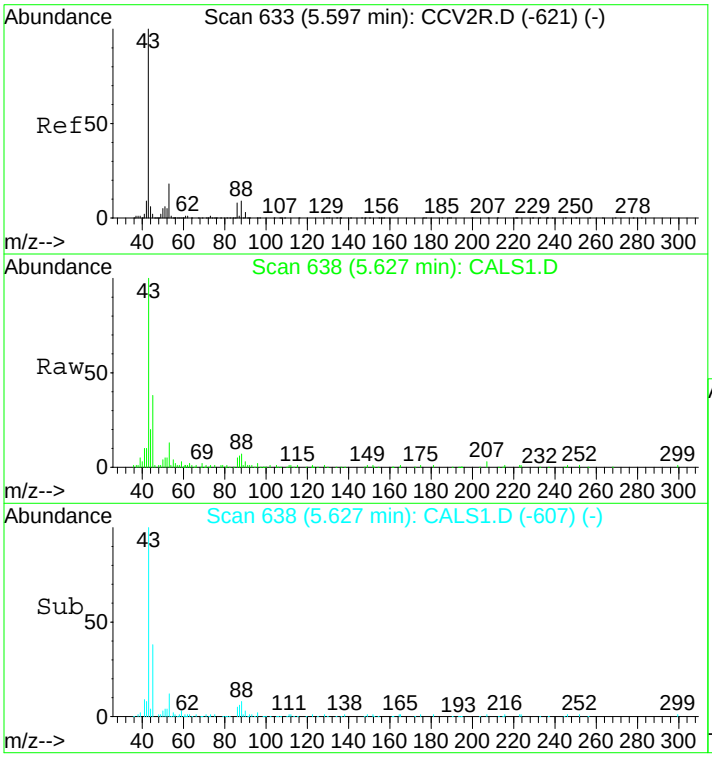
After Manual Integration

RJ 11/20/2019

DGS 11/20/2019

After Manual Integration

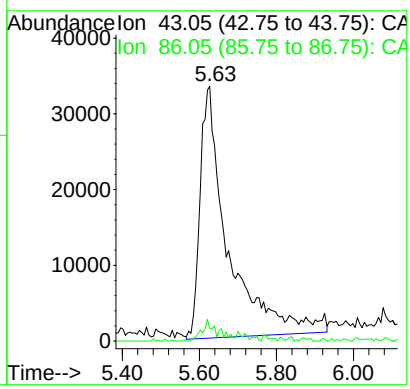
11/20/2019

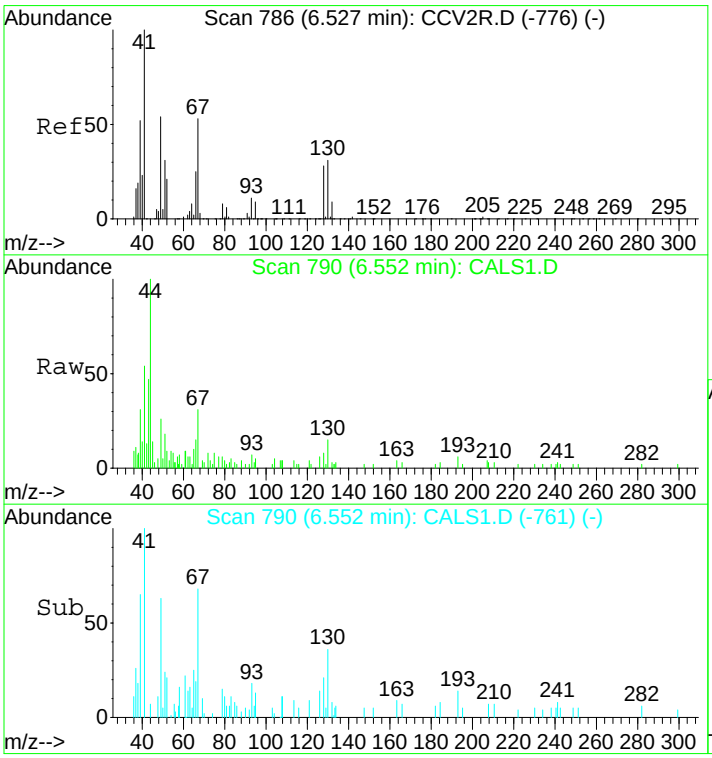


#27
Vinylacetate
Concen: 0.27 mg/kg m
RT: 5.63 min Scan# 638
Delta R.T. 0.04 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

Tgt Ion: 43 Resp: 168476

Ion	Ratio	Lower	Upper
43	100		
86	4.7	0.0	26.5

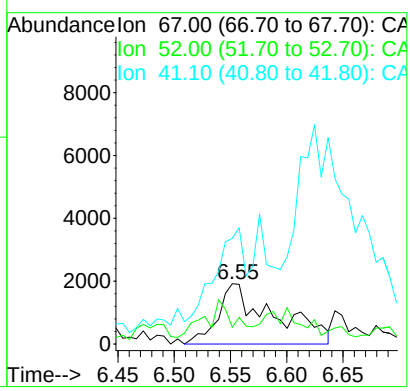




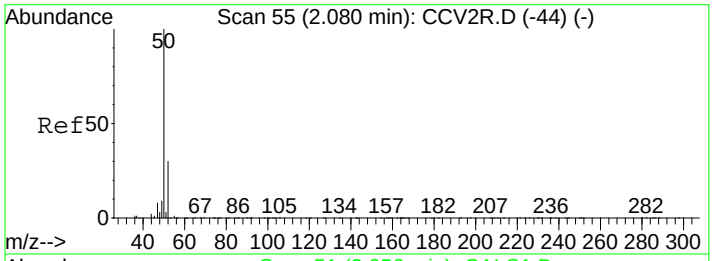
#36
methacrylonitrile
Concen: 0.04 mg/kg m
RT: 6.55 min Scan# 790
Delta R.T. 0.02 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

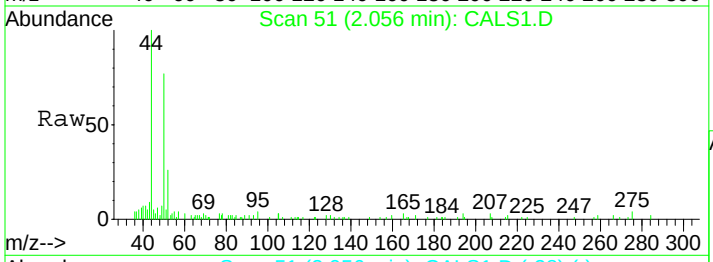
Tgt Ion: 67 Resp: 6616

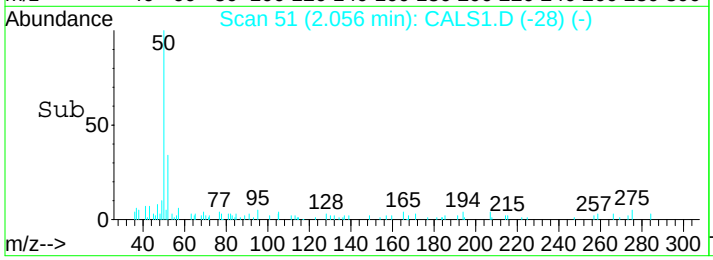
Ion	Ratio	Lower	Upper
67	100		
52	32.5	22.6	62.6
41	136.4	148.5	188.5#



DGS 11/20/2019



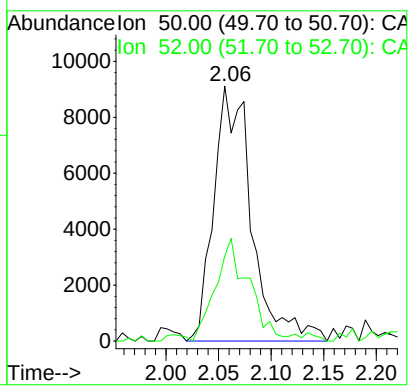




#3
Chloromethan
Concen: 0.04 mg/kg
RT: 2.06 min Scan# 51
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

Tgt Ion: 50 Resp: 22815

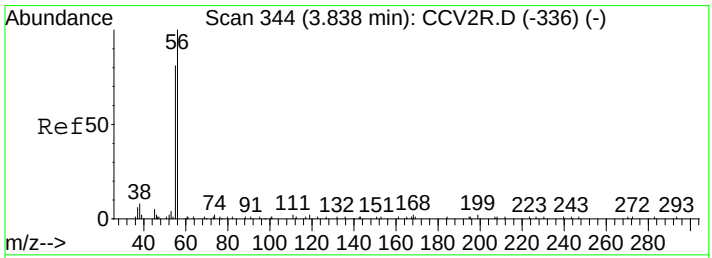
Ion	Ratio	Lower	Upper
50	100		
52	36.9	13.0	53.0

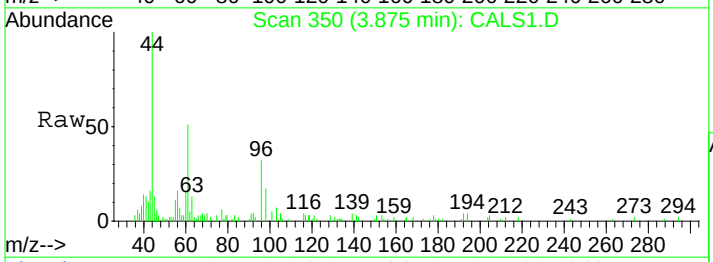


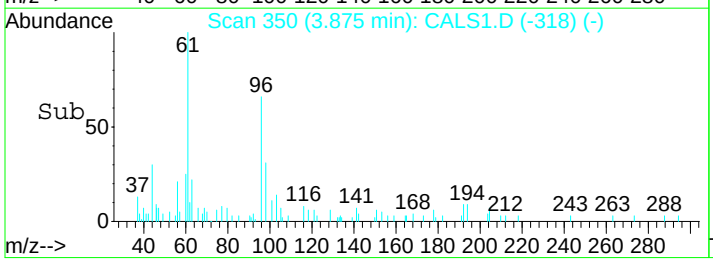
Before Manual Integration

RJ 11/20/2019

REASON # 2



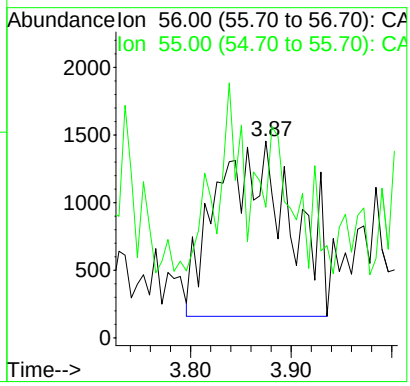




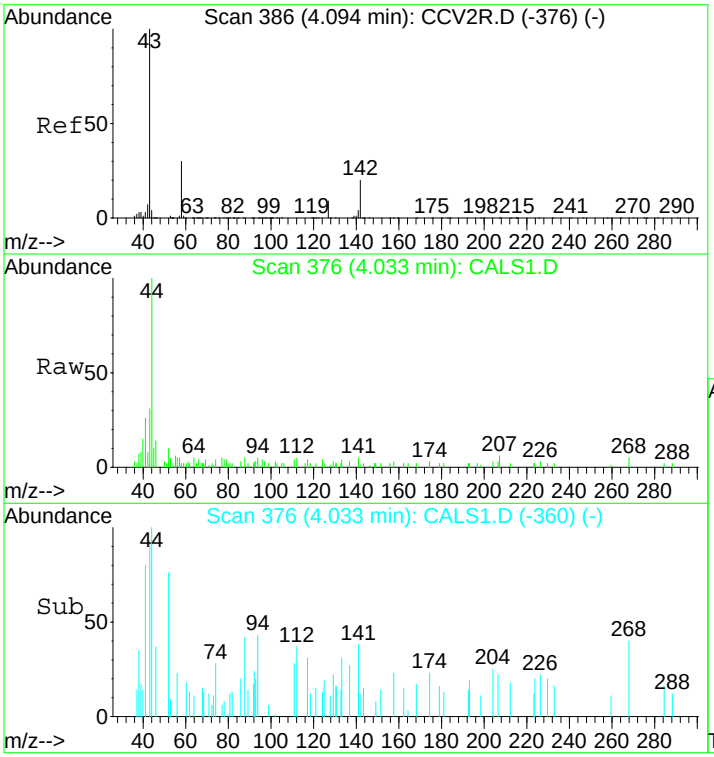
#12
Acrolein
Concen: 0.21 mg/kg
RT: 3.87 min Scan# 350
Delta R.T. 0.04 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

Tgt Ion: 56 Resp: 6596

Ion	Ratio	Lower	Upper
56	100		
55	21.4	47.3	87.3#



REASON # 2



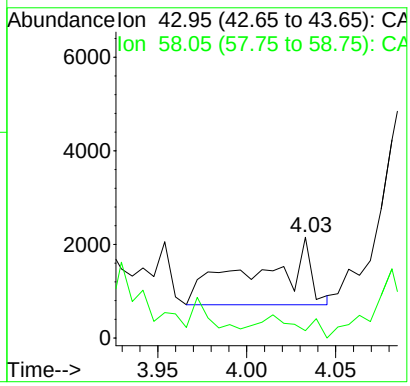
#15
Acetone
Concen: 0.02 mg/kg
RT: 4.03 min Scan# 376
Delta R.T. -0.05 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

Tgt Ion: 43 Resp: 3013

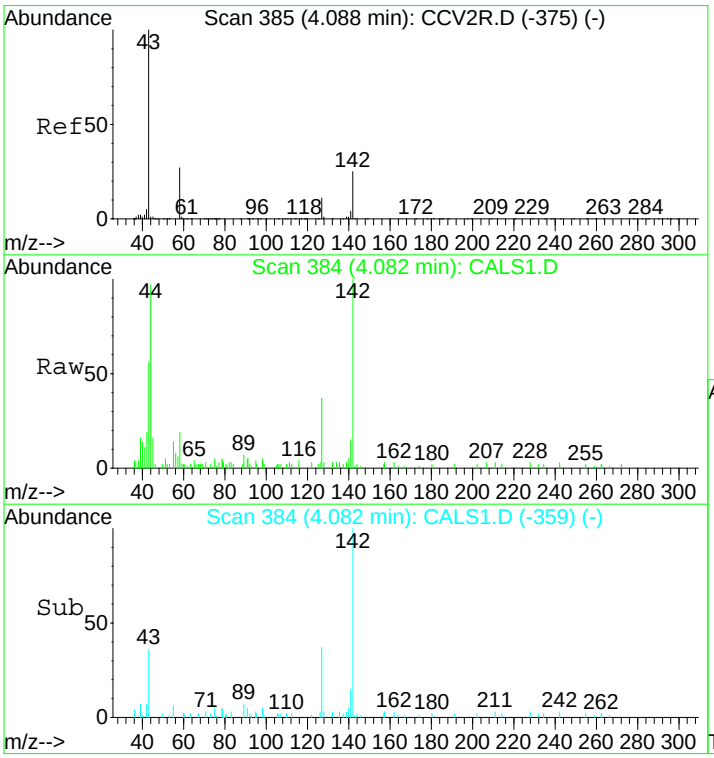
Ion	Ratio	Lower	Upper
43	100		
58	51.8	7.0	47.0#

Before Manual Integration

11/20/2019



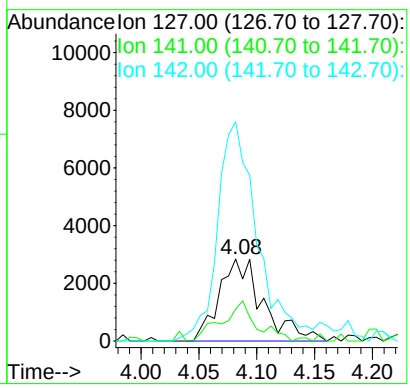
REASON # 2



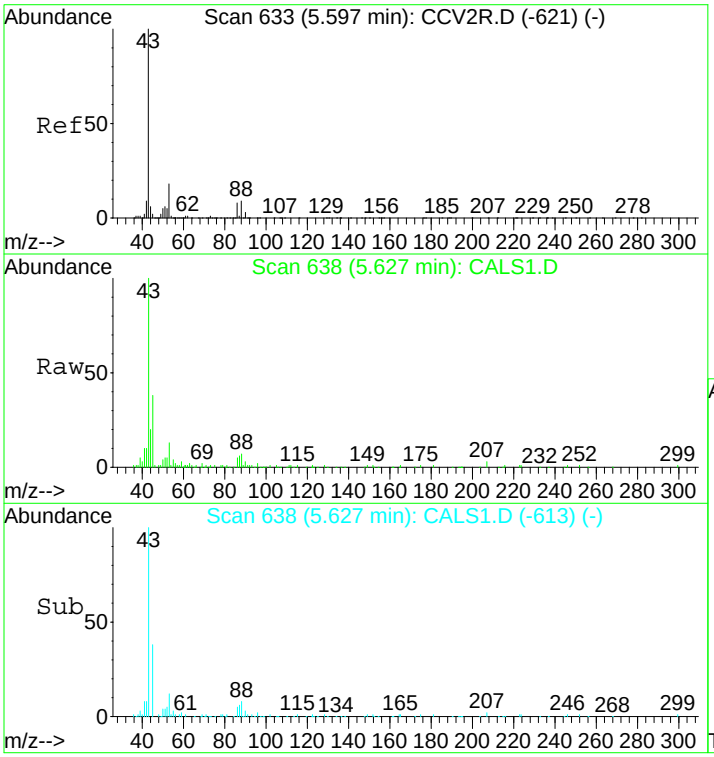
#16
Iodomethane
Concen: 0.19 mg/kg
RT: 4.08 min Scan# 384
Delta R.T. 0.00 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

Tgt Ion:127 Resp: 7489

Ion	Ratio	Lower	Upper
127	100		
141	39.4	13.4	53.4
142	257.8	220.0	260.0



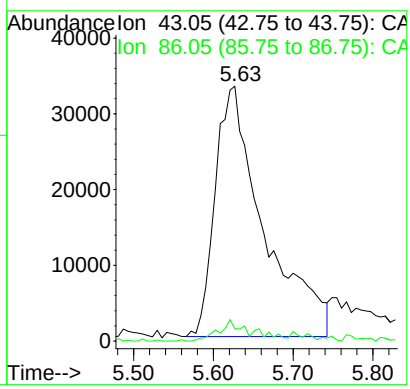
REASON # 2



#27
Vinylacetate
Concen: 0.22 mg/kg
RT: 5.63 min Scan# 638
Delta R.T. -0.00 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

Tgt Ion: 43 Resp: 140352

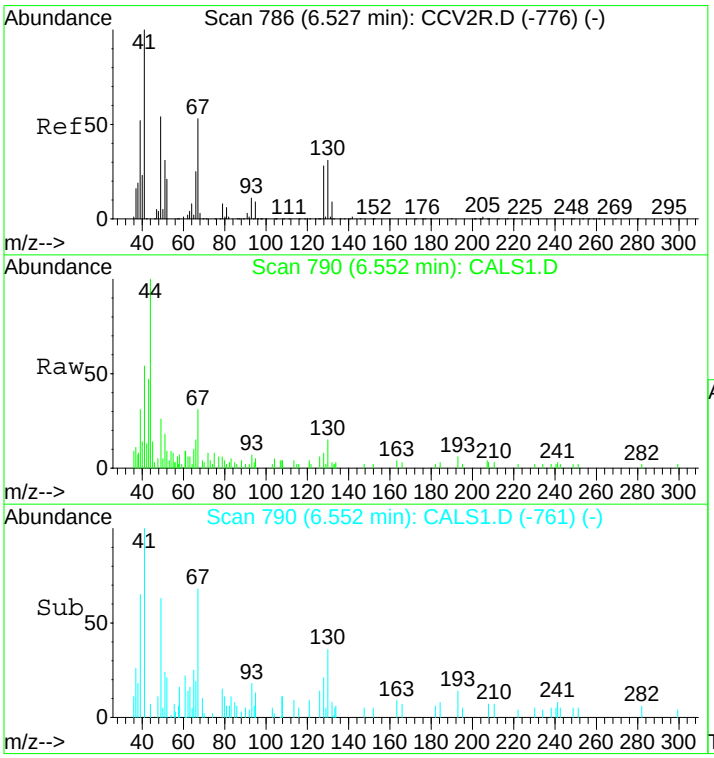
Ion	Ratio	Lower	Upper
43	100		
86	5.7	0.0	26.5



Before Manual Integration

11/20/2019

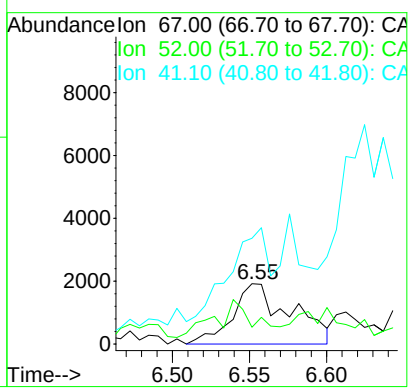
REASON # 2



#36
methacrylonitrile
Concen: 0.03 mg/kg
RT: 6.55 min Scan# 790
Delta R.T. 0.02 min
Lab File: CALS1.D
Acq: 26 Oct 2019 1:20

Tgt Ion: 67 Resp: 5053

Ion	Ratio	Lower	Upper
67	100		
52	42.5	22.6	62.6
41	178.6	148.5	188.5



REASON # 2

Quantitation Report

Data File : C:\Instarch\Data\OCT2519C\CALS2.D Vial: 6
Acq On : 26 Oct 2019 1:48 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.050/0.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:11:40 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:41 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1397337	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	1131364	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	594903	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	368227	1.008	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.23	102	87634	0.972	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
61) SURRd8Tolule	9.67	98	1420302	0.998	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	561586	0.981	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	24412	0.0544	mg/kg	99
3) Chloromethan	2.06	50	37629	0.0563	mg/kg	99
4) VinylChlorid	2.21	62	25127	0.0512	mg/kg	96
5) Bromomethane	2.66	94	7074m	0.0519	mg/kg#	79
6) Chloroethane	2.79	64	6223m	0.0573	mg/kg	75
7) dichloroflmethane	3.10	67	18502m	0.0704	mg/kg#	1
8) Trichlorofma	3.13	101	18543m	0.0515	mg/kg#	71
9) Ethylether	3.66	59	18434	0.0547	mg/kg	88
10) dichlorotfluoroethan	3.66	67	21082	0.0530	mg/kg	90
11) propyleneoxide	3.73	58	44956	0.5003	mg/kg	97
12) Acrolein	3.84	56	7113m	0.1943	mg/kg	92
13) 11dichlorthe	3.89	96	16763	0.0525	mg/kg	92
14) Trichlorotfluoroeth	3.93	101	26523	0.0983	mg/kg	97
15) Acetone	4.10	43	92906m	0.6646	mg/kg	96
16) Iodomethane	4.09	127	6462m	0.0620	mg/kg#	88
17) Carbon Dislf	4.15	76	80654	0.1028	mg/kg	99
18) allylchloride	4.41	41	77392	0.1017	mg/kg	98
19) methylacetate	4.54	74	7377m	0.0431	mg/kg	93
20) Methylchlorid	4.59	84	24344	0.0587	mg/kg	99
21) Acrylonitrile	4.98	53	29582	0.1896	mg/kg	90
22) t12dichlorte	4.95	96	18058	0.0541	mg/kg	90
23) tbutylalcohol	4.90	59	185164	2.7834	mg/kg	83
24) MtBE	4.99	73	49389	0.0507	mg/kg	91
25) Hexane	5.30	57	64376	0.0997	mg/kg	95
26) 11dichlorota	5.49	63	35931	0.0505	mg/kg	98
27) Vinylacetate	5.60	43	363465m	0.5607	mg/kg	98
28) chloroprene	5.60	53	62579	0.1023	mg/kg	93
29) Diisopether	5.63	45	65362	0.0476	mg/kg#	87
30) ETBE	6.08	59	56535	0.0506	mg/kg	97
31) 22dichloropr	6.22	77	29232	0.0549	mg/kg	92
32) c12dichlorte	6.23	96	19652	0.0522	mg/kg	94
33) 2Butanone	6.30	72	17900	0.3763	mg/kg#	53
34) propionitrile	6.41	54	26160m	0.3738	mg/kg	76
35) Ethylacetate	6.42	88	2225m	0.1824	mg/kg#	1
36) methacrylonitrile	6.55	67	14878m	0.0863	mg/kg	93
37) Bromochlorma	6.52	128	7746	0.0480	mg/kg#	83
38) Tetrahydofur	6.62	42	77716	0.4787	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT2519C\CALS2.D Vial: 6
Acq On : 26 Oct 2019 1:48 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.050/0.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:11:40 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:41 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	29111	0.0476 mg/kg	98
40)	111trichlota	6.84	97	23814	0.0455 mg/kg	92
42)	Cyclohexane	6.90	56	30276	0.0457 mg/kg	90
43)	Carbtetraclo	7.05	119	22435	0.0510 mg/kg	99
44)	11dicloprope	7.07	110	8303m	0.0514 mg/kg#	77
46)	Benzene	7.31	78	69286	0.0501 mg/kg#	1
47)	12dichlorota	7.34	62	23823	0.0478 mg/kg	93
48)	TAME	7.47	73	48645	0.0511 mg/kg	99
49)	trichloroete	8.13	95	13893	0.0408 mg/kg	82
50)	methylcyclohexane	8.36	83	34845	0.0510 mg/kg	98
51)	12dicloropra	8.39	63	18560	0.0438 mg/kg	96
52)	23dicl1propene	8.47	75	21932	0.0438 mg/kg	81
53)	Dibromometha	8.55	93	11582	0.0522 mg/kg	89
54)	methylmethacrylate	8.60	69	7849	0.0341 mg/kg	91
55)	14dioxane	8.62	88	13938	2.4598 mg/kg#	63
56)	Bromodiclrma	8.75	83	19387	0.0448 mg/kg	96
57)	2Nitropropane	9.03	43	56691	0.4137 mg/kg	97
58)	2CLEVE	9.15	63	55404	0.2087 mg/kg	97
59)	c13dicloproe	9.33	75	25885	0.0453 mg/kg	96
60)	4Meth2Pentan	9.52	43	240646	0.5221 mg/kg	98
62)	Toluene	9.76	92	45538	0.0496 mg/kg	99
63)	t13Dicloprop	10.05	75	20841	0.0428 mg/kg#	55
64)	ethylmethacrylate	10.18	69	42870	0.0864 mg/kg	97
65)	112Triclotha	10.29	83	13578	0.0490 mg/kg	82
66)	Tetrachlorte	10.48	166	20753	0.0546 mg/kg	89
67)	13Diclorpropa	10.51	76	25733	0.0469 mg/kg	99
69)	2Hexanone	10.63	43	151030	0.4609 mg/kg	97
70)	Clorodibrmta	10.81	129	16165	0.0492 mg/kg	96
71)	12Dibrometha	10.96	107	15923	0.0467 mg/kg	90
72)	Chlorobenzen	11.63	112	47768	0.0498 mg/kg#	78
73)	1Clhexane	11.60	91	24840	0.0518 mg/kg#	65
74)	1112Tetclota	11.74	131	16065	0.0485 mg/kg	87
75)	Ethylbenzene	11.78	91	80134	0.0484 mg/kg	99
76)	m p-Xylene	11.94	106	55797	0.0891 mg/kg	87
77)	o-Xylene	12.50	106	31655	0.0494 mg/kg	99
78)	Styrene	12.53	104	47077	0.0469 mg/kg	96
79)	Bromoform	12.78	173	11082	0.0494 mg/kg	96
80)	Isopropylben	13.01	105	82296	0.0497 mg/kg	98
82)	cyclohexanone	13.14	55	28483	1.1355 mg/kg	94
84)	Bromobenzene	13.44	156	19440	0.0484 mg/kg	95
85)	1122Tetrclta	13.43	83	26444	0.0532 mg/kg	97
86)	123Triclproa	13.49	75	25343	0.0419 mg/kg	93
87)	14dichloro2butene	13.54	53	6219	0.0406 mg/kg#	51
88)	n-Propylbenz	13.60	91	90554	0.0484 mg/kg	96
89)	2chlorotolue	13.72	91	57663	0.0513 mg/kg	96
90)	4chlorotolue	13.88	91	60830	0.0485 mg/kg	99
91)	135Trimebenz	13.86	105	67579	0.0491 mg/kg	99
92)	tbutylbenzen	14.33	119	60322	0.0506 mg/kg	98
93)	124Trimetben	14.39	105	64546	0.0478 mg/kg	98
94)	sbutylbenzen	14.64	105	87013	0.0502 mg/kg	97
95)	13Diclorbenz	14.81	146	35170	0.0467 mg/kg	96
96)	pIsopropylto	14.86	119	69721	0.0485 mg/kg	97
97)	14dichlorobe	14.92	146	40411	0.0535 mg/kg	87
98)	12dichlorobe	15.46	146	37631	0.0529 mg/kg	90
99)	nButylbenzen	15.46	91	64190	0.0488 mg/kg	97
100)	12dibromo3cl	16.58	157	6353	0.0577 mg/kg	87
101)	135Trichlorobenzene	16.89	180	24114	0.0495 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT2519C\CALS2.D Vial: 6
Acq On : 26 Oct 2019 1:48 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.050/0.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:11:40 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:41 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.71	180	21728	0.0483	mg/kg	99
103)	Hexachlorobu	17.93	225	12280	0.0542	mg/kg	85
104)	Naphthalene	18.03	128	63391	0.0523	mg/kg	97
105)	123Trichlben	18.32	180	19668	0.0475	mg/kg	97

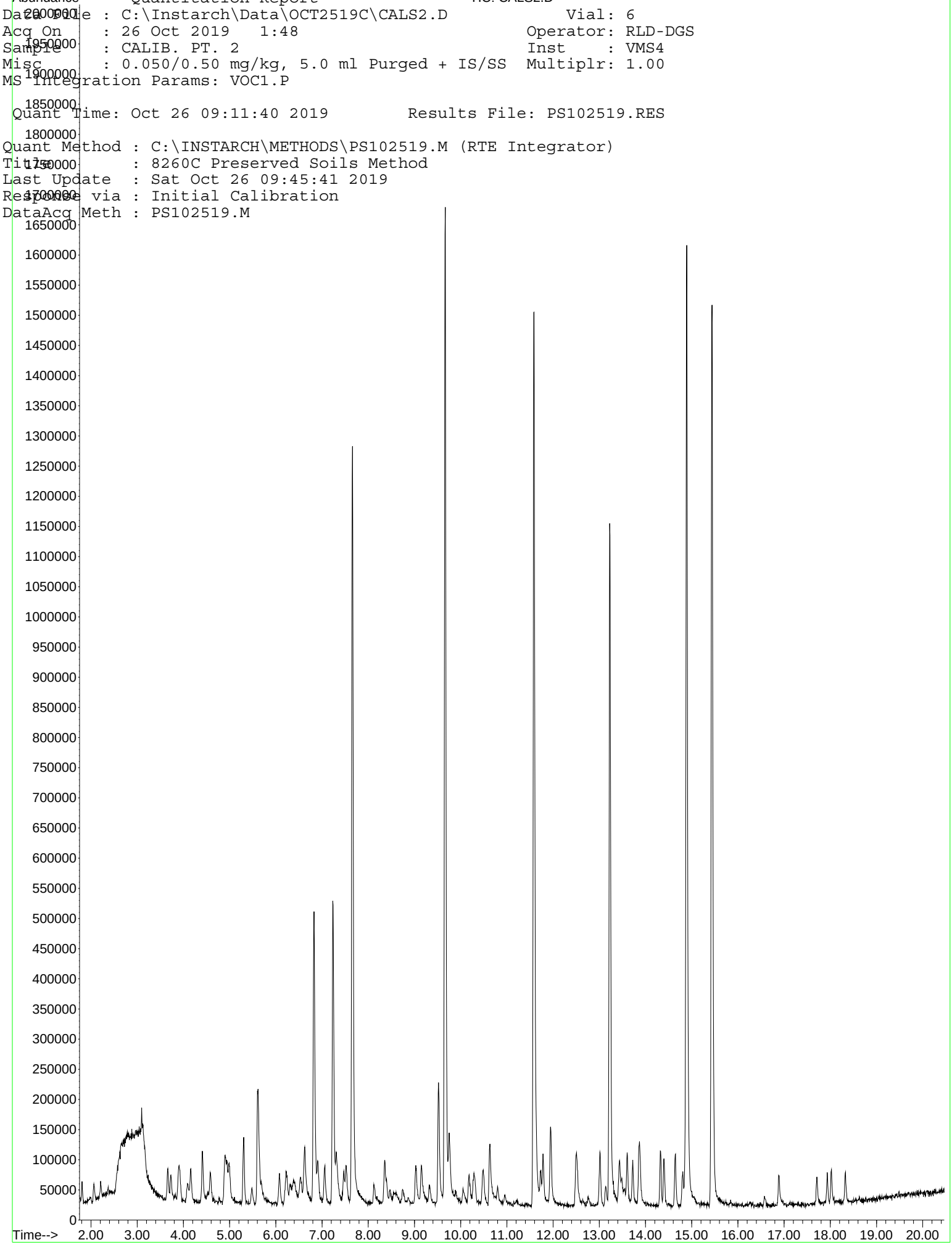
(#) = qualifier out of range (m) = manual integration

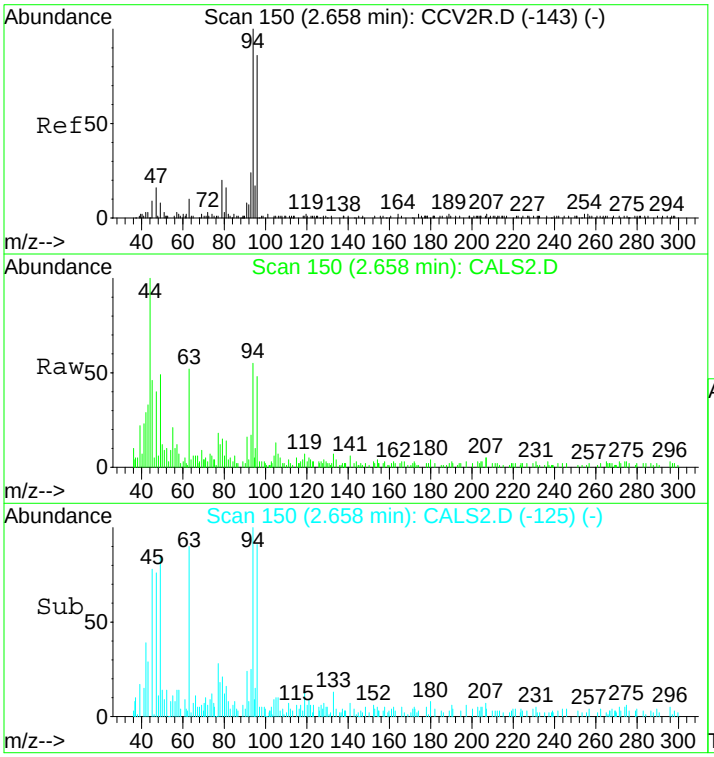
Abundance Quantitation Report TIC: CALS2.D

Data File : C:\Instarch\Data\OCT2519C\CALS2.D Vial: 6
Acq On : 26 Oct 2019 1:48 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.050/0.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:11:40 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:41 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

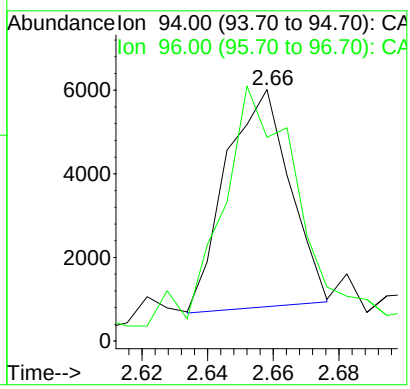




#5
Bromomethane
Concen: 0.05 mg/kg m
RT: 2.66 min Scan# 150
Delta R.T. -0.00 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

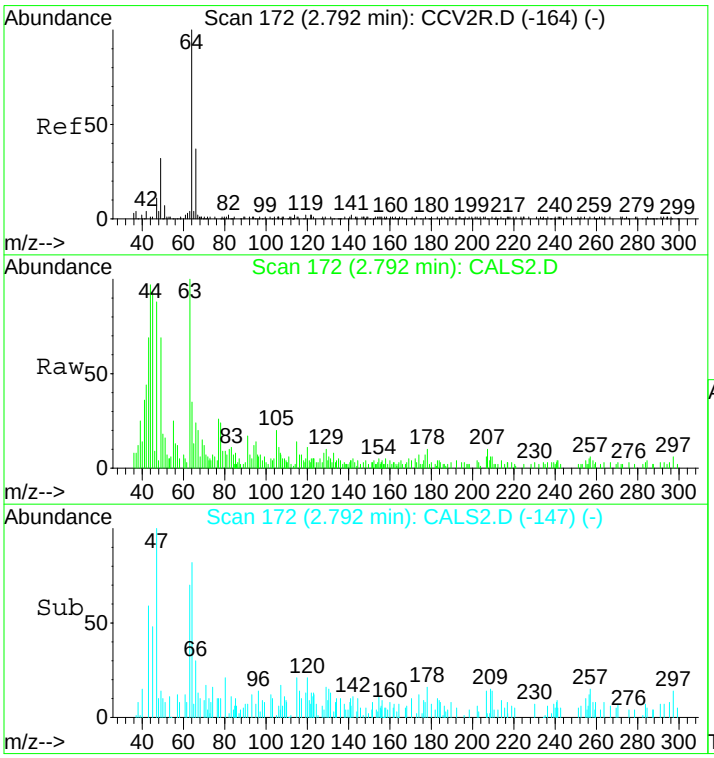
Tgt Ion: 94 Resp: 7074

Ion	Ratio	Lower	Upper
94	100		
96	140.7	72.1	112.1#



After Manual Integration

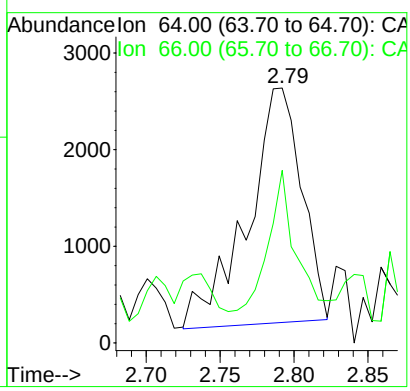
11/20/2019



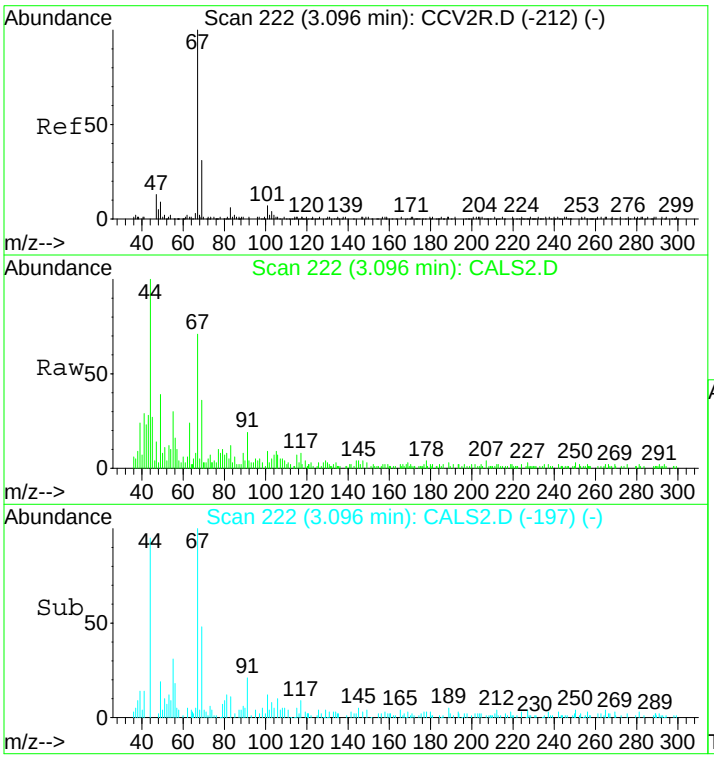
#6
Chloroethane
Concen: 0.06 mg/kg m
RT: 2.79 min Scan# 172
Delta R.T. -0.00 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 64 Resp: 6223

Ion	Ratio	Lower	Upper
64	100		
66	28.9	17.6	57.6



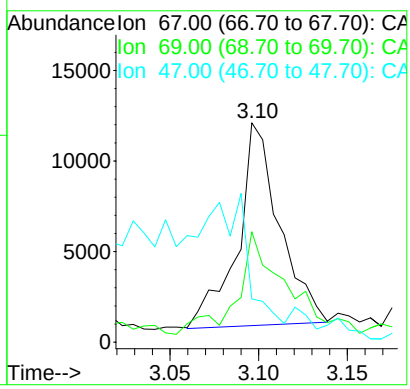
DGS 11/20/2019

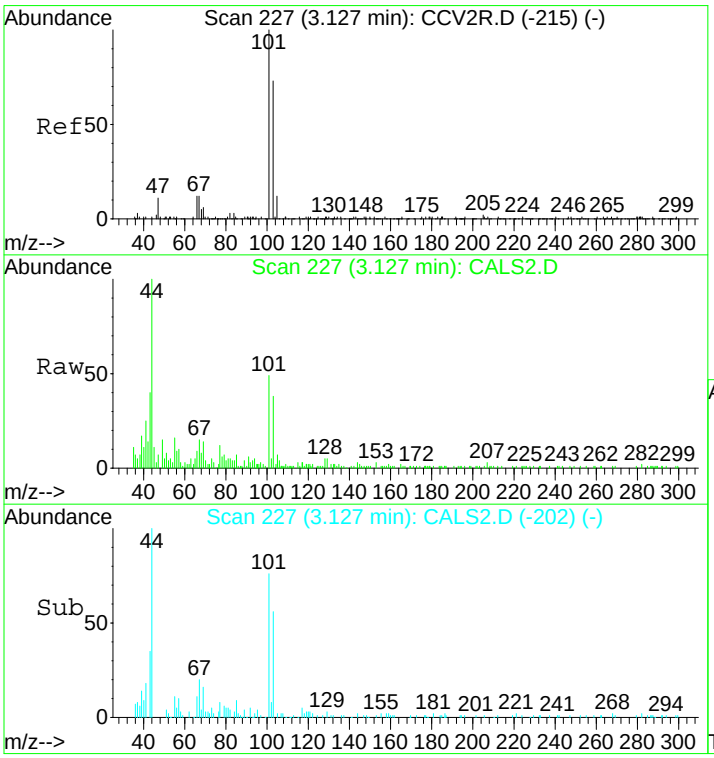


#7
dichloroflmethane
Concen: 0.07 mg/kg m
RT: 3.10 min Scan# 222
Delta R.T. -0.00 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 67 Resp: 18502

Ion	Ratio	Lower	Upper
67	100		
69	59.4	15.6	55.6#
47	260.8	18.9	58.9#

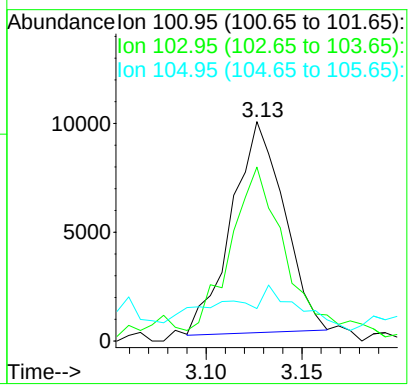




#8
Trichlorofma
Concen: 0.05 mg/kg m
RT: 3.13 min Scan# 227
Delta R.T. -0.00 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion:101 Resp: 18543

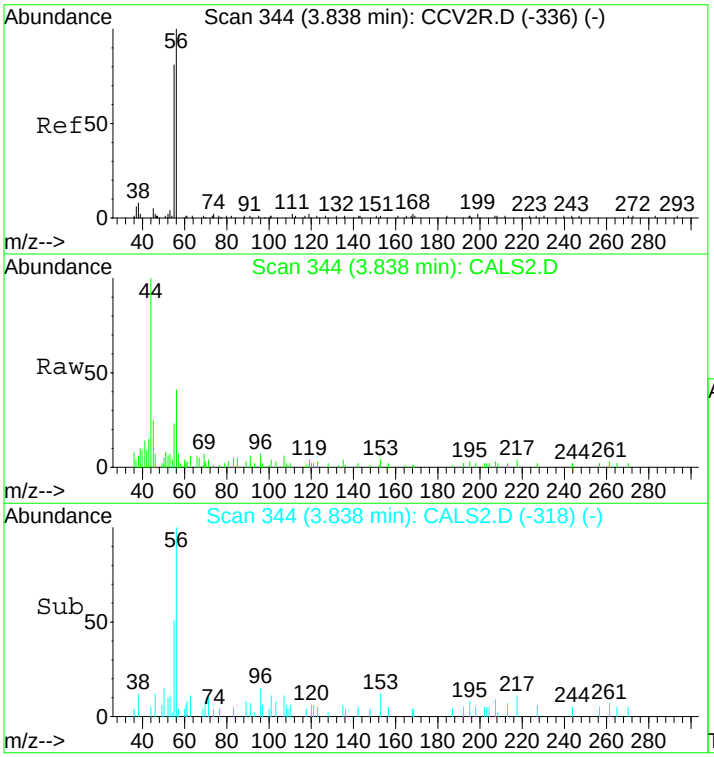
Ion	Ratio	Lower	Upper
101	100		
103	94.8	42.7	82.7#
105	31.8	0.0	33.0



After Manual Integration

RJ 11/20/2019

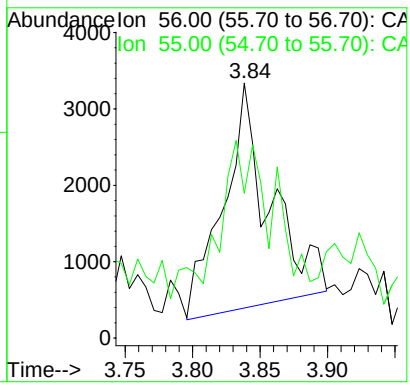
DGS 11/20/2019



#12
Acrolein
Concen: 0.19 mg/kg m
RT: 3.84 min Scan# 344
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

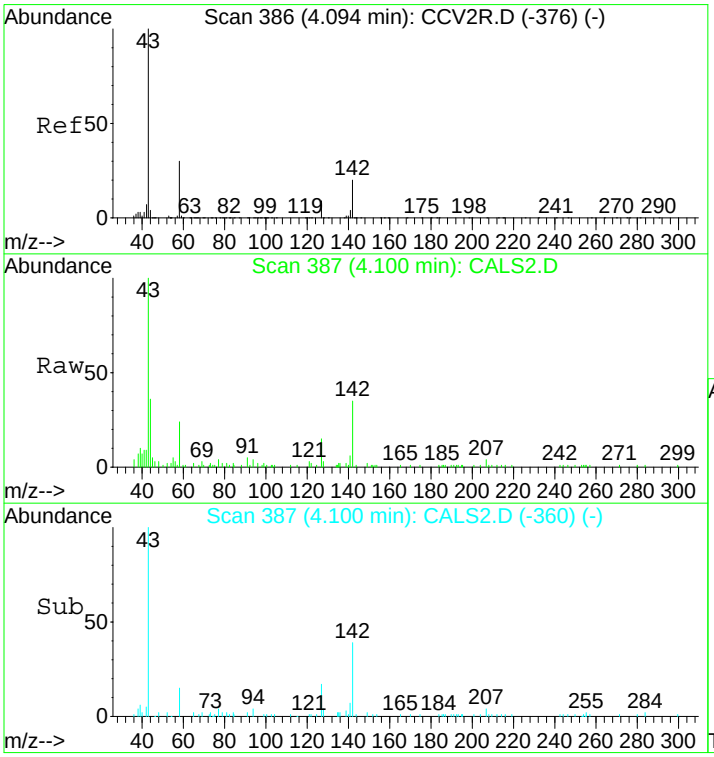
Tgt Ion: 56 Resp: 7113

Ion	Ratio	Lower	Upper
56	100		
55	85.8	47.3	87.3



After Manual Integration

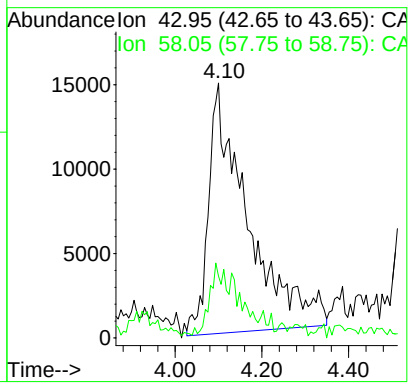
RJ 11/20/2019



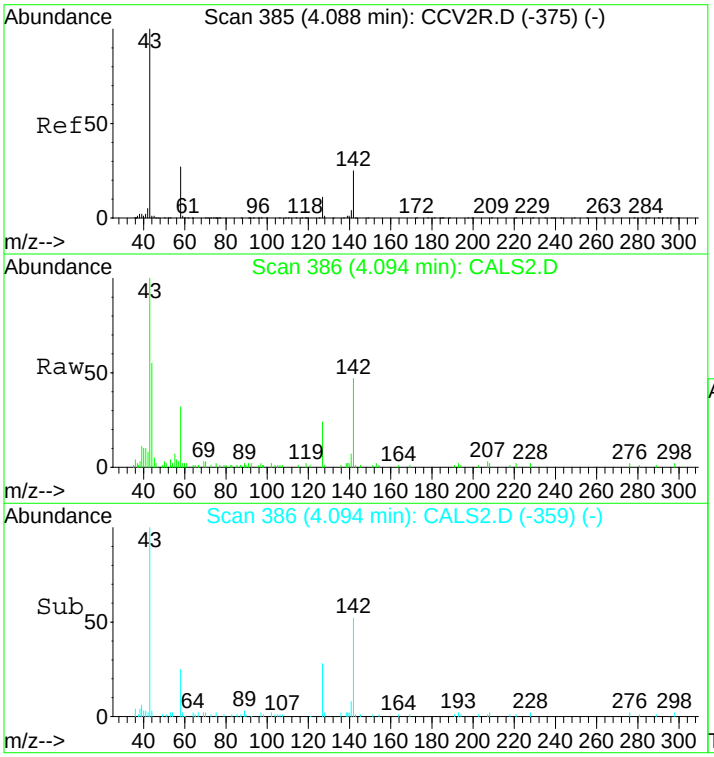
#15
Acetone
Concen: 0.66 mg/kg m
RT: 4.10 min Scan# 387
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 43 Resp: 92906

Ion	Ratio	Lower	Upper
43	100		
58	21.3	7.0	47.0



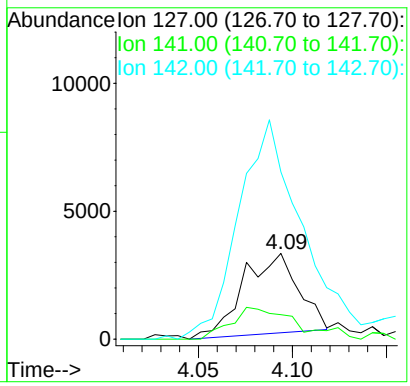
DGS 11/20/2019



#16
Iodomethane
Concen: 0.06 mg/kg m
RT: 4.09 min Scan# 386
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

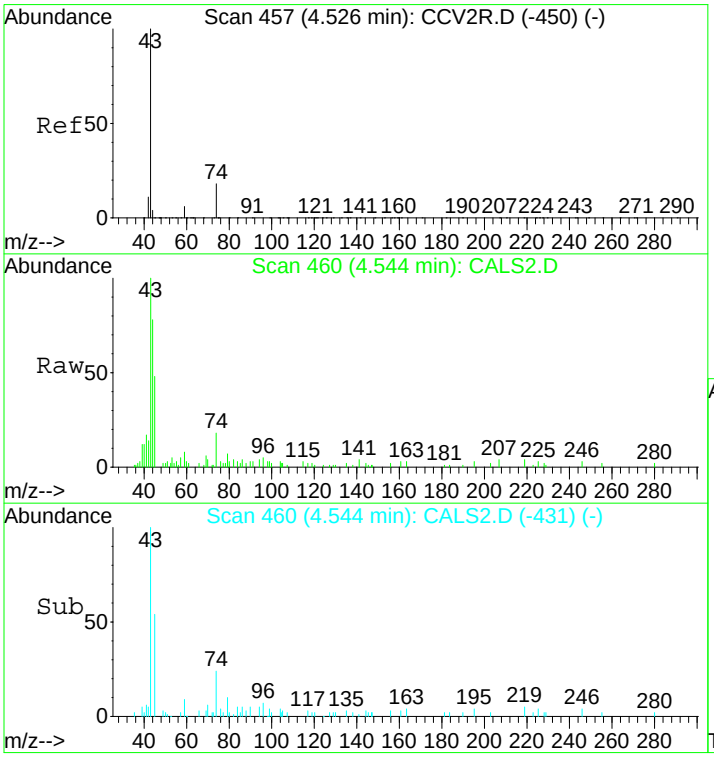
Tgt Ion:127 Resp: 6462

Ion	Ratio	Lower	Upper
127	100		
141	46.9	13.4	53.4
142	334.8	220.0	260.0#



After Manual Integration

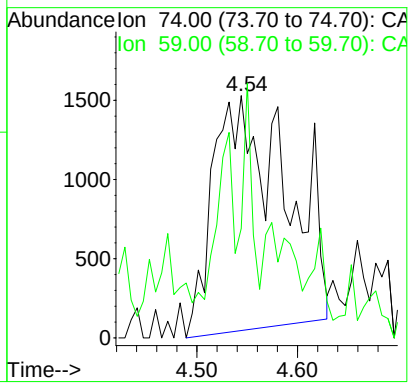
11/20/2019



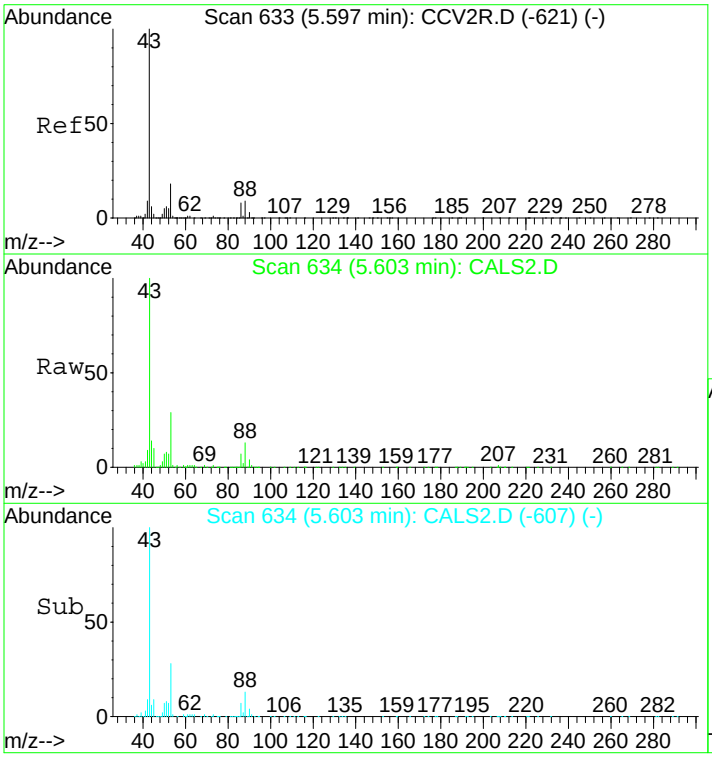
#19
methylacetate
Concen: 0.04 mg/kg m
RT: 4.54 min Scan# 460
Delta R.T. 0.02 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 74 Resp: 7377

Ion	Ratio	Lower	Upper
74	100		
59	27.0	26.0	66.0



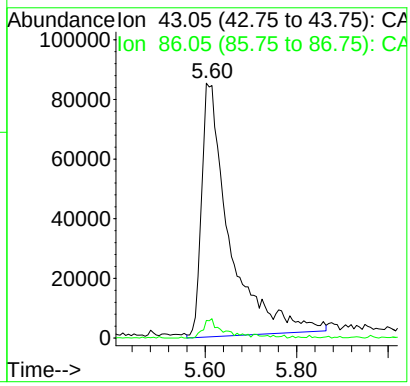
DGS 11/20/2019



#27
Vinylacetate
Concen: 0.56 mg/kg m
RT: 5.60 min Scan# 634
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

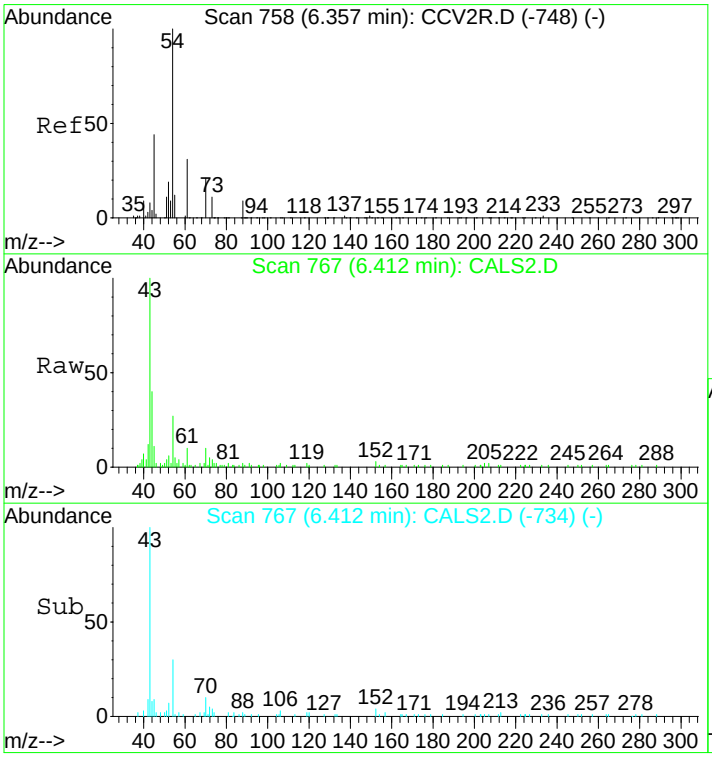
Tgt Ion: 43 Resp: 363465

Ion	Ratio	Lower	Upper
43	100		
86	5.2	0.0	26.5



After Manual Integration

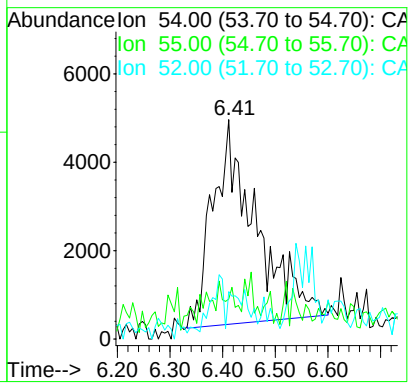
11/20/2019



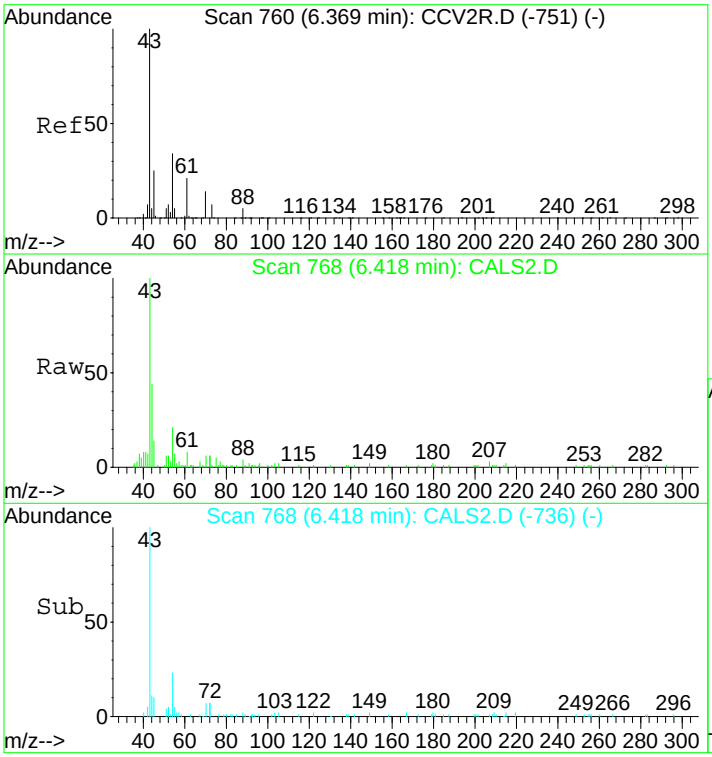
#34
propionitrile
Concen: 0.37 mg/kg m
RT: 6.41 min Scan# 767
Delta R.T. 0.05 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 54 Resp: 26160

Ion	Ratio	Lower	Upper
54	100		
55	4.2	0.0	35.9
52	7.6	0.0	39.1



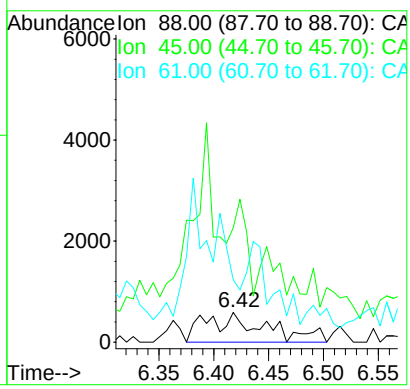
DGS 11/20/2019



#35
Ethylacetate
Concen: 0.18 mg/kg m
RT: 6.42 min Scan# 768
Delta R.T. 0.04 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

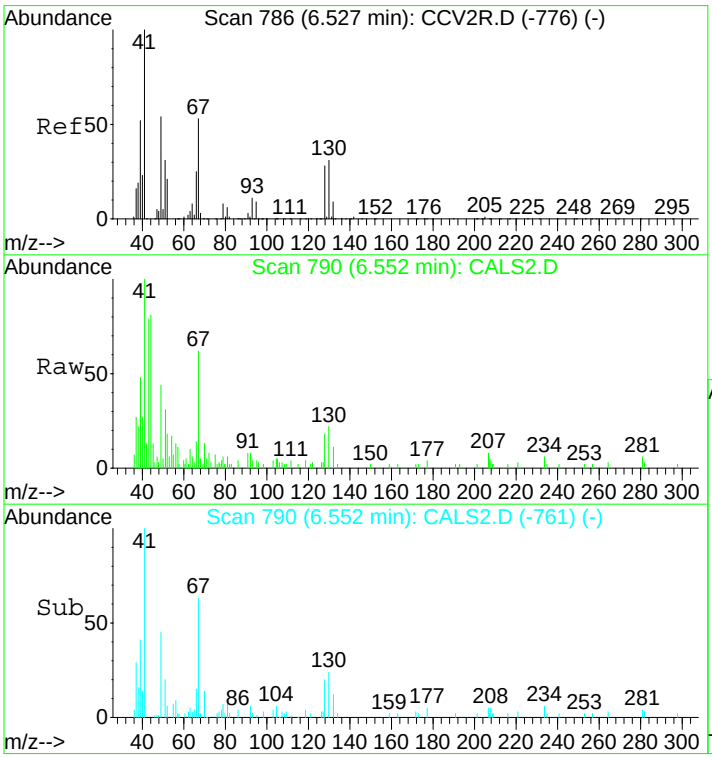
Tgt Ion: 88 Resp: 2225

Ion	Ratio	Lower	Upper
88	100		
45	93.4	409.6	449.6#
61	79.7	367.7	407.7#



After Manual Integration

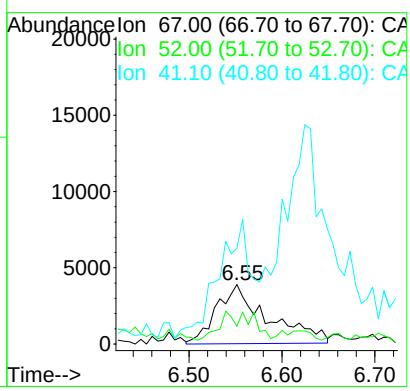
RJ 11/20/2019



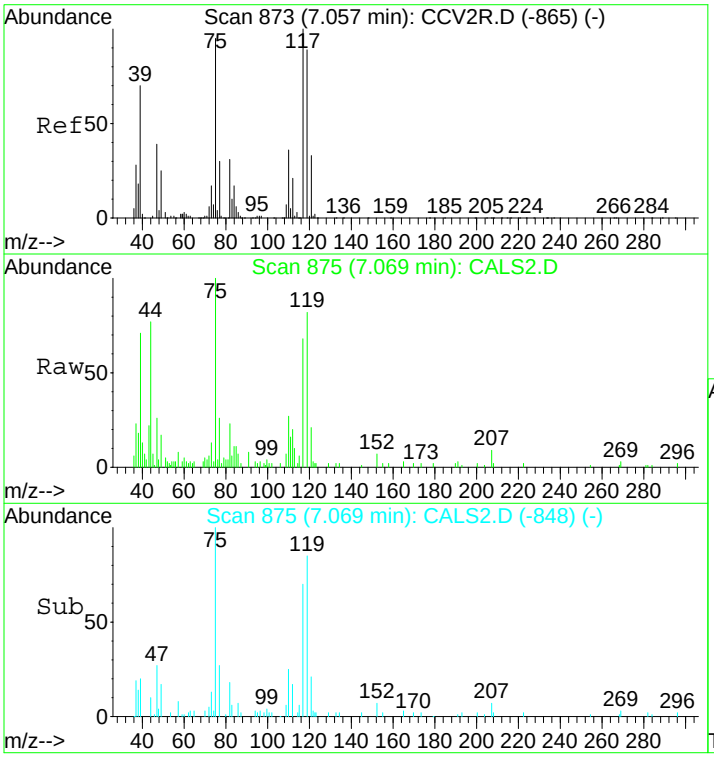
#36
methacrylonitrile
Concen: 0.09 mg/kg m
RT: 6.55 min Scan# 790
Delta R.T. 0.02 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 67 Resp: 14878

Ion	Ratio	Lower	Upper
67	100		
52	30.8	22.6	62.6
41	153.0	148.5	188.5



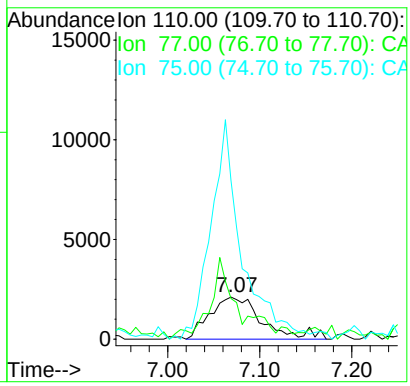
DGS 11/20/2019



#44
11dicloprope
Concen: 0.05 mg/kg m
RT: 7.07 min Scan# 875
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion:110 Resp: 8303

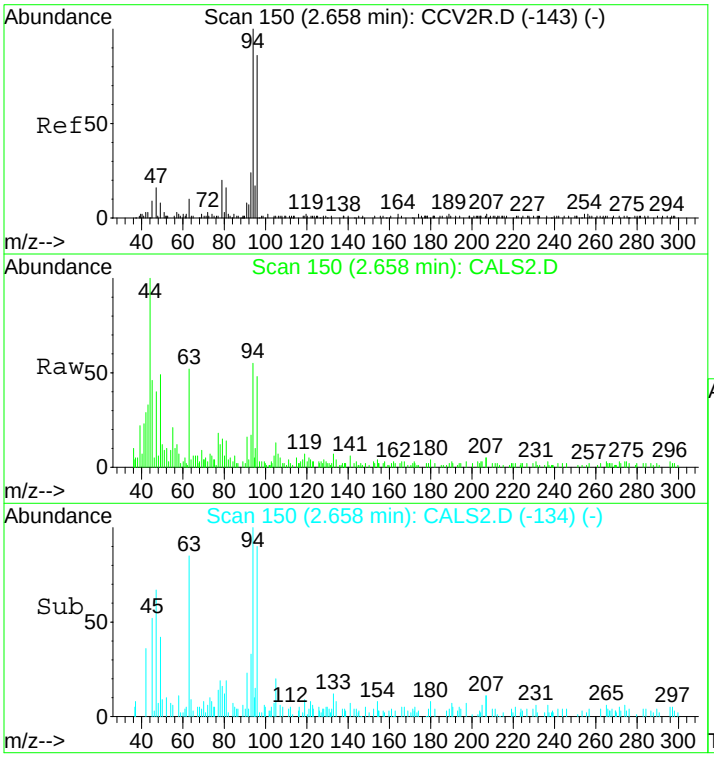
Ion	Ratio	Lower	Upper
110	100		
77	114.0	69.5	109.5#
75	314.6	274.6	314.6



After Manual Integration

11/20/2019

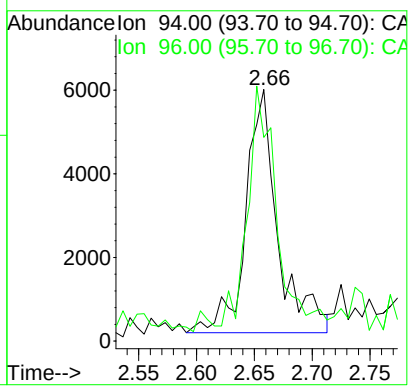
11/20/2019



#5
Bromomethane
Concen: 0.05 mg/kg
RT: 2.66 min Scan# 150
Delta R.T. 0.00 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 94 Resp: 11277

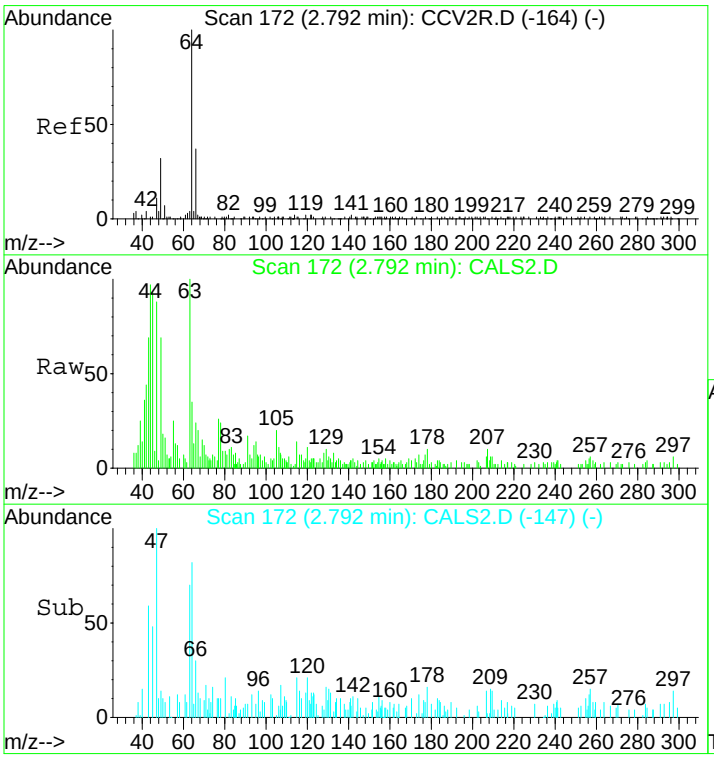
Ion	Ratio	Lower	Upper
94	100		
96	86.5	72.1	112.1



Before Manual Integration

11/20/2019

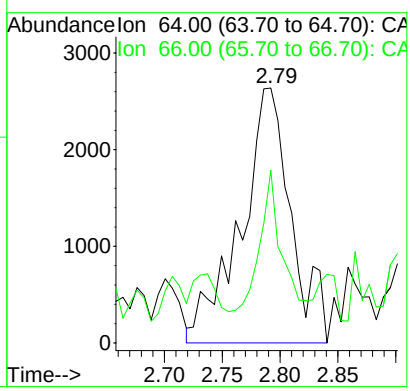
REASON # 2



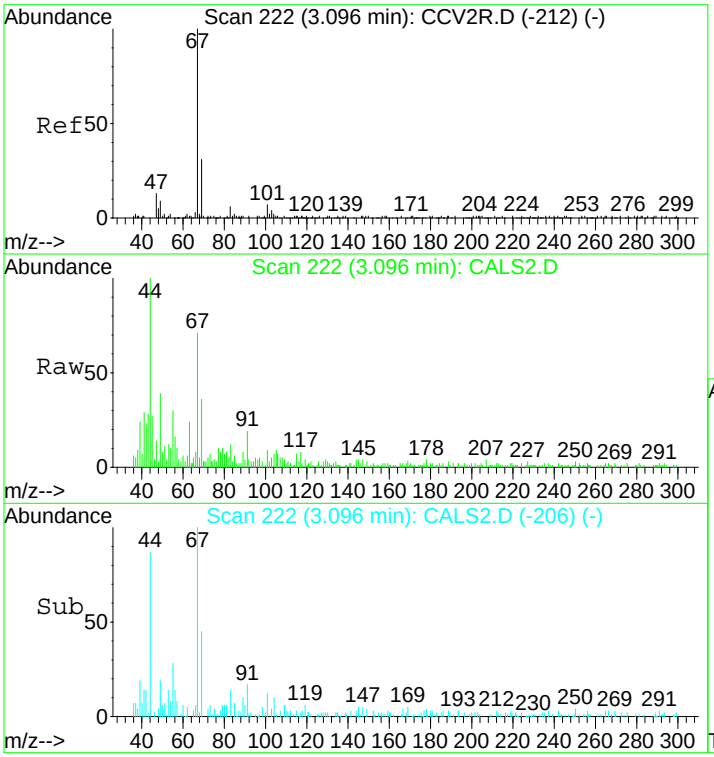
#6
Chloroethane
Concen: 0.08 mg/kg
RT: 2.79 min Scan# 172
Delta R.T. 0.00 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 64 Resp: 7979

Ion	Ratio	Lower	Upper
64	100		
66	22.6	17.6	57.6



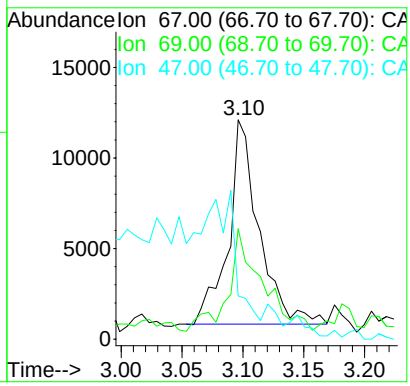
REASON # 2



#7
dichloroflmethane
Concen: 0.07 mg/kg
RT: 3.10 min Scan# 222
Delta R.T. 0.00 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 67 Resp: 19776

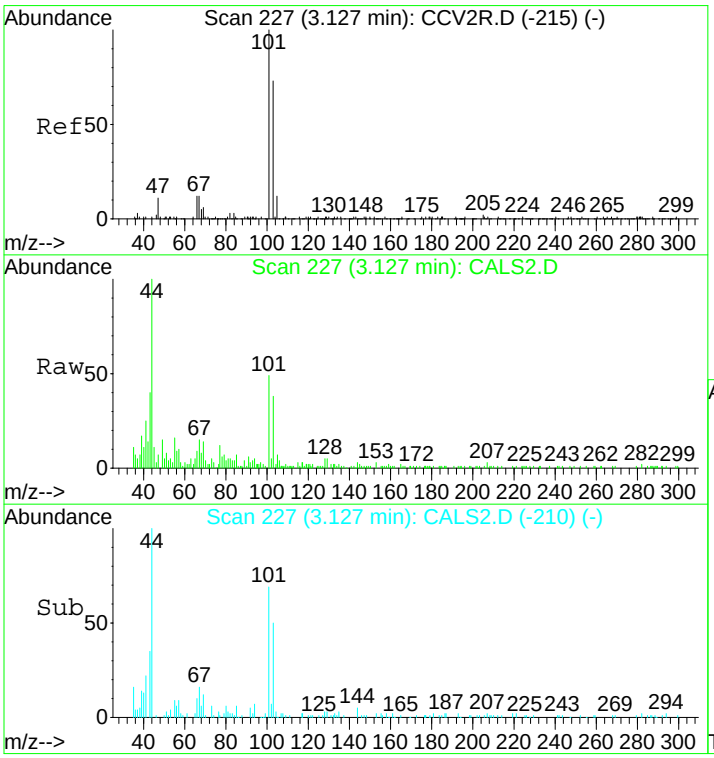
Ion	Ratio	Lower	Upper
67	100		
69	55.6	15.6	55.6
47	150.5	18.9	58.9#



Before Manual Integration

11/20/2019

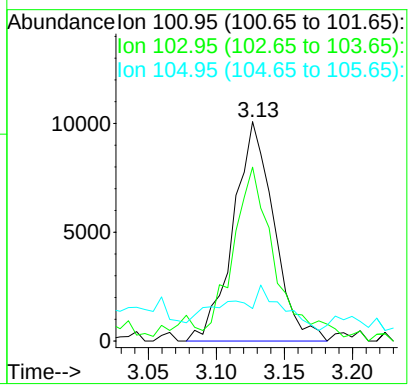
REASON # 2



#8
Trichlorofma
Concen: 0.06 mg/kg
RT: 3.13 min Scan# 227
Delta R.T. 0.00 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion:101 Resp: 20963

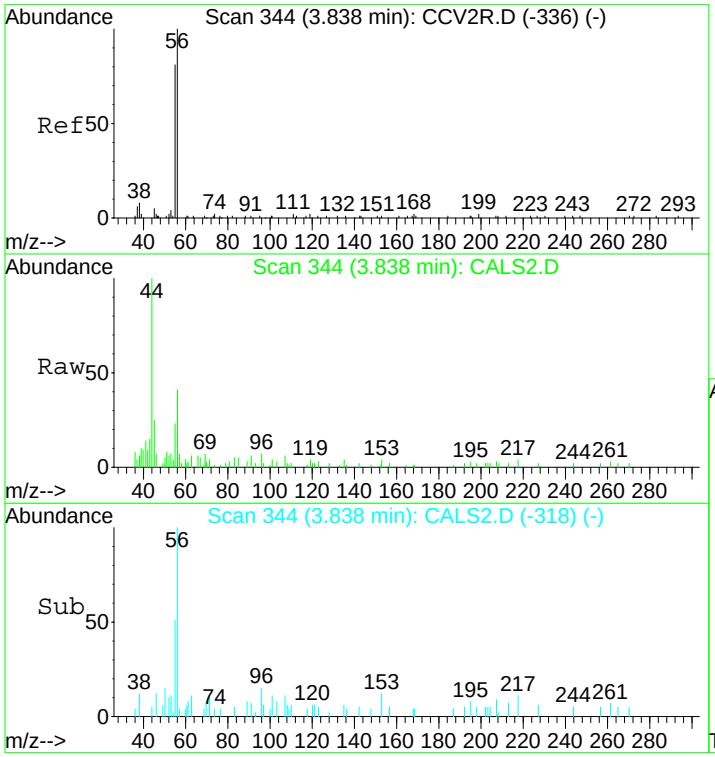
Ion	Ratio	Lower	Upper
101	100		
103	76.9	42.7	82.7
105	28.1	0.0	33.0



REASON # 2

Before Manual Integration

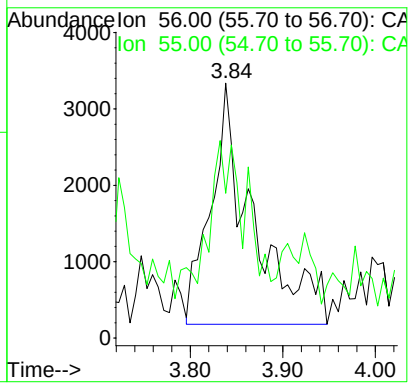
11/20/2019



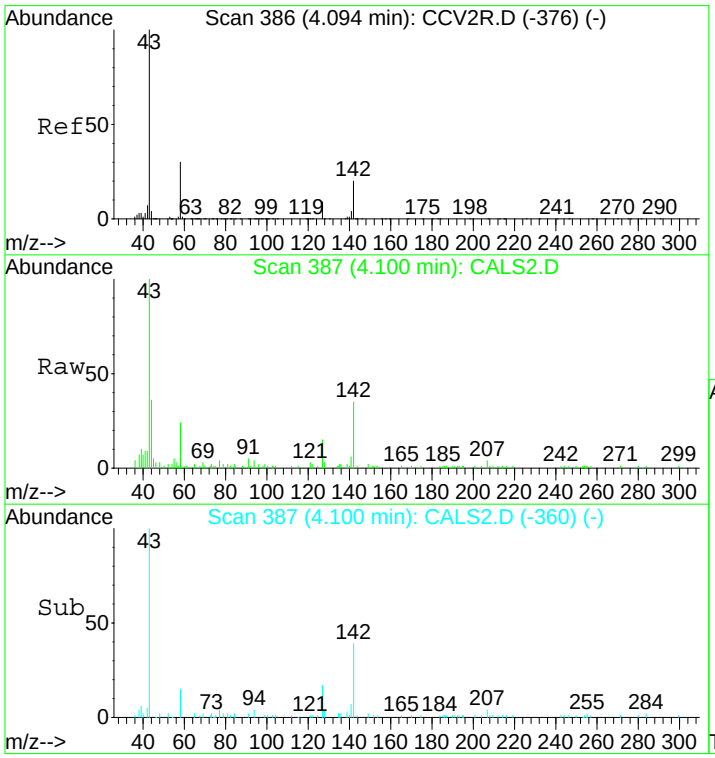
#12
Acrolein
Concen: 0.30 mg/kg
RT: 3.84 min Scan# 344
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 56 Resp: 10045

Ion	Ratio	Lower	Upper
56	100		
55	60.8	47.3	87.3



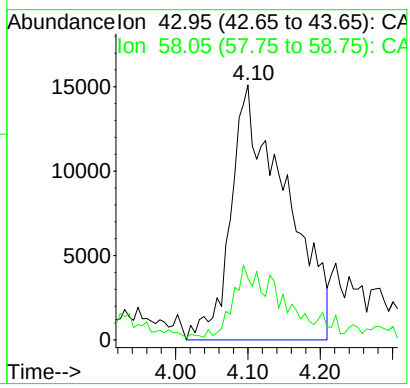
REASON # 2



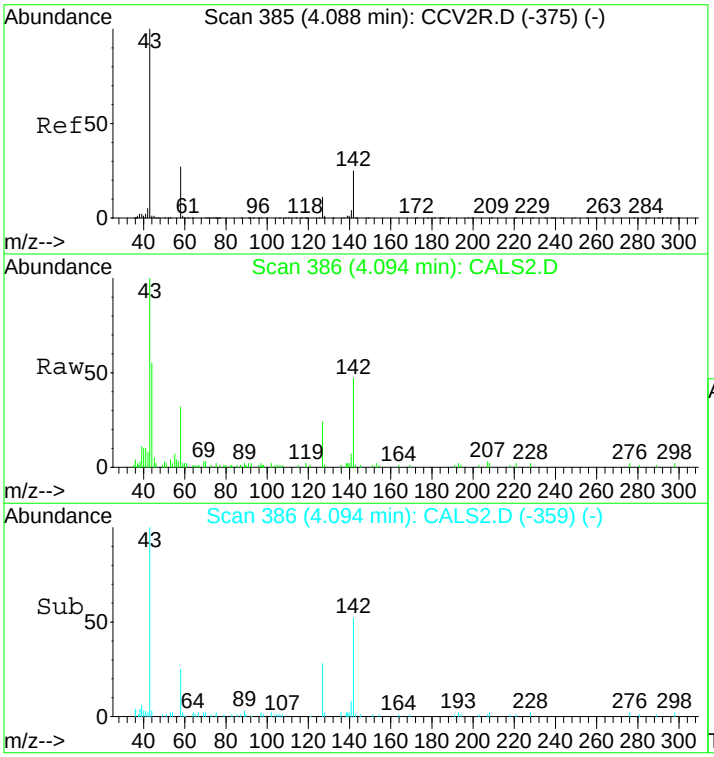
#15
Acetone
Concen: 0.49 mg/kg
RT: 4.10 min Scan# 387
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 43 Resp: 79911

Ion	Ratio	Lower	Upper
43	100		
58	24.7	7.0	47.0



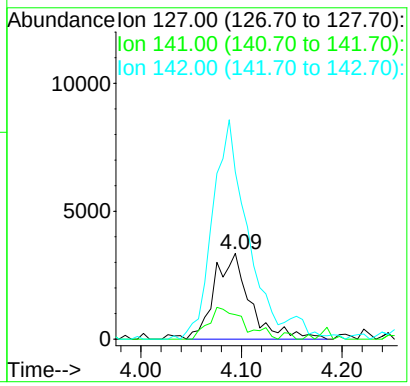
REASON # 2



#16
Iodomethane
Concen: 0.20 mg/kg
RT: 4.09 min Scan# 386
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion:127 Resp: 8276

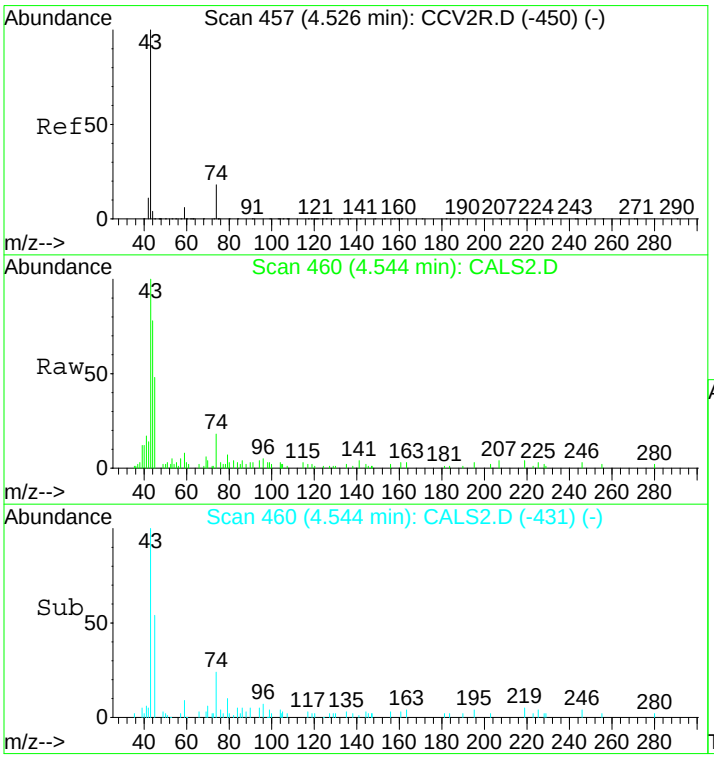
Ion	Ratio	Lower	Upper
127	100		
141	36.6	13.4	53.4
142	261.4	220.0	260.0#



Before Manual Integration

11/20/2019

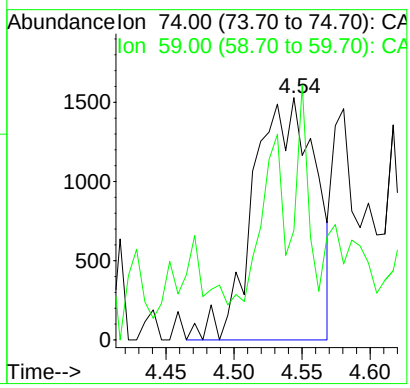
REASON # 2



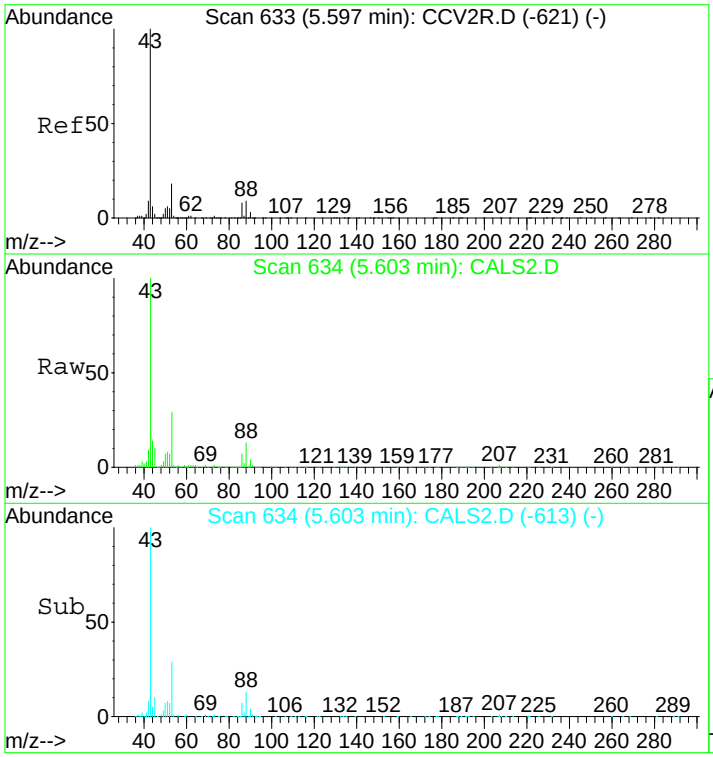
#19
methylacetate
Concen: 0.03 mg/kg
RT: 4.54 min Scan# 460
Delta R.T. 0.02 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 74 Resp: 4838

Ion	Ratio	Lower	Upper
74	100		
59	41.2	26.0	66.0



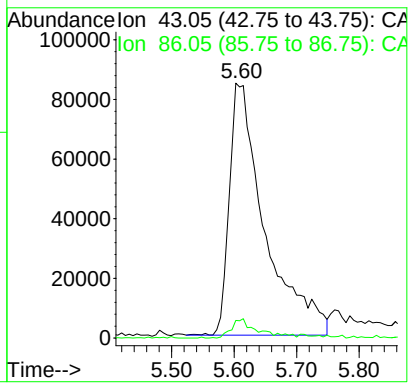
REASON # 2



#27
Vinylacetate
Concen: 0.49 mg/kg
RT: 5.60 min Scan# 634
Delta R.T. -0.02 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 43 Resp: 333778

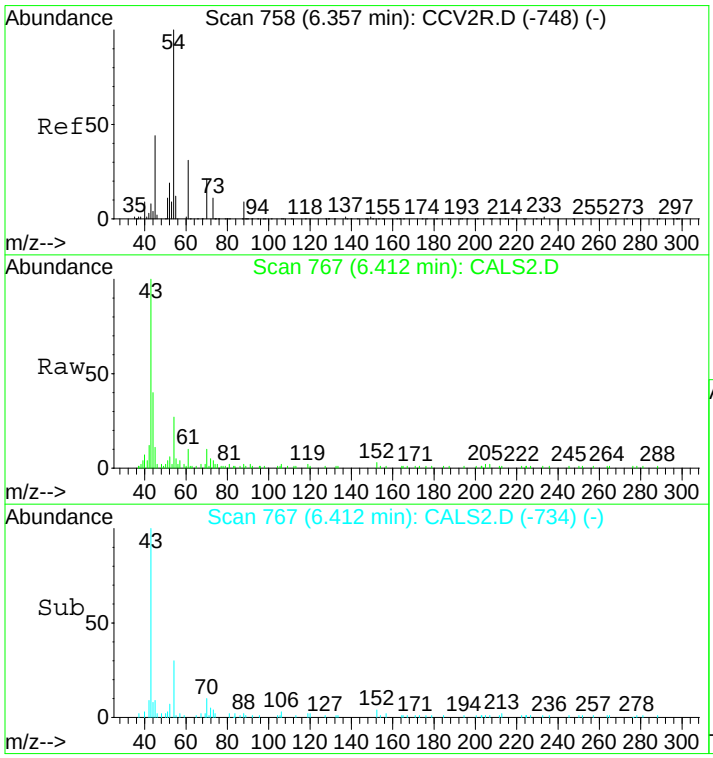
Ion	Ratio	Lower	Upper
43	100		
86	5.7	0.0	26.5



Before Manual Integration

11/20/2019

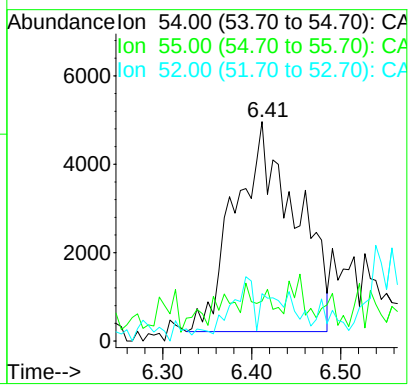
REASON # 2



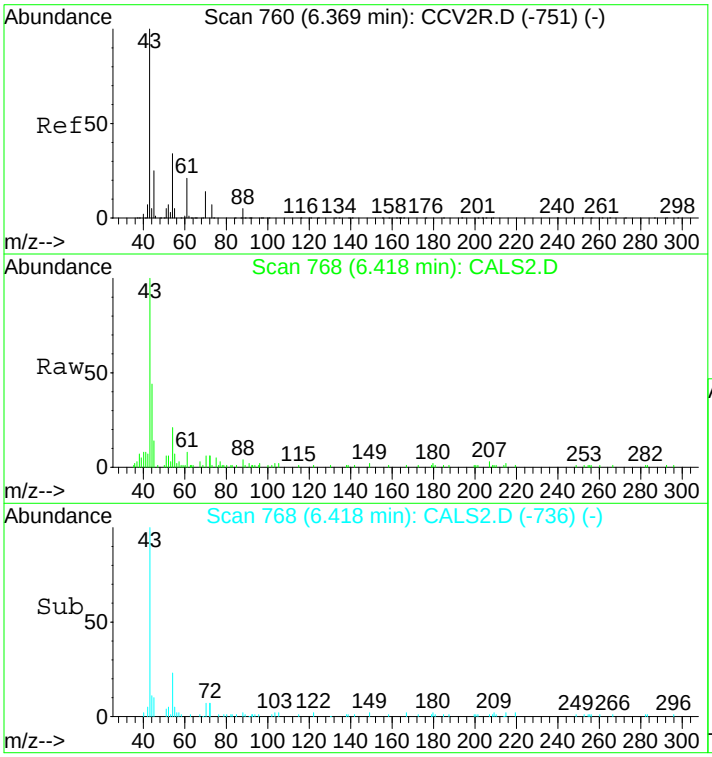
#34
propionitrile
Concen: 0.69 mg/kg
RT: 6.41 min Scan# 767
Delta R.T. 0.05 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 54 Resp: 22393

Ion	Ratio	Lower	Upper
54	100		
55	4.9	0.0	35.9
52	8.9	0.0	39.1



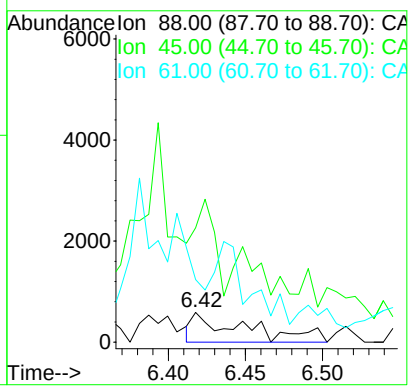
REASON # 2



#35
Ethylacetate
Concen: 0.25 mg/kg
RT: 6.42 min Scan# 768
Delta R.T. 0.04 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 88 Resp: 1384

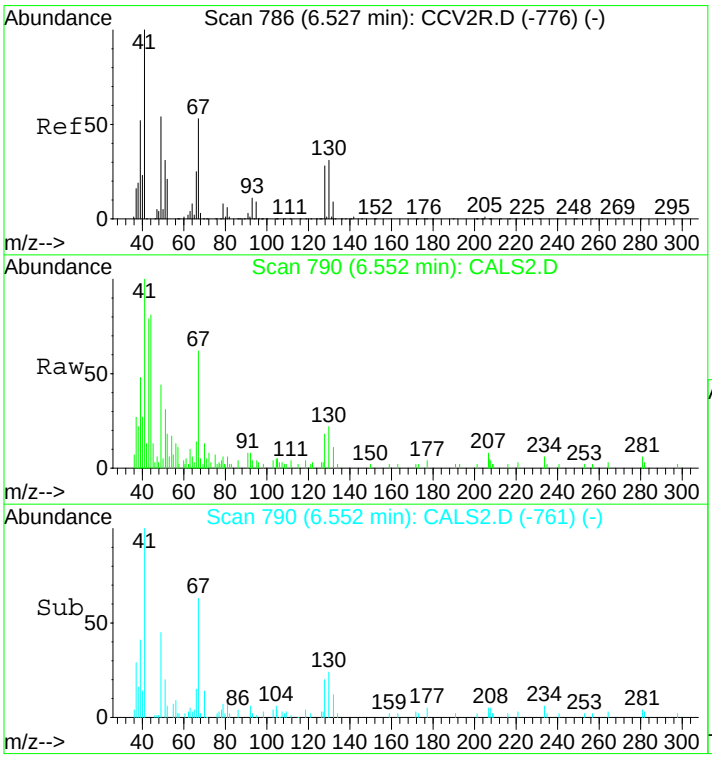
Ion	Ratio	Lower	Upper
88	100		
45	150.1	409.6	449.6#
61	128.2	367.7	407.7#



Before Manual Integration

11/20/2019

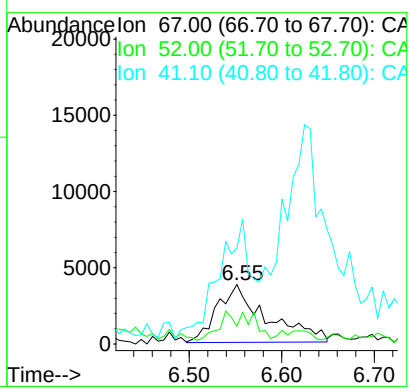
REASON # 2



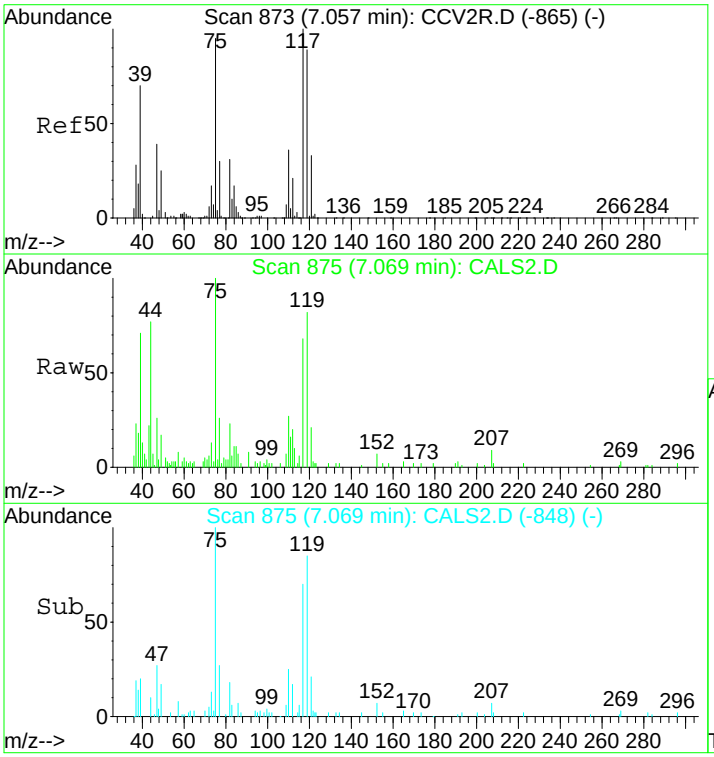
#36
methacrylonitrile
Concen: 0.08 mg/kg
RT: 6.55 min Scan# 790
Delta R.T. 0.02 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion: 67 Resp: 14089

Ion	Ratio	Lower	Upper
67	100		
52	32.5	22.6	62.6
41	161.6	148.5	188.5



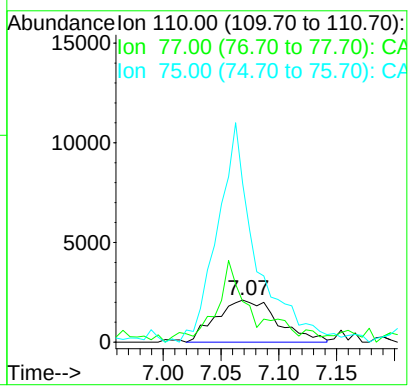
REASON # 2



#44
11dicloprope
Concen: 0.05 mg/kg
RT: 7.07 min Scan# 875
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 26 Oct 2019 1:48

Tgt Ion:110 Resp: 7817

Ion	Ratio	Lower	Upper
110	100		
77	121.1	69.5	109.5#
75	334.1	274.6	314.6#



Before Manual Integration

11/20/2019

REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS3.D Vial: 7
Acq On : 26 Oct 2019 2:16 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:12:03 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:43:56 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1345517	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	1097549	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	568990	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	352765	1.001	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	88575	1.049	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105 %			
61) SURRd8Tolule	9.67	98	1378035	1.005	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	558811	1.031	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	46983	0.0995	mg/kg	100
3) Chloromethan	2.06	50	69460	0.0935	mg/kg	99
4) VinylChlorid	2.21	62	48357	0.0973	mg/kg	99
5) Bromomethane	2.66	94	12068m	0.0660	mg/kg#	92
6) Chloroethane	2.80	64	11053	0.0896	mg/kg	95
7) dichloroflmethane	3.09	67	24063	0.0858	mg/kg#	1
8) Trichlorofma	3.13	101	36546	0.1082	mg/kg	94
9) Ethylether	3.67	59	31450	0.0909	mg/kg	93
10) dichlorotfluoroethan	3.67	67	40946	0.1045	mg/kg	95
11) propyleneoxide	3.73	58	92453	1.0892	mg/kg	98
12) Acrolein	3.83	56	16241	0.3926	mg/kg	85
13) 11dichlorthe	3.89	96	31119	0.0931	mg/kg	99
14) Trichlorotfluoroeth	3.91	101	54489	0.2000	mg/kg	97
15) Acetone	4.11	43	132598	1.2996	mg/kg	97
16) Iodomethane	4.09	127	13471	0.1319	mg/kg	96
17) Carbon Dislf	4.16	76	159553	0.2024	mg/kg	99
18) allylchloride	4.41	41	155180	0.2035	mg/kg	97
19) methylacetate	4.54	74	15551	0.1289	mg/kg	99
20) Methylchlorid	4.59	84	41031	0.0855	mg/kg	99
21) Acrylonitrile	4.98	53	64196	0.5039	mg/kg	92
22) t12dichlorte	4.95	96	34041	0.1023	mg/kg	98
23) tbutylalcohol	4.91	59	347038	5.3471	mg/kg	97
24) MtBE	4.99	73	99660	0.1021	mg/kg#	72
25) Hexane	5.30	57	136590	0.2072	mg/kg	97
26) 11dichlorota	5.49	63	72321	0.1058	mg/kg	98
27) Vinylacetate	5.60	43	689718	1.1126	mg/kg	99
28) chloroprene	5.61	53	120501	0.1964	mg/kg	99
29) Diisopether	5.63	45	137787	0.1035	mg/kg#	90
30) ETBE	6.08	59	112869	0.1060	mg/kg	100
31) 22dichloropr	6.21	77	53668	0.0967	mg/kg	97
32) c12dichlorte	6.23	96	33734	0.0879	mg/kg#	85
33) 2Butanone	6.31	72	43771	1.1146	mg/kg	99
34) propionitrile	6.40	54	56112	1.0139	mg/kg	95
35) Ethylacetate	6.38	88	5612	0.6199	mg/kg#	84
36) methacrylonitrile	6.53	67	33532	0.2491	mg/kg#	86
37) Bromochlorma	6.52	128	15342	0.0936	mg/kg	89
38) Tetrahydofur	6.61	42	157957	1.0543	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS3.D Vial: 7
Acq On : 26 Oct 2019 2:16 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:12:03 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:43:56 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	61300	0.0990 mg/kg	96
40)	111trichlota	6.84	97	51611	0.0992 mg/kg	97
42)	Cyclohexane	6.91	56	65468	0.0973 mg/kg	95
43)	Carbtetraclo	7.05	119	43151	0.0990 mg/kg	98
44)	11dicloprope	7.07	110	15511	0.1010 mg/kg	93
46)	Benzene	7.31	78	142304	0.1047 mg/kg#	74
47)	12dichlorota	7.34	62	49847	0.1037 mg/kg	93
48)	TAME	7.47	73	94270	0.1027 mg/kg	99
49)	trichloroete	8.12	95	34439	0.1127 mg/kg	99
50)	methylcyclohexane	8.36	83	67606	0.0987 mg/kg	98
51)	12dicloropra	8.40	63	43589	0.1123 mg/kg#	95
52)	23dicl1propene	8.46	75	49657	0.1099 mg/kg	97
53)	Dibromometha	8.55	93	21611	0.1015 mg/kg	90
54)	methylmethacrylate	8.58	69	18710m	0.1001 mg/kg	85
55)	14dioxane	8.61	88	25131	4.8787 mg/kg	97
56)	Bromodiclrma	8.75	83	41787	0.1064 mg/kg	96
57)	2Nitropropane	9.03	43	119984	1.0225 mg/kg	93
58)	2CLEVE	9.14	63	118342	0.4992 mg/kg	99
59)	c13dicloproe	9.32	75	55771	0.1090 mg/kg	98
60)	4Meth2Pentan	9.52	43	481567	1.0581 mg/kg	99
62)	Toluene	9.75	92	89544	0.0988 mg/kg	98
63)	t13Dicloprop	10.05	75	44932	0.1086 mg/kg	94
64)	ethylmethacrylate	10.18	69	86537	0.1943 mg/kg	94
65)	112Triclotha	10.28	83	27244	0.1038 mg/kg	97
66)	Tetrachlorte	10.48	166	36013	0.0944 mg/kg	96
67)	13Diclorpropa	10.49	76	52379	0.1019 mg/kg	96
69)	2Hexanone	10.62	43	318293	1.1007 mg/kg	98
70)	Clorodibrmta	10.81	129	29560	0.0958 mg/kg	95
71)	12Dibrometha	10.96	107	33378	0.1048 mg/kg	100
72)	Chlorobenzen	11.63	112	96482	0.1007 mg/kg	91
73)	1Clhexane	11.60	91	47067	0.0941 mg/kg	87
74)	1112Tetclota	11.73	131	30806	0.0978 mg/kg	92
75)	Ethylbenzene	11.78	91	162564	0.0986 mg/kg	100
76)	m p-Xylene	11.94	106	126140	0.2101 mg/kg	99
77)	o-Xylene	12.50	106	61057	0.0956 mg/kg	94
78)	Styrene	12.52	104	89824	0.0953 mg/kg	88
79)	Bromoform	12.78	173	20154	0.0964 mg/kg	96
80)	Isopropylben	13.02	105	168050	0.1024 mg/kg	99
82)	cyclohexanone	13.13	55	50226	2.0178 mg/kg	98
84)	Bromobenzene	13.44	156	38183	0.1002 mg/kg	92
85)	1122Tetrclta	13.43	83	45502	0.0929 mg/kg	96
86)	123Triclproa	13.49	75	50859	0.0956 mg/kg	89
87)	14dichloro2butene	13.52	53	15886	0.1206 mg/kg	79
88)	n-Propylbenz	13.60	91	182615	0.1031 mg/kg	96
89)	2chlorotolue	13.72	91	111419	0.1027 mg/kg	98
90)	4chlorotolue	13.88	91	117494	0.0983 mg/kg	100
91)	135Trimebenz	13.85	105	138916	0.1044 mg/kg	98
92)	tbutylbenzen	14.33	119	118108	0.1013 mg/kg	98
93)	124Trimetben	14.41	105	131873	0.1026 mg/kg	97
94)	sbutylbenzen	14.65	105	171992	0.1010 mg/kg	97
95)	13Diclorbenz	14.80	146	75774	0.1064 mg/kg	97
96)	pIsopropylto	14.86	119	138370	0.0999 mg/kg	98
97)	14dichlorobe	14.93	146	74516	0.1016 mg/kg	94
98)	12dichlorobe	15.47	146	69693	0.0998 mg/kg	92
99)	nButylbenzen	15.46	91	127344	0.1006 mg/kg	97
100)	12dibromo3cl	16.59	157	10229	0.0942 mg/kg	84
101)	135Trichlorobenzene	16.88	180	46085	0.1020 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS3.D Vial: 7
Acq On : 26 Oct 2019 2:16 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:12:03 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:43:56 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.70	180	41196	0.0974	mg/kg	96
103)	Hexachlorobu	17.93	225	21521	0.0954	mg/kg	90
104)	Naphthalene	18.03	128	111189	0.0963	mg/kg	98
105)	123Trichlben	18.32	180	38101	0.0991	mg/kg	95

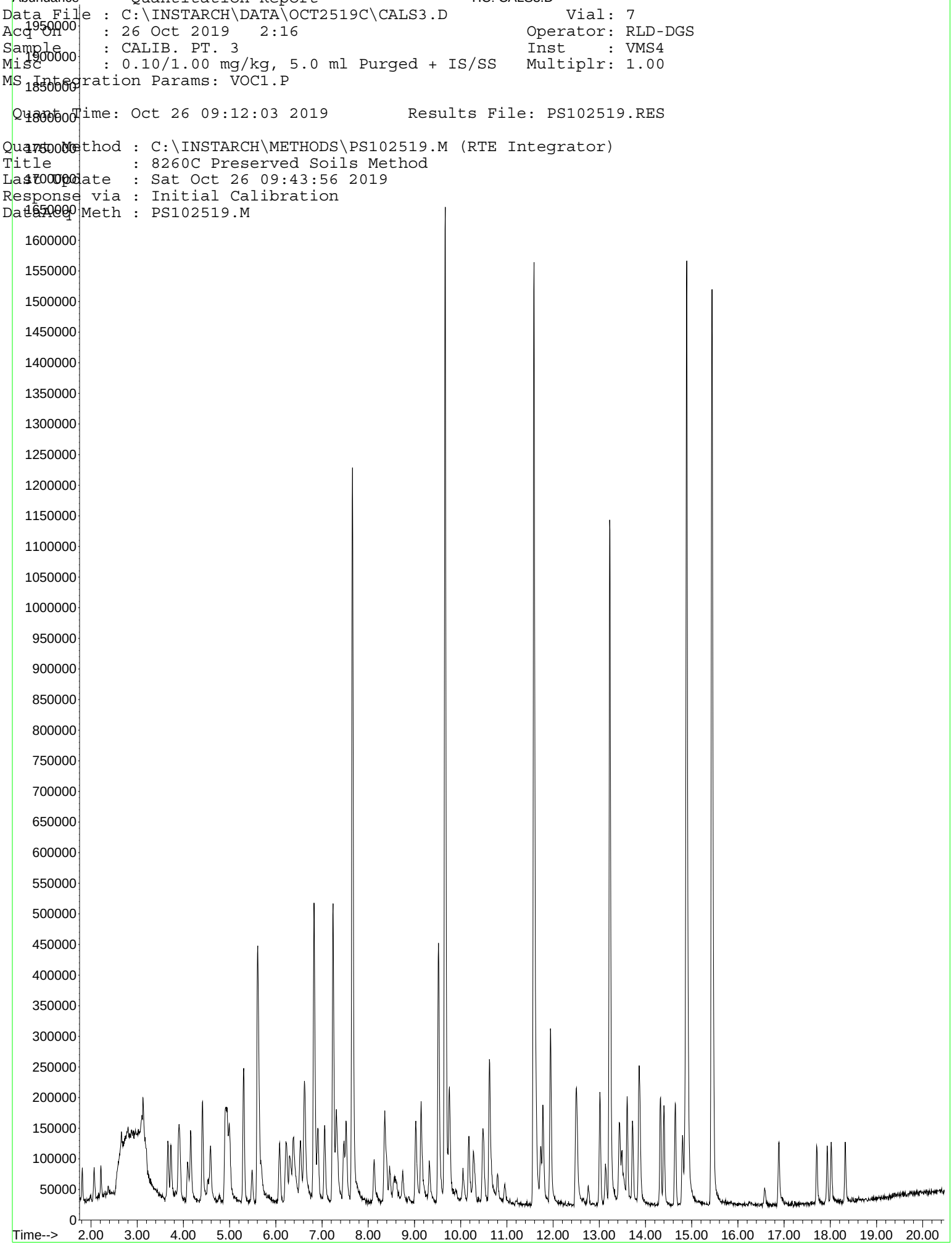
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALS3.D

Data File : C:\INSTARCH\DATA\OCT2519C\CALS3.D Vial: 7
Acq On : 26 Oct 2019 2:16 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

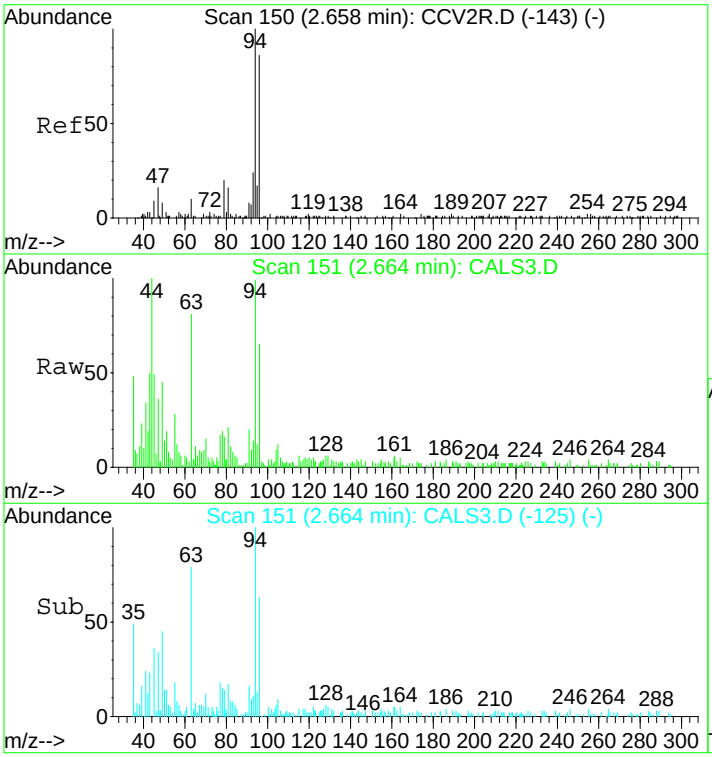
Quant Time: Oct 26 09:12:03 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:43:56 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



After Manual Integration

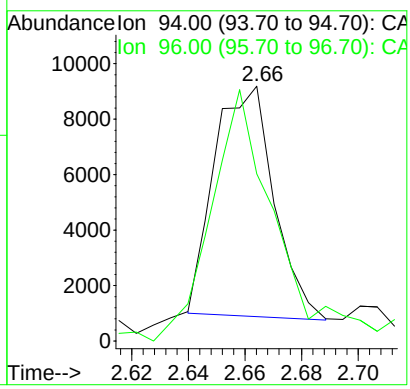
RJ 11/20/2019

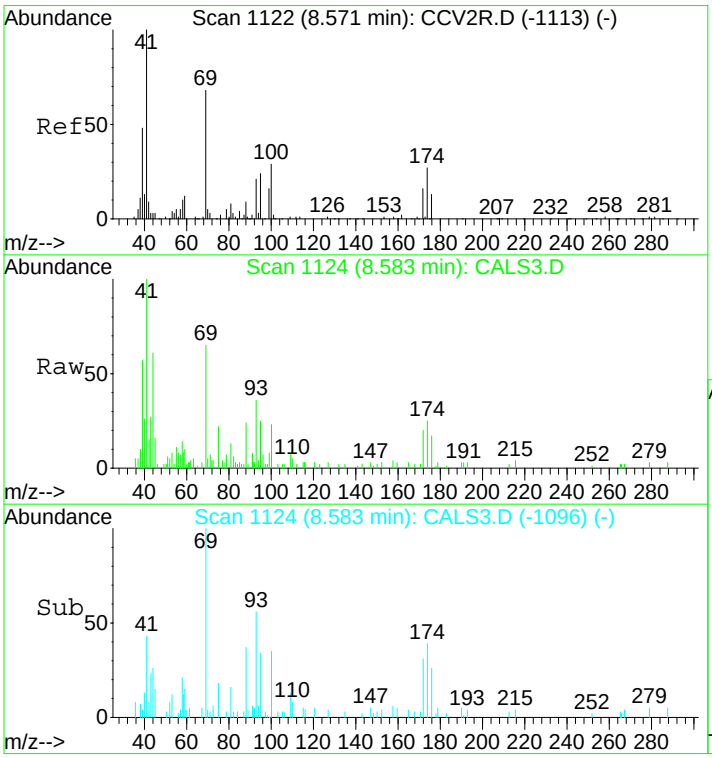


#5
Bromomethane
Concen: 0.07 mg/kg m
RT: 2.66 min Scan# 151
Delta R.T. 0.01 min
Lab File: CALS3.D
Acq: 26 Oct 2019 2:16

Tgt Ion: 94 Resp: 12068

Ion	Ratio	Lower	Upper
94	100		
96	117.5	72.1	112.1#

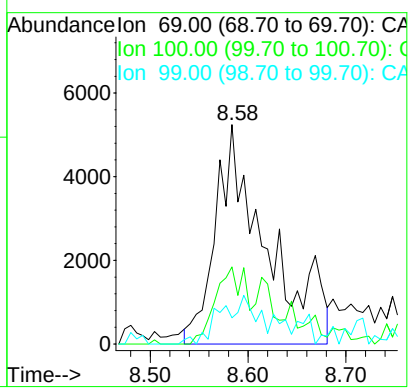




#54
methylmethacrylate
Concen: 0.10 mg/kg m
RT: 8.58 min Scan# 1124
Delta R.T. 0.02 min
Lab File: CALS3.D
Acq: 26 Oct 2019 2:16

Tgt Ion: 69 Resp: 18710

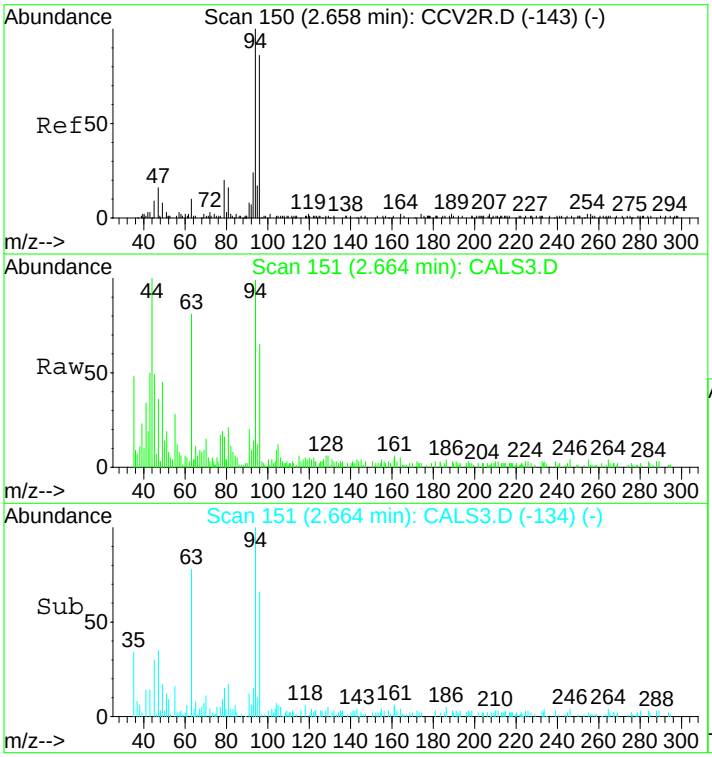
Ion	Ratio	Lower	Upper
69	100		
100	38.8	16.8	56.8
99	19.4	0.9	40.9



DGS 11/20/2019

Before Manual Integration

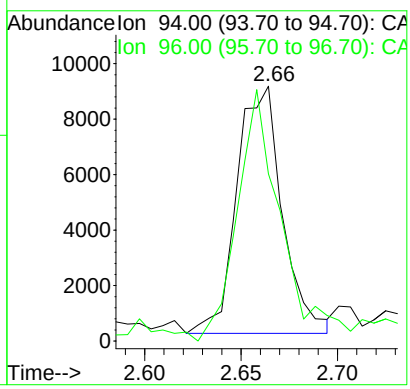
RJ 11/20/2019



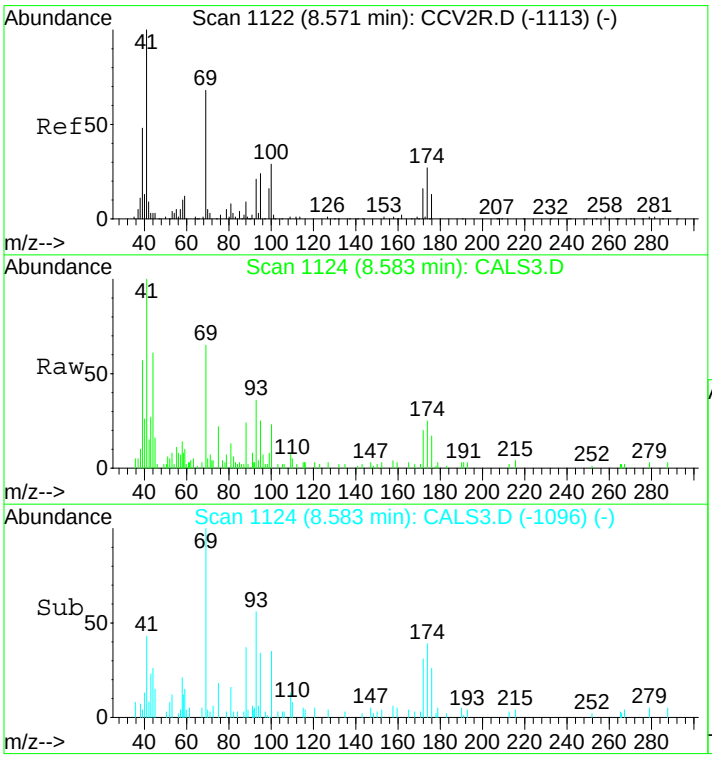
#5
Bromomethane
Concen: 0.10 mg/kg
RT: 2.66 min Scan# 151
Delta R.T. 0.01 min
Lab File: CALS3.D
Acq: 26 Oct 2019 2:16

Tgt Ion: 94 Resp: 14616

Ion	Ratio	Lower	Upper
94	100		
96	97.0	72.1	112.1



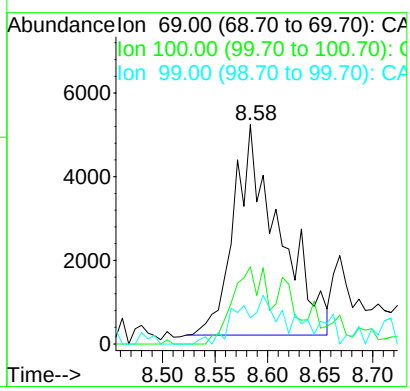
REASON # 2



#54
methylmethacrylate
Concen: 0.09 mg/kg
RT: 8.58 min Scan# 1124
Delta R.T. 0.02 min
Lab File: CALS3.D
Acq: 26 Oct 2019 2:16

Tgt Ion: 69 Resp: 14998

Ion	Ratio	Lower	Upper
69	100		
100	48.4	16.8	56.8
99	24.2	0.9	40.9



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS4.D Vial: 8
Acq On : 26 Oct 2019 2:44 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:17 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:10 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1366501	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.58	117	1099045	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	582464	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.82	113	356283	0.995	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.23	102	88868	1.024	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102 %			
61) SURRd8Tolule	9.66	98	1399732	1.004	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	553801	0.991	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	77418	0.1616	mg/kg	97
3) Chloromethan	2.07	50	146680	0.1976	mg/kg	99
4) VinylChlorid	2.21	62	102454	0.2044	mg/kg	100
5) Bromomethane	2.66	94	33798	0.1870	mg/kg	99
6) Chloroethane	2.79	64	24426	0.2001	mg/kg	89
7) dichloroflmethane	3.09	67	59045	0.2149	mg/kg#	45
8) Trichlorofma	3.13	101	77012	0.2201	mg/kg	94
9) Ethylether	3.67	59	82908	0.2415	mg/kg	96
10) dichlorotfluoroethan	3.66	67	81957	0.2037	mg/kg	98
11) propyleneoxide	3.73	58	223762	2.5391	mg/kg	97
12) Acrolein	3.83	56	39253	0.9873	mg/kg	89
13) 11dichlorthe	3.89	96	67428	0.2021	mg/kg	93
14) Trichlorotfluoroeth	3.92	101	96003	0.3469	mg/kg	99
15) Acetone	4.09	43	386929	3.4738	mg/kg	100
16) Iodomethane	4.08	127	34307	0.3615	mg/kg	90
17) Carbon Dislf	4.16	76	346743	0.4319	mg/kg	99
18) allylchloride	4.41	41	367827	0.4729	mg/kg	99
19) methylacetate	4.53	74	41207	0.3068	mg/kg	94
20) Methylchlorid	4.58	84	95309	0.2029	mg/kg	99
21) Acrylonitrile	4.96	53	192456	1.4847	mg/kg	97
22) t12dichlorte	4.95	96	81014	0.2384	mg/kg	98
23) tbutylalcohol	4.90	59	874676	13.0435	mg/kg	99
24) MtBE	4.99	73	237874	0.2387	mg/kg#	73
25) Hexane	5.30	57	228292	0.3379	mg/kg	99
26) 11dichlorota	5.48	63	168134	0.2388	mg/kg	96
27) Vinylacetate	5.60	43	1858849	2.8716	mg/kg	100
28) chloroprene	5.60	53	266705	0.4300	mg/kg	99
29) Diisopether	5.63	45	350225	0.2568	mg/kg	98
30) ETBE	6.08	59	282217	0.2571	mg/kg	99
31) 22dichloropr	6.20	77	113947	0.2038	mg/kg	95
32) c12dichlorte	6.23	96	92574	0.2449	mg/kg	95
33) 2Butanone	6.29	72	114501	2.7654	mg/kg	94
34) propionitrile	6.36	54	173681	3.0758	mg/kg	98
35) Ethylacetate	6.37	88	13473	1.3569	mg/kg#	56
36) methacrylonitrile	6.53	67	90433	0.6232	mg/kg	97
37) Bromochlorma	6.52	128	39200	0.2393	mg/kg	94
38) Tetrahydofur	6.61	42	422008	2.7364	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS4.D Vial: 8
Acq On : 26 Oct 2019 2:44 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:17 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:10 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	148902	0.2373 mg/kg	100
40)	111trichlota	6.85	97	113776	0.2158 mg/kg	98
42)	Cyclohexane	6.91	56	123199	0.1815 mg/kg	97
43)	Carbtetraclo	7.06	119	88489	0.2004 mg/kg	100
44)	11dicloprope	7.06	110	34983	0.2236 mg/kg	99
46)	Benzene	7.31	78	327237	0.2344 mg/kg	96
47)	12dichlorota	7.33	62	122230	0.2481 mg/kg	97
48)	TAME	7.47	73	238710	0.2544 mg/kg	99
49)	trichloroete	8.12	95	81805	0.2555 mg/kg	99
50)	methylcyclohexane	8.36	83	120527	0.1738 mg/kg	98
51)	12dicloropra	8.39	63	106136	0.2612 mg/kg	99
52)	23dicl1propene	8.46	75	122360	0.2581 mg/kg	97
53)	Dibromometha	8.55	93	55834	0.2569 mg/kg	96
54)	methylmethacrylate	8.58	69	59653	0.3365 mg/kg	95
55)	14dioxane	8.60	88	74604	14.3768 mg/kg	91
56)	Bromodiclrma	8.74	83	107935	0.2664 mg/kg	97
57)	2Nitropropane	9.03	43	310798	2.5885 mg/kg	93
58)	2CLEVE	9.14	63	338379	1.4061 mg/kg	99
59)	c13dicloproe	9.32	75	146769	0.2763 mg/kg	98
60)	4Meth2Pentan	9.51	43	1283584	2.7371 mg/kg	98
62)	Toluene	9.75	92	218981	0.2385 mg/kg	98
63)	t13Dicloprop	10.05	75	121984	0.2842 mg/kg	96
64)	ethylmethacrylate	10.17	69	252954	0.5646 mg/kg	99
65)	112Triclotha	10.27	83	71307	0.2641 mg/kg	98
66)	Tetrachlorte	10.48	166	82509	0.2160 mg/kg	99
67)	13Diclorpropa	10.50	76	138564	0.2642 mg/kg	99
69)	2Hexanone	10.62	43	921358	3.1037 mg/kg	97
70)	Clorodibrmta	10.80	129	78854	0.2579 mg/kg	98
71)	12Dibrometha	10.95	107	84934	0.2631 mg/kg	99
72)	Chlorobenzen	11.63	112	231148	0.2404 mg/kg	96
73)	1Clhexane	11.59	91	94101	0.1906 mg/kg	93
74)	1112Tetclota	11.73	131	81091	0.2589 mg/kg	95
75)	Ethylbenzene	11.78	91	394292	0.2397 mg/kg	97
76)	m p-Xylene	11.94	106	303888	0.4991 mg/kg	100
77)	o-Xylene	12.49	106	158197	0.2502 mg/kg	100
78)	Styrene	12.52	104	254092	0.2724 mg/kg	98
79)	Bromoform	12.76	173	52406	0.2534 mg/kg	96
80)	Isopropylben	13.01	105	390744	0.2363 mg/kg	99
82)	cyclohexanone	13.13	55	123601	4.8364 mg/kg	97
84)	Bromobenzene	13.44	156	100866	0.2585 mg/kg	97
85)	1122Tetrclta	13.43	83	124144	0.2521 mg/kg	96
86)	123Triclproa	13.48	75	158886	0.2960 mg/kg	99
87)	14dichloro2butene	13.53	53	38180	0.2649 mg/kg	96
88)	n-Propylbenz	13.60	91	446052	0.2441 mg/kg	100
89)	2chlorotolue	13.72	91	271717	0.2431 mg/kg	99
90)	4chlorotolue	13.88	91	310217	0.2547 mg/kg	99
91)	135Trimebenz	13.86	105	331868	0.2409 mg/kg	99
92)	tbutylbenzen	14.33	119	269158	0.2249 mg/kg	98
93)	124Trimetben	14.40	105	337106	0.2545 mg/kg	98
94)	sbutylbenzen	14.64	105	380871	0.2180 mg/kg	99
95)	13Diclorbenz	14.80	146	186658	0.2520 mg/kg	99
96)	pIsopropylto	14.86	119	331151	0.2336 mg/kg	99
97)	14dichlorobe	14.93	146	185638	0.2463 mg/kg	96
98)	12dichlorobe	15.46	146	174760	0.2446 mg/kg	98
99)	nButylbenzen	15.46	91	291876	0.2249 mg/kg	98
100)	12dibromo3cl	16.58	157	25232	0.2314 mg/kg	97
101)	135Trichlorobenzene	16.89	180	122571	0.2636 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS4.D Vial: 8
Acq On : 26 Oct 2019 2:44 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:17 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:10 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.70	180	106008	0.2465	mg/kg	98
103)	Hexachlorobu	17.93	225	47768	0.2092	mg/kg	97
104)	Naphthalene	18.02	128	298001	0.2545	mg/kg	99
105)	123Trichlben	18.32	180	101921	0.2596	mg/kg	98

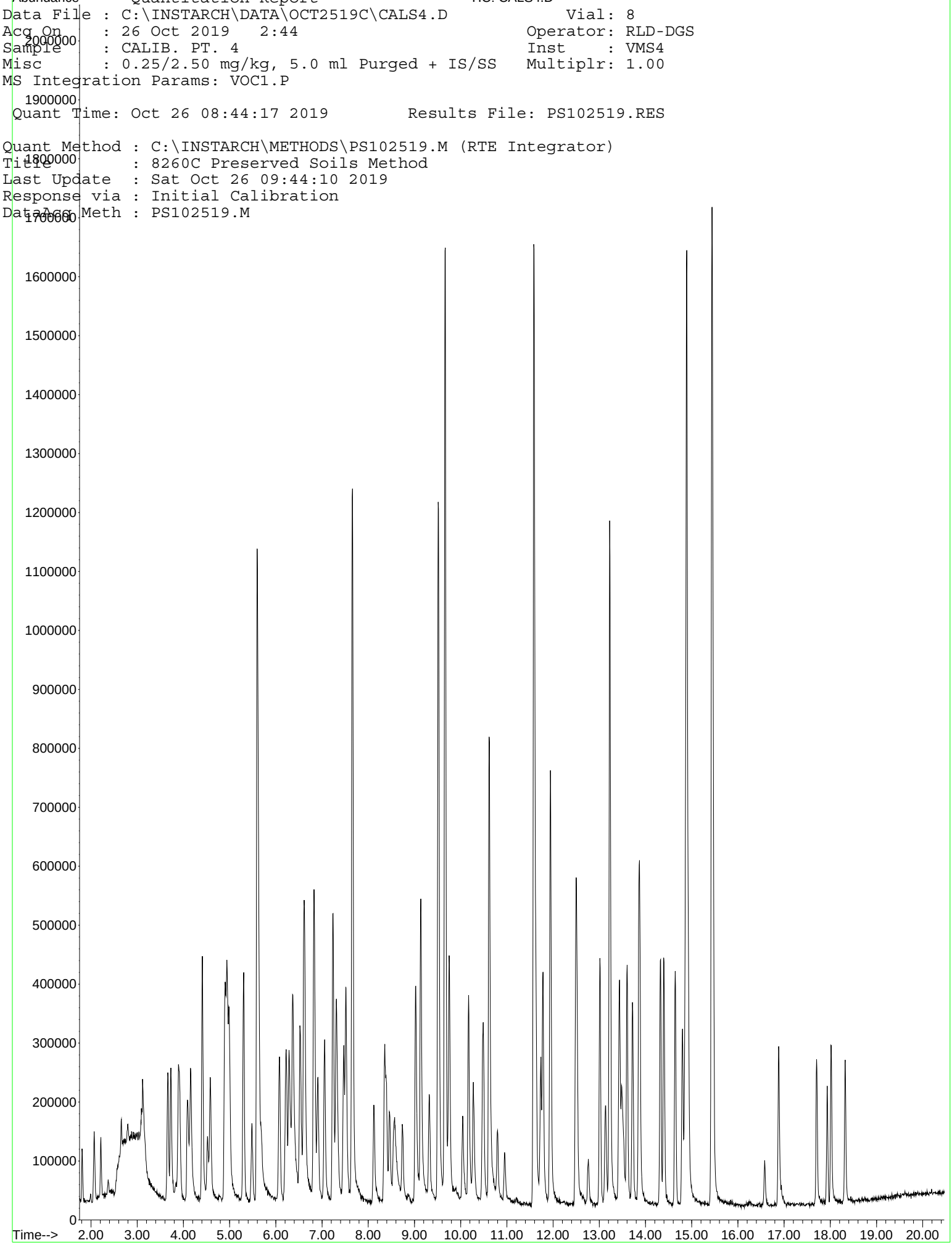
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALS4.D

Data File : C:\INSTARCH\DATA\OCT2519C\CALS4.D Vial: 8
Acq On : 26 Oct 2019 2:44 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:17 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:10 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS5.D Vial: 9
Acq On : 26 Oct 2019 3:12 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:31 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:23 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1362576	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.58	117	1097697	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	578997	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	357460	1.002	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	85830	0.987	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
61) SURRd8Tolule	9.67	98	1389928	0.999	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	550610	0.993	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	224210	0.5052	mg/kg	100
3) Chloromethan	2.07	50	296098	0.4176	mg/kg	100
4) VinylChlorid	2.21	62	248819	0.5167	mg/kg	100
5) Bromomethane	2.66	94	50815	0.3010	mg/kg	100
6) Chloroethane	2.79	64	45658	0.3908	mg/kg	100
7) dichloroflmethane	3.10	67	95865	0.3601	mg/kg	100
8) Trichlorofma	3.13	101	172865	0.5075	mg/kg	100
9) Ethylether	3.67	59	159082	0.4679	mg/kg	100
10) dichlorotfluoroethan	3.66	67	192113	0.4972	mg/kg	100
11) propyleneoxide	3.73	58	432026	4.9011	mg/kg	100
12) Acrolein	3.83	56	80542	2.1209	mg/kg	99
13) 11dichlorthe	3.89	96	150411	0.4702	mg/kg	100
14) Trichlorotfluoroeth	3.92	101	271015	1.0463	mg/kg	100
15) Acetone	4.09	43	709202	5.9240	mg/kg	100
16) Iodomethane	4.08	127	76837	0.8595	mg/kg	100
17) Carbon Dislf	4.16	76	771506	0.9906	mg/kg	100
18) allylchloride	4.41	41	744753	0.9708	mg/kg	100
19) methylacetate	4.52	74	74987	0.5298	mg/kg	100
20) Methylchlorid	4.58	84	175369	0.3891	mg/kg	100
21) Acrylonitrile	4.96	53	401152	2.9912	mg/kg	100
22) t12dichlorte	4.95	96	157910	0.4704	mg/kg	100
23) tbutylalcohol	4.91	59	1525265	22.6142	mg/kg	100
24) MtBE	4.99	73	457488	0.4647	mg/kg	100
25) Hexane	5.30	57	649684	1.0313	mg/kg	100
26) 11dichlorota	5.48	63	338265	0.4861	mg/kg	100
27) Vinylacetate	5.59	43	3643404	5.4817	mg/kg	100
28) chloroprene	5.60	53	604331	1.0053	mg/kg	100
29) Diisopether	5.63	45	670327	0.4903	mg/kg	100
30) ETBE	6.08	59	542817	0.4931	mg/kg	100
31) 22dichloropr	6.21	77	259061	0.4825	mg/kg	100
32) c12dichlorte	6.23	96	179718	0.4788	mg/kg	100
33) 2Butanone	6.28	72	221100	5.2168	mg/kg	99
34) propionitrile	6.36	54	337125	5.6615	mg/kg	99
35) Ethylacetate	6.38	88	32346	3.1986	mg/kg	100
36) methacrylonitrile	6.53	67	169228	1.1147	mg/kg	100
37) Bromochlorma	6.52	128	79044	0.4880	mg/kg	100
38) Tetrahydofur	6.61	42	779058	4.9721	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS5.D Vial: 9
Acq On : 26 Oct 2019 3:12 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:31 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:23 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.62	83	281426	0.4545	mg/kg	100
40)	111trichlota	6.84	97	251256	0.4914	mg/kg	100
42)	Cyclohexane	6.91	56	334908	0.5235	mg/kg	100
43)	Carbtetraclo	7.06	119	211791	0.5009	mg/kg	100
44)	11dicloprope	7.06	110	79259	0.5218	mg/kg	100
46)	Benzene	7.31	78	664075	0.4830	mg/kg	100
47)	12dichlorota	7.33	62	233036	0.4751	mg/kg	99
48)	TAME	7.47	73	453218	0.4827	mg/kg	100
49)	trichloroete	8.12	95	169724	0.5293	mg/kg	100
50)	methylcyclohexane	8.35	83	350755	0.5403	mg/kg	100
51)	12dicloropra	8.39	63	202219	0.4947	mg/kg	100
52)	23dicl1propene	8.46	75	243778	0.5116	mg/kg	100
53)	Dibromometha	8.55	93	102699	0.4707	mg/kg	100
54)	methylmethacrylate	8.57	69	112677	0.5867	mg/kg	100
55)	14dioxane	8.61	88	125884	23.4486	mg/kg	100
56)	Bromodiclrma	8.74	83	207116	0.5060	mg/kg	100
57)	2Nitropropane	9.02	43	635537	5.2618	mg/kg	100
58)	2CLEVE	9.13	63	660188	2.6680	mg/kg	100
59)	c13dicloproe	9.32	75	278661	0.5153	mg/kg	100
60)	4Meth2Pentan	9.51	43	2354989	4.9425	mg/kg	100
62)	Toluene	9.75	92	440037	0.4852	mg/kg	100
63)	t13Dicloprop	10.04	75	241604	0.5494	mg/kg	100
64)	ethylmethacrylate	10.17	69	480570	1.0420	mg/kg	100
65)	112Triclotha	10.27	83	133651	0.4895	mg/kg	100
66)	Tetrachlorte	10.48	166	186564	0.5034	mg/kg	100
67)	13Diclorpropa	10.49	76	262561	0.4964	mg/kg	100
69)	2Hexanone	10.62	43	1694168	5.4508	mg/kg	100
70)	Clorodibrmta	10.80	129	154270	0.5020	mg/kg	100
71)	12Dibrometha	10.95	107	163629	0.5023	mg/kg	100
72)	Chlorobenzen	11.63	112	463155	0.4861	mg/kg	100
73)	1Clhexane	11.59	91	233504	0.4972	mg/kg	100
74)	1112Tetclota	11.73	131	159520	0.5054	mg/kg	100
75)	Ethylbenzene	11.78	91	809769	0.4971	mg/kg	100
76)	m p-Xylene	11.94	106	609560	1.0027	mg/kg	100
77)	o-Xylene	12.49	106	311923	0.4938	mg/kg	100
78)	Styrene	12.51	104	497391	0.5245	mg/kg	100
79)	Bromoform	12.76	173	101645	0.4904	mg/kg	100
80)	Isopropylben	13.01	105	812174	0.4972	mg/kg	100
82)	cyclohexanone	13.13	55	228448	9.0667	mg/kg	100
84)	Bromobenzene	13.44	156	193795	0.4962	mg/kg	99
85)	1122Tetrclta	13.43	83	230841	0.4707	mg/kg	100
86)	123Triclproa	13.49	75	294117	0.5270	mg/kg	100
87)	14dichloro2butene	13.51	53	73329	0.5044	mg/kg	100
88)	n-Propylbenz	13.60	91	943931	0.5221	mg/kg	100
89)	2chlorotolue	13.72	91	550427	0.4981	mg/kg	100
90)	4chlorotolue	13.88	91	612129	0.5037	mg/kg	100
91)	135Trimebenz	13.86	105	666612	0.4904	mg/kg	100
92)	tbutylbenzen	14.32	119	580456	0.4978	mg/kg	100
93)	124Trimetben	14.39	105	656000	0.4964	mg/kg	100
94)	sbutylbenzen	14.64	105	860739	0.5086	mg/kg	100
95)	13Diclorbenz	14.80	146	361601	0.4903	mg/kg	100
96)	pIsopropylto	14.86	119	713938	0.5134	mg/kg	100
97)	14dichlorobe	14.93	146	350288	0.4689	mg/kg	100
98)	12dichlorobe	15.46	146	334953	0.4737	mg/kg	100
99)	nButylbenzen	15.46	91	652053	0.5158	mg/kg	100
100)	12dibromo3cl	16.58	157	48601	0.4569	mg/kg	100
101)	135Trichlorobenzene	16.89	180	237745	0.5089	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS5.D Vial: 9
Acq On : 26 Oct 2019 3:12 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:31 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:23 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.70	180	212989	0.4996	mg/kg	100
103) Hexachlorobu	17.93	225	105607	0.4810	mg/kg	100
104) Naphthalene	18.01	128	565505	0.4842	mg/kg	100
105) 123Trichlben	18.32	180	198604	0.5050	mg/kg	100

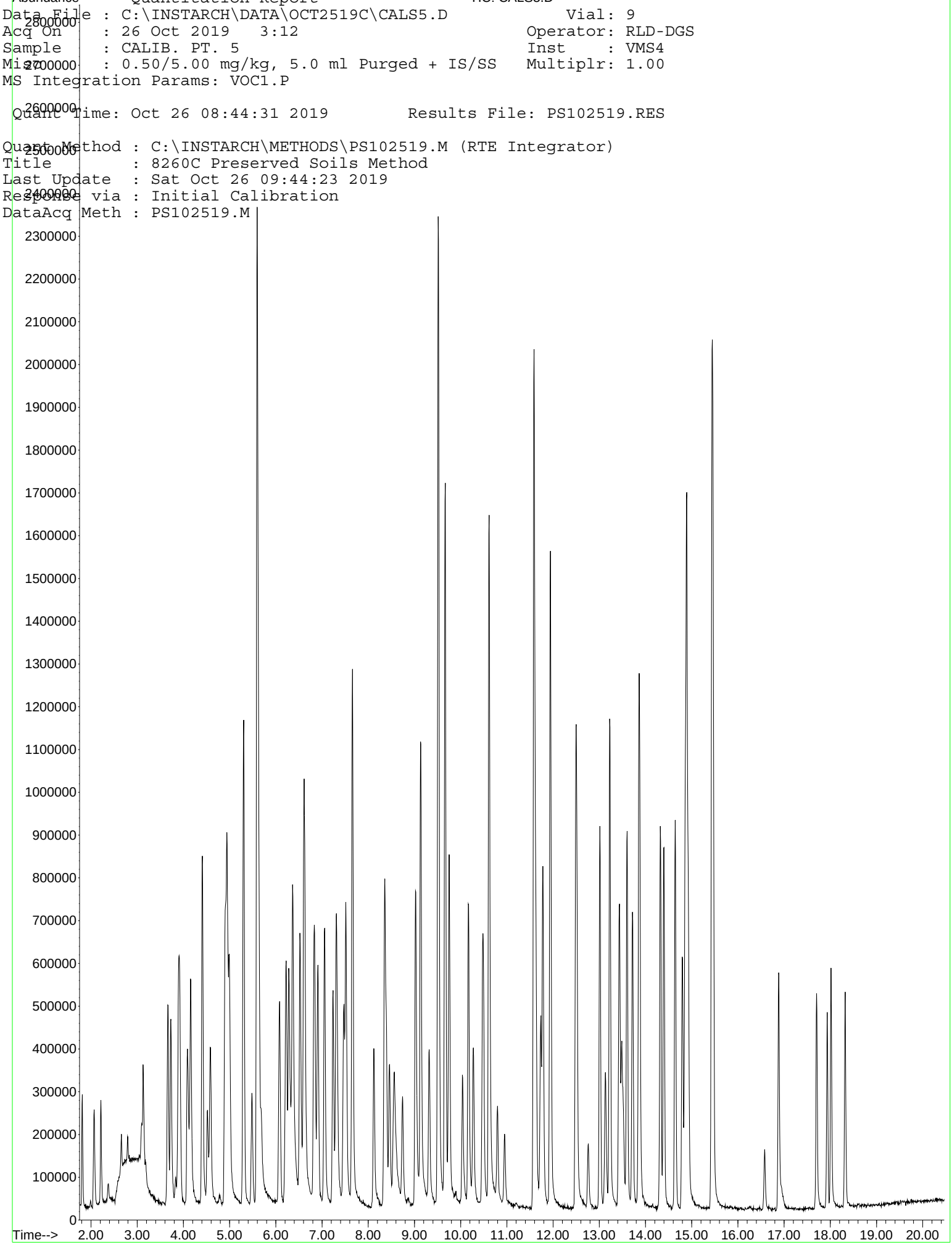
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALS5.D

Data File : C:\INSTARCH\DATA\OCT2519C\CALS5.D Vial: 9
Acq On : 26 Oct 2019 3:12 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:31 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:23 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS6.D Vial: 10
Acq On : 26 Oct 2019 3:40 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:44 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:37 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1379479	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.58	117	1119235	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	573198	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	355824	0.985	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
45) SURR12DCAd4	7.24	102	87119	0.990	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
61) SURRd8Tolule	9.67	98	1393048	0.989	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
83) SURR4BrFBenz	13.23	95	562050	1.024	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	430618	0.9583	mg/kg	96
3) Chloromethan	2.07	50	579185	0.8068	mg/kg	100
4) VinylChlorid	2.21	62	479198	0.9830	mg/kg	100
5) Bromomethane	2.65	94	89606	0.5242	mg/kg	98
6) Chloroethane	2.79	64	90400	0.7642	mg/kg	100
7) dichloroflmethane	3.09	67	192843	0.7154	mg/kg#	76
8) Trichlorofma	3.13	101	357129	1.0357	mg/kg	97
9) Ethylether	3.67	59	324979	0.9443	mg/kg	99
10) dichlorotfluoroethan	3.66	67	387060	0.9895	mg/kg	99
11) propyleneoxide	3.72	58	878885	9.8484	mg/kg	99
12) Acrolein	3.83	56	159426	4.1563	mg/kg	92
13) 11dichlorthe	3.89	96	293747	0.9070	mg/kg	99
14) Trichlorotfluoroeth	3.91	101	540640	2.0619	mg/kg	98
15) Acetone	4.09	43	1574579	12.9913	mg/kg	100
16) Iodomethane	4.08	127	209700	2.3170	mg/kg	99
17) Carbon Dislf	4.15	76	1517155	1.9242	mg/kg	98
18) allylchloride	4.40	41	1506572	1.9397	mg/kg	100
19) methylacetate	4.51	74	178480	1.2455	mg/kg	97
20) Methylchlorid	4.58	84	357747	0.7842	mg/kg	98
21) Acrylonitrile	4.95	53	884694	6.5160	mg/kg	97
22) t12dichlorte	4.94	96	321598	0.9462	mg/kg	97
23) tbutylalcohol	4.91	59	3262033	47.7716	mg/kg	99
24) MtBE	4.99	73	939507	0.9425	mg/kg#	74
25) Hexane	5.30	57	1288637	2.0205	mg/kg	99
26) 11dichlorota	5.48	63	716270	1.0167	mg/kg	98
27) Vinylacetate	5.59	43	7327633	10.8980	mg/kg	99
28) chloroprene	5.60	53	1212922	1.9929	mg/kg	100
29) Diisopether	5.63	45	1366358	0.9872	mg/kg	97
30) ETBE	6.08	59	1113134	0.9988	mg/kg	99
31) 22dichloropr	6.21	77	507307	0.9333	mg/kg	99
32) c12dichlorte	6.22	96	359354	0.9457	mg/kg	99
33) 2Butanone	6.28	72	512878	11.9816	mg/kg	98
34) propionitrile	6.35	54	757039	12.6102	mg/kg	98
35) Ethylacetate	6.36	88	66990	6.5432	mg/kg#	73
36) methacrylonitrile	6.52	67	383700	2.4939	mg/kg	95
37) Bromochlorma	6.52	128	156398	0.9544	mg/kg	97
38) Tetrahydofur	6.61	42	1660266	10.4663	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS6.D Vial: 10
Acq On : 26 Oct 2019 3:40 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:44 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:37 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	583508	0.9310 mg/kg	100
40)	111trichlota	6.84	97	507374	0.9802 mg/kg	99
42)	Cyclohexane	6.91	56	641628	0.9907 mg/kg	98
43)	Carbtetraclo	7.05	119	430697	1.0062 mg/kg	98
44)	11dicloprope	7.06	110	164017	1.0666 mg/kg	96
46)	Benzene	7.31	78	1367928	0.9827 mg/kg	100
47)	12dichlorota	7.33	62	496207	1.0005 mg/kg	97
48)	TAME	7.46	73	944161	0.9933 mg/kg	100
49)	trichloroete	8.12	95	351801	1.0850 mg/kg	99
50)	methylcyclohexane	8.35	83	677333	1.0309 mg/kg	97
51)	12dicloropra	8.39	63	428762	1.0360 mg/kg	97
52)	23dicl1propene	8.46	75	502040	1.0406 mg/kg	98
53)	Dibromometha	8.54	93	217689	0.9854 mg/kg	97
54)	methylmethacrylate	8.57	69	254736	1.3101 mg/kg	99
55)	14dioxane	8.61	88	286546	52.6259 mg/kg	97
56)	Bromodiclrma	8.74	83	442645	1.0682 mg/kg	98
57)	2Nitropropane	9.02	43	1414448	11.5671 mg/kg	98
58)	2CLEVE	9.13	63	1404074	5.6047 mg/kg	99
59)	c13dicloproe	9.31	75	588468	1.0748 mg/kg	98
60)	4Meth2Pentan	9.51	43	4752995	9.8531 mg/kg	98
62)	Toluene	9.75	92	901312	0.9819 mg/kg	98
63)	t13Dicloprop	10.04	75	523068	1.1756 mg/kg	98
64)	ethylmethacrylate	10.17	69	1028065	2.2061 mg/kg	99
65)	112Triclotha	10.27	83	271929	0.9835 mg/kg	98
66)	Tetrachlorte	10.48	166	372417	0.9926 mg/kg	99
67)	13Diclorpropa	10.49	76	562915	1.0513 mg/kg	100
69)	2Hexanone	10.61	43	3578379	11.2839 mg/kg	99
70)	Clorodibrmta	10.79	129	328706	1.0491 mg/kg	98
71)	12Dibrometha	10.95	107	340325	1.0245 mg/kg	98
72)	Chlorobenzen	11.63	112	936175	0.9636 mg/kg	100
73)	1Clhexane	11.59	91	459857	0.9597 mg/kg	97
74)	1112Tetclota	11.73	131	326623	1.0147 mg/kg	97
75)	Ethylbenzene	11.78	91	1638698	0.9865 mg/kg	100
76)	m p-Xylene	11.94	106	1255741	2.0259 mg/kg	98
77)	o-Xylene	12.50	106	631797	0.9810 mg/kg	98
78)	Styrene	12.51	104	1033140	1.0684 mg/kg	99
79)	Bromoform	12.76	173	223592	1.0577 mg/kg	99
80)	Isopropylben	13.01	105	1625697	0.9760 mg/kg	99
82)	cyclohexanone	13.13	55	471432	18.9168 mg/kg	99
84)	Bromobenzene	13.44	156	395707	1.0237 mg/kg	98
85)	1122Tetrclta	13.42	83	479840	0.9889 mg/kg	99
86)	123Triclproa	13.49	75	614386	1.1128 mg/kg	99
87)	14dichloro2butene	13.52	53	160810	1.1180 mg/kg	99
88)	n-Propylbenz	13.60	91	1902625	1.0636 mg/kg	97
89)	2chlorotolue	13.72	91	1101853	1.0077 mg/kg	99
90)	4chlorotolue	13.87	91	1242640	1.0333 mg/kg	98
91)	135Trimebenz	13.86	105	1339973	0.9963 mg/kg	99
92)	tbutylbenzen	14.32	119	1151817	0.9983 mg/kg	99
93)	124Trimetben	14.39	105	1328619	1.0160 mg/kg	100
94)	sbutylbenzen	14.64	105	1710947	1.0218 mg/kg	99
95)	13Diclorbenz	14.79	146	735954	1.0085 mg/kg	99
96)	pIsopropylto	14.86	119	1432322	1.0410 mg/kg	100
97)	14dichlorobe	14.92	146	725641	0.9817 mg/kg	98
98)	12dichlorobe	15.46	146	681323	0.9739 mg/kg	98
99)	nButylbenzen	15.46	91	1305626	1.0438 mg/kg	99
100)	12dibromo3cl	16.58	157	104235	0.9903 mg/kg	99
101)	135Trichlorobenzene	16.88	180	484137	1.0473 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS6.D Vial: 10
Acq On : 26 Oct 2019 3:40 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:44 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:37 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.70	180	447297	1.0603	mg/kg	99
103) Hexachlorobu	17.93	225	212846	0.9797	mg/kg	98
104) Naphthalene	18.01	128	1195597	1.0345	mg/kg	99
105) 123Trichlben	18.32	180	411515	1.0574	mg/kg	99

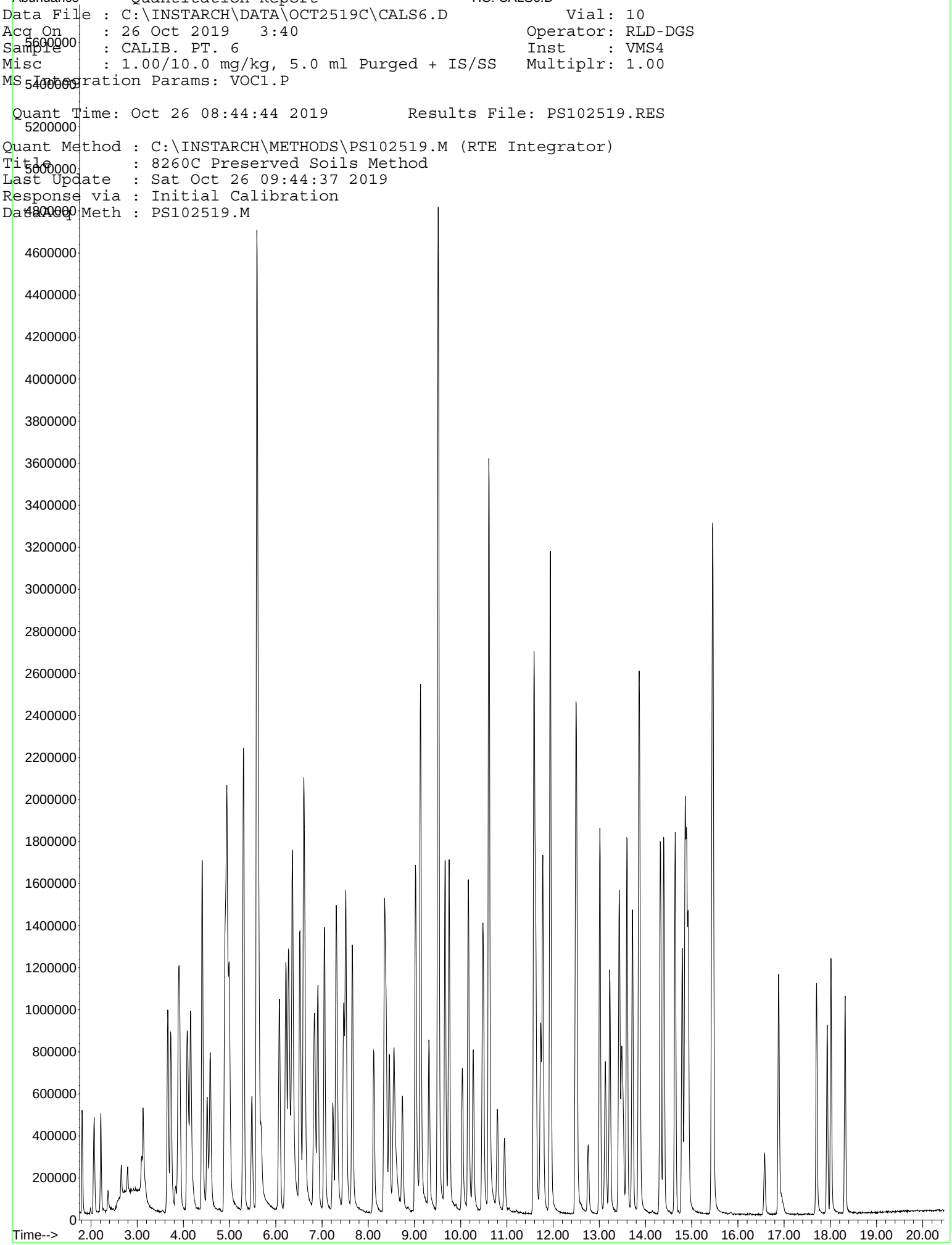
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALS6.D

Data File : C:\INSTARCH\DATA\OCT2519C\CALS6.D Vial: 10
Acq On : 26 Oct 2019 3:40 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:44:44 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:37 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS7.D Vial: 11
Acq On : 26 Oct 2019 4:09 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:04 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:53 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.65	96	1385335	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.58	117	1121438	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	589046	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	365975	1.012	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.24	102	97604	1.107	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 111 %			
61) SURRd8Tolule	9.67	98	1404053	0.994	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
83) SURR4BrFBenz	13.23	95	566011	1.000	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	693756	1.5482	mg/kg	99
3) Chloromethan	2.07	50	906462	1.2992	mg/kg	100
4) VinylChlorid	2.21	62	751318	1.5390	mg/kg	100
5) Bromomethane	2.66	94	143174	0.9218	mg/kg	100
6) Chloroethane	2.79	64	145646	1.2762	mg/kg	93
7) dichloroflmethane	3.10	67	262104	1.0165	mg/kg	90
8) Trichlorofma	3.14	101	437958	1.2572	mg/kg	97
9) Ethylether	3.67	59	487232	1.4230	mg/kg	99
10) dichlorotfluoroethan	3.66	67	627028	1.5989	mg/kg	98
11) propyleneoxide	3.73	58	1365343	15.2733	mg/kg	99
12) Acrolein	3.83	56	240828	6.4329	mg/kg	95
13) 11dichlorthe	3.89	96	480285	1.4999	mg/kg	97
14) Trichlorotfluoroeth	3.92	101	852859	3.2223	mg/kg	99
15) Acetone	4.09	43	2452227	19.1902	mg/kg	99
16) Iodomethane	4.09	127	358616	3.8442	mg/kg	97
17) Carbon Dislf	4.15	76	2352014	2.9893	mg/kg	100
18) allylchloride	4.41	41	2229892	2.8733	mg/kg	98
19) methylacetate	4.51	74	332628	2.2033	mg/kg	96
20) Methylchlorid	4.58	84	539278	1.2210	mg/kg	98
21) Acrylonitrile	4.95	53	1345690	9.3947	mg/kg	98
22) t12dichlorte	4.94	96	491426	1.4528	mg/kg	98
23) tbutylalcohol	4.92	59	4781693	70.2525	mg/kg	99
24) MtBE	4.99	73	1408954	1.4211	mg/kg#	73
25) Hexane	5.30	57	1992437	3.1056	mg/kg	100
26) 11dichlorota	5.48	63	1082616	1.5260	mg/kg	98
27) Vinylacetate	5.59	43	9224892	13.4602	mg/kg	98
28) chloroprene	5.60	53	1886739	3.0888	mg/kg	100
29) Diisopether	5.63	45	2035817	1.4678	mg/kg#	69
30) ETBE	6.08	59	1686068	1.5067	mg/kg	99
31) 22dichloropr	6.21	77	784315	1.4529	mg/kg	98
32) c12dichlorte	6.23	96	558923	1.4780	mg/kg	98
33) 2Butanone	6.28	72	783766	17.5375	mg/kg	100
34) propionitrile	6.36	54	1185213	18.6836	mg/kg	99
35) Ethylacetate	6.36	88	106732	9.7774	mg/kg#	86
36) methacrylonitrile	6.52	67	572057	3.5561	mg/kg	94
37) Bromochlorma	6.52	128	235531	1.4422	mg/kg	98
38) Tetrahydofur	6.61	42	2506591	15.6134	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS7.D Vial: 11
Acq On : 26 Oct 2019 4:09 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:04 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:53 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.62	83	887038	1.4257	mg/kg	100
40)	111trichlota	6.84	97	799654	1.5434	mg/kg	99
42)	Cyclohexane	6.91	56	1043325	1.6066	mg/kg	99
43)	Carbtetraclo	7.05	119	682608	1.5864	mg/kg	99
44)	11dicloprope	7.05	110	257855	1.6478	mg/kg	94
46)	Benzene	7.31	78	2060247	1.4781	mg/kg	99
47)	12dichlorota	7.33	62	740178	1.4860	mg/kg	99
48)	TAME	7.47	73	1426926	1.4965	mg/kg	99
49)	trichloroete	8.12	95	547733	1.6587	mg/kg	99
50)	methylcyclohexane	8.35	83	1101767	1.6612	mg/kg	98
51)	12dicloropra	8.39	63	657098	1.5716	mg/kg	99
52)	23dicl1propene	8.46	75	785950	1.6091	mg/kg	98
53)	Dibromometha	8.54	93	328207	1.4837	mg/kg	98
54)	methylmethacrylate	8.56	69	390560	1.8833	mg/kg	99
55)	14dioxane	8.60	88	432713	78.3119	mg/kg	97
56)	Bromodiclrma	8.74	83	674125	1.6017	mg/kg	99
57)	2Nitropropane	9.02	43	2265958	17.8915	mg/kg	98
58)	2CLEVE	9.13	63	2119416	8.2255	mg/kg	100
59)	c13dicloproe	9.31	75	893531	1.6051	mg/kg	99
60)	4Meth2Pentan	9.51	43	6880471	14.2380	mg/kg	95
62)	Toluene	9.75	92	1378569	1.5000	mg/kg	98
63)	t13Dicloprop	10.04	75	800198	1.7400	mg/kg	98
64)	ethylmethacrylate	10.17	69	1588243	3.3252	mg/kg	99
65)	112Triclotha	10.27	83	413196	1.4930	mg/kg	98
66)	Tetrachlorte	10.47	166	578036	1.5361	mg/kg	98
67)	13Diclorpropa	10.49	76	837295	1.5440	mg/kg	99
69)	2Hexanone	10.61	43	5380327	16.5780	mg/kg	98
70)	Clorodibrmta	10.80	129	509712	1.6105	mg/kg	99
71)	12Dibrometha	10.95	107	521660	1.5609	mg/kg	100
72)	Chlorobenzen	11.63	112	1414734	1.4622	mg/kg	99
73)	1Clhexane	11.59	91	711270	1.4916	mg/kg	96
74)	1112Tetclota	11.73	131	508909	1.5732	mg/kg	98
75)	Ethylbenzene	11.78	91	2529913	1.5235	mg/kg	100
76)	m p-Xylene	11.94	106	1922328	3.0886	mg/kg	95
77)	o-Xylene	12.49	106	958157	1.4896	mg/kg	97
78)	Styrene	12.51	104	1576317	1.6086	mg/kg	99
79)	Bromoform	12.76	173	343258	1.6022	mg/kg	99
80)	Isopropylben	13.01	105	2508047	1.5088	mg/kg	98
82)	cyclohexanone	13.13	55	723957	28.5776	mg/kg	99
84)	Bromobenzene	13.44	156	596997	1.4970	mg/kg	97
85)	1122Tetrclta	13.42	83	731471	1.4696	mg/kg	100
86)	123Triclproa	13.49	75	960403	1.6553	mg/kg	98
87)	14dichloro2butene	13.52	53	229069	1.5140	mg/kg	91
88)	n-Propylbenz	13.60	91	2919517	1.5715	mg/kg	97
89)	2chlorotolue	13.72	91	1679577	1.4928	mg/kg	98
90)	4chlorotolue	13.88	91	1927126	1.5508	mg/kg	98
91)	135Trimebenz	13.86	105	2061677	1.4925	mg/kg	98
92)	tbutylbenzen	14.32	119	1801920	1.5202	mg/kg	100
93)	124Trimetben	14.39	105	2051726	1.5227	mg/kg	99
94)	sbutylbenzen	14.64	105	2647621	1.5331	mg/kg	99
95)	13Diclorbenz	14.79	146	1118651	1.4896	mg/kg	99
96)	pIsopropylto	14.86	119	2217037	1.5574	mg/kg	100
97)	14dichlorobe	14.92	146	1115155	1.4726	mg/kg	97
98)	12dichlorobe	15.46	146	1037031	1.4488	mg/kg	99
99)	nButylbenzen	15.46	91	2029126	1.5672	mg/kg	99
100)	12dibromo3cl	16.58	157	163993	1.5191	mg/kg	100
101)	135Trichlorobenzene	16.88	180	744862	1.5557	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS7.D Vial: 11
Acq On : 26 Oct 2019 4:09 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:04 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:53 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.70	180	685476	1.5654	mg/kg	99
103)	Hexachlorobu	17.93	225	337102	1.5150	mg/kg	97
104)	Naphthalene	18.01	128	1850292	1.5490	mg/kg	100
105)	123Trichlben	18.32	180	640397	1.5861	mg/kg	99

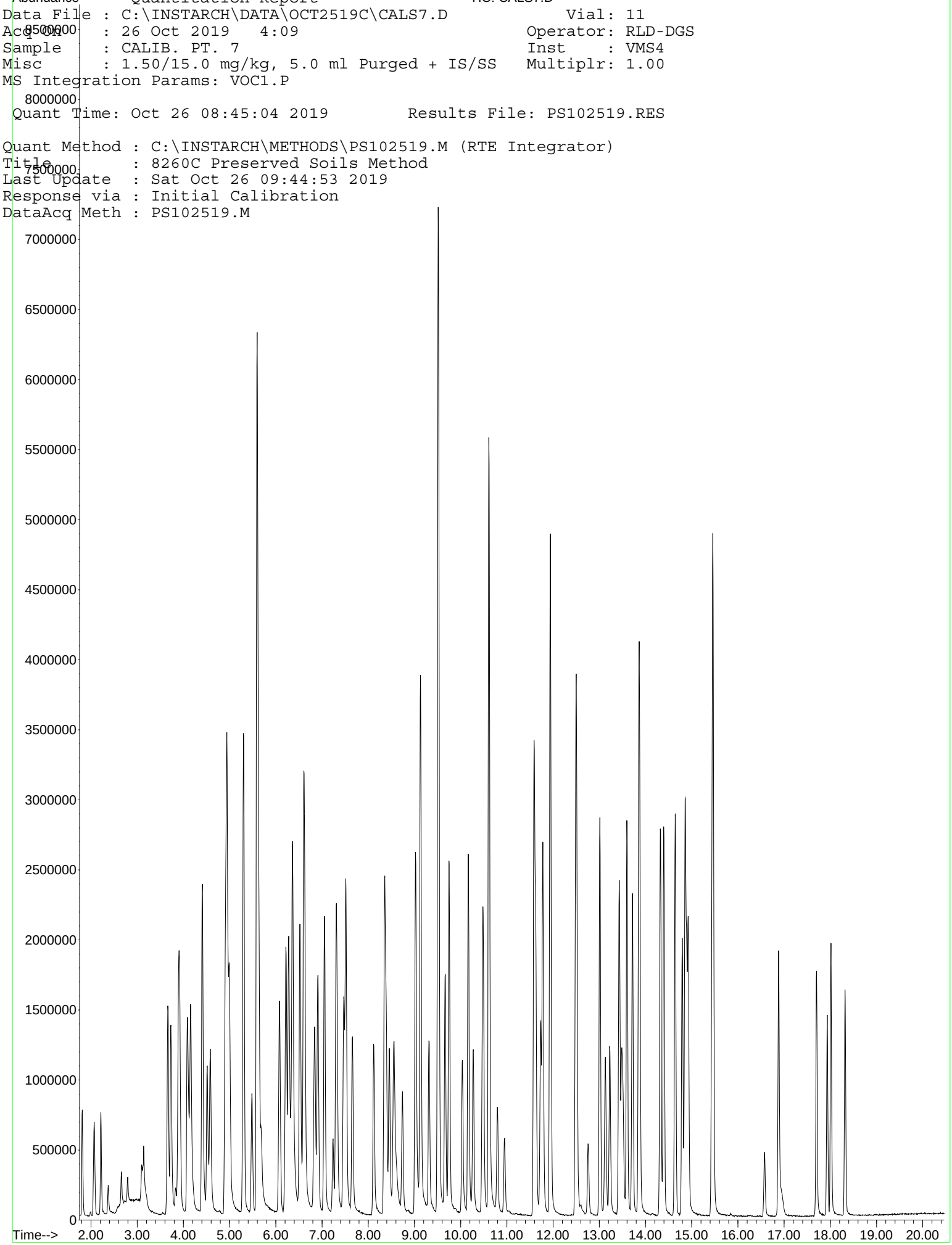
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALS7.D

Data File : C:\INSTARCH\DATA\OCT2519C\CALS7.D Vial: 11
Acq On : 26 Oct 2019 4:09 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:04 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:44:53 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS8.D Vial: 12
Acq On : 26 Oct 2019 4:37 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:20 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:11 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1393423	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.58	117	1122312	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	588049	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.82	113	363874	0.998	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.23	102	90416	1.004	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
61) SURRd8Tolule	9.67	98	1413080	0.996	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	567456	1.004	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	890351	1.9663	mg/kg	97
3) Chloromethan	2.06	50	1215227	1.7653	mg/kg	99
4) VinylChlorid	2.21	62	990963	2.0106	mg/kg	100
5) Bromomethane	2.66	94	196272	1.3426	mg/kg	95
6) Chloroethane	2.79	64	197119	1.7546	mg/kg	90
7) dichloroflmethane	3.10	67	894646	3.6159	mg/kg	84
8) Trichlorofma	3.13	101	934821	2.7311	mg/kg	97
9) Ethylether	3.66	59	638944	1.8690	mg/kg	98
10) dichlorotfluoroethan	3.66	67	803399	2.0178	mg/kg	100
11) propyleneoxide	3.72	58	1793579	19.8955	mg/kg	100
12) Acrolein	3.83	56	345209	9.3577	mg/kg	96
13) 11dichlorthe	3.89	96	624008	1.9375	mg/kg	98
14) Trichlorotfluoroeth	3.92	101	1110942	4.1293	mg/kg	100
15) Acetone	4.08	43	3226858	24.1421	mg/kg	99
16) Iodomethane	4.09	127	496276	5.0845	mg/kg	98
17) Carbon Dislf	4.16	76	3127321	3.9537	mg/kg	100
18) allylchloride	4.41	41	3047679	3.9279	mg/kg	99
19) methylacetate	4.51	74	378414	2.3114	mg/kg	93
20) Methylchlorid	4.58	84	712306	1.6471	mg/kg	97
21) Acrylonitrile	4.94	53	1800284	12.0601	mg/kg	98
22) t12dichlorte	4.94	96	643722	1.9005	mg/kg	97
23) tbutylalcohol	4.90	59	6401230	94.3540	mg/kg	100
24) MtBE	4.99	73	1838238	1.8573	mg/kg	98
25) Hexane	5.30	57	2624461	4.0466	mg/kg	100
26) 11dichlorota	5.48	63	1422316	1.9882	mg/kg	99
27) Vinylacetate	5.58	43	12347948	18.1792	mg/kg	95
28) chloroprene	5.60	53	2455036	3.9790	mg/kg	99
29) Diisopether	5.63	45	2679925	1.9269	mg/kg#	71
30) ETBE	6.08	59	2183532	1.9387	mg/kg	99
31) 22dichloropr	6.21	77	1034114	1.9131	mg/kg	99
32) c12dichlorte	6.22	96	737956	1.9442	mg/kg	99
33) 2Butanone	6.27	72	1017919	22.0237	mg/kg	99
34) propionitrile	6.34	54	1623584	24.4450	mg/kg	99
35) Ethylacetate	6.36	88	139003	12.0499	mg/kg#	80
36) methacrylonitrile	6.52	67	779327	4.6922	mg/kg	99
37) Bromochlorma	6.52	128	321175	1.9661	mg/kg	99
38) Tetrahydofur	6.60	42	3298299	20.3070	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS8.D Vial: 12
Acq On : 26 Oct 2019 4:37 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:20 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:11 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	1167102	1.8783 mg/kg	100
40)	111trichlota	6.84	97	1056505	2.0189 mg/kg	99
42)	Cyclohexane	6.91	56	1365235	2.0691 mg/kg	97
43)	Carbtetraclo	7.05	119	906118	2.0765 mg/kg	100
44)	11dicloprope	7.05	110	337430	2.1091 mg/kg	97
46)	Benzene	7.31	78	2730374	1.9516 mg/kg	99
47)	12dichlorota	7.33	62	981953	1.9625 mg/kg	97
48)	TAME	7.46	73	1873033	1.9536 mg/kg	99
49)	trichloroete	8.12	95	714286	2.1185 mg/kg	99
50)	methylcyclohexane	8.36	83	1420237	2.0968 mg/kg	97
51)	12dicloropra	8.39	63	857625	2.0255 mg/kg	98
52)	23dicl1propene	8.46	75	1017304	2.0459 mg/kg	96
53)	Dibromometha	8.54	93	440578	1.9838 mg/kg	96
54)	methylmethacrylate	8.56	69	527618	2.4261 mg/kg	99
55)	14dioxane	8.60	88	584047	104.3188 mg/kg	98
56)	Bromodiclrma	8.74	83	894943	2.0938 mg/kg	99
57)	2Nitropropane	9.02	43	3036061	23.0910 mg/kg	97
58)	2CLEVE	9.13	63	2766099	10.5036 mg/kg	100
59)	c13dicloproe	9.31	75	1177085	2.0813 mg/kg	99
60)	4Meth2Pentan	9.51	43	8564054	17.7478 mg/kg	93
62)	Toluene	9.75	92	1815498	1.9639 mg/kg	98
63)	t13Dicloprop	10.03	75	1067585	2.2564 mg/kg	98
64)	ethylmethacrylate	10.17	69	2091283	4.2757 mg/kg	99
65)	112Triclotha	10.27	83	554013	1.9918 mg/kg	98
66)	Tetrachlorte	10.48	166	764924	2.0140 mg/kg	98
67)	13Diclorpropa	10.49	76	1107920	2.0227 mg/kg	100
69)	2Hexanone	10.61	43	6805194	20.6418 mg/kg	96
70)	Clorodibrmta	10.79	129	689244	2.1534 mg/kg	99
71)	12Dibrometha	10.95	107	690608	2.0529 mg/kg	99
72)	Chlorobenzen	11.63	112	1864359	1.9324 mg/kg	99
73)	1Clhexane	11.59	91	959056	2.0112 mg/kg	96
74)	1112Tetclota	11.73	131	672326	2.0600 mg/kg	97
75)	Ethylbenzene	11.78	91	3279341	1.9688 mg/kg	98
76)	m p-Xylene	11.94	106	2510173	4.0130 mg/kg	95
77)	o-Xylene	12.49	106	1248760	1.9418 mg/kg	97
78)	Styrene	12.51	104	2080315	2.0995 mg/kg	99
79)	Bromoform	12.76	173	469394	2.1646 mg/kg	100
80)	Isopropylben	13.01	105	3282064	1.9712 mg/kg	98
82)	cyclohexanone	13.13	55	960308	38.2741 mg/kg	98
84)	Bromobenzene	13.44	156	798122	2.0053 mg/kg	98
85)	1122Tetrclta	13.43	83	966451	1.9507 mg/kg	99
86)	123Triclproa	13.49	75	1265264	2.1474 mg/kg	97
87)	14dichloro2butene	13.51	53	298458	1.9729 mg/kg	91
88)	n-Propylbenz	13.60	91	3802586	2.0365 mg/kg	96
89)	2chlorotolue	13.72	91	2214017	1.9725 mg/kg	98
90)	4chlorotolue	13.88	91	2507153	2.0112 mg/kg	99
91)	135Trimebenz	13.86	105	2694538	1.9554 mg/kg	97
92)	tbutylbenzen	14.32	119	2377310	2.0052 mg/kg	100
93)	124Trimetben	14.39	105	2675566	1.9848 mg/kg	98
94)	sbutylbenzen	14.64	105	3479456	2.0118 mg/kg	99
95)	13Diclorbenz	14.79	146	1493516	1.9941 mg/kg	100
96)	pIsopropylto	14.86	119	2921372	2.0444 mg/kg	100
97)	14dichlorobe	14.92	146	1458038	1.9337 mg/kg	100
98)	12dichlorobe	15.46	146	1373393	1.9314 mg/kg	99
99)	nButylbenzen	15.46	91	2673972	2.0555 mg/kg	98
100)	12dibromo3cl	16.58	157	217449	2.0134 mg/kg	99
101)	135Trichlorobenzene	16.88	180	977949	2.0351 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS8.D Vial: 12
Acq On : 26 Oct 2019 4:37 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:20 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:11 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.70	180	925028	2.1030	mg/kg	99
103) Hexachlorobu	17.93	225	461811	2.0760	mg/kg	97
104) Naphthalene	18.01	128	2435763	2.0331	mg/kg	100
105) 123Trichlben	18.32	180	839340	2.0654	mg/kg	99

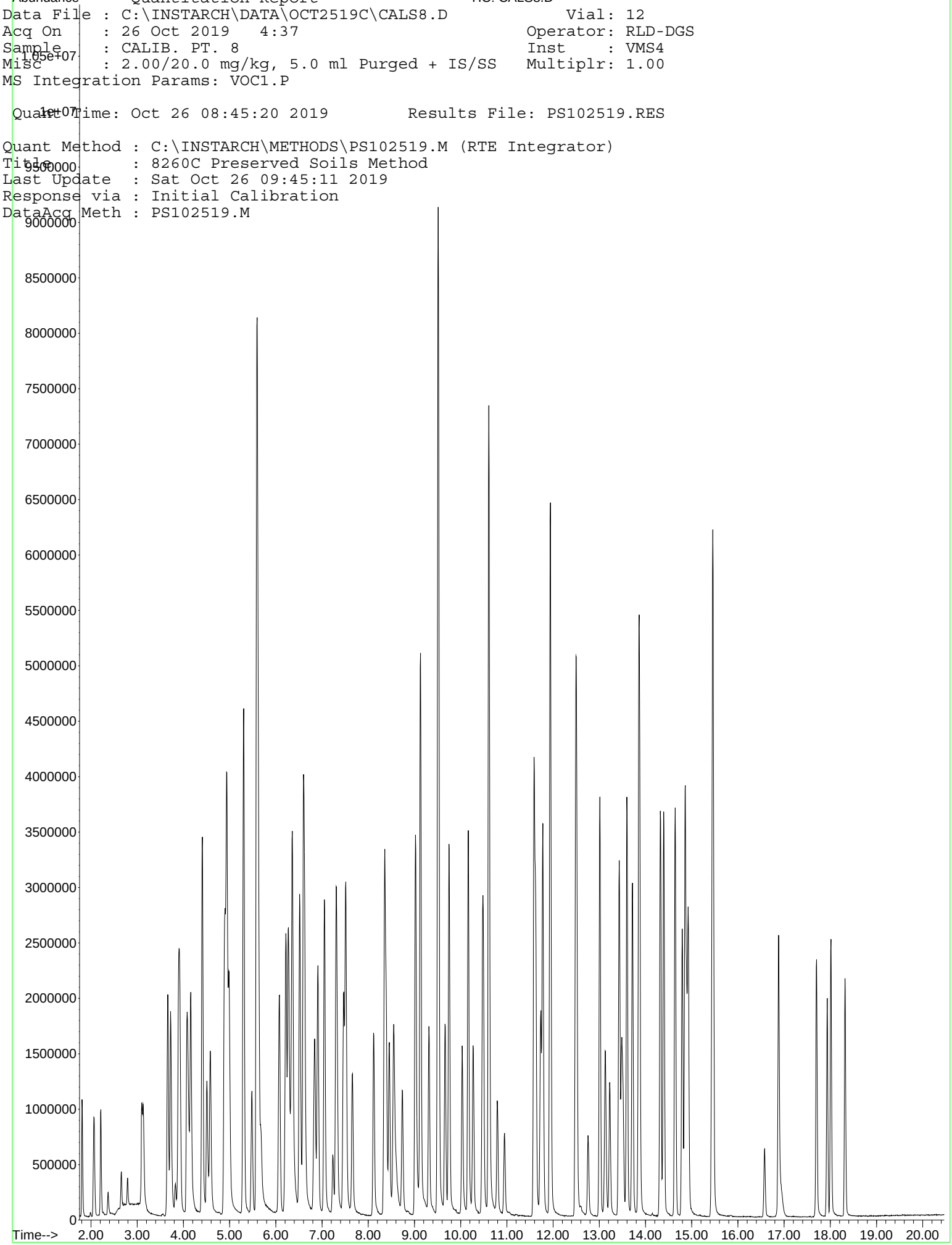
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALS8.D

Data File : C:\INSTARCH\DATA\OCT2519C\CALS8.D Vial: 12
Acq On : 26 Oct 2019 4:37 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:20 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:11 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS9.D Vial: 13
Acq On : 26 Oct 2019 5:05 Operator: RLD-DGS
Sample : CALIB. PT.9 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:34 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:27 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.65	96	1439859	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.58	117	1157216	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	604485	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.82	113	376601	1.000	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.23	102	90816	0.975	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
61) SURRd8Tolule	9.66	98	1474258	1.006	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
83) SURR4BrFBenz	13.23	95	584391	1.005	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	1716569	3.6765	mg/kg	99
3) Chloromethan	2.07	50	2360644	3.3681	mg/kg	100
4) VinylChlorid	2.21	62	1896419	3.7212	mg/kg	98
5) Bromomethane	2.66	94	460434	3.1982	mg/kg	100
6) Chloroethane	2.79	64	368395	3.2228	mg/kg	91
7) dichloroflmethane	3.09	67	747977	2.6572	mg/kg#	72
8) Trichlorofma	3.13	101	1520436	4.1109	mg/kg	97
9) Ethylether	3.66	59	1284285	3.6656	mg/kg	98
10) dichlorotfluoroethan	3.66	67	1574045	3.8216	mg/kg	99
11) propyleneoxide	3.72	58	3544601	38.0757	mg/kg	99
12) Acrolein	3.83	56	739320	19.5517	mg/kg	99
13) 11dichlorthe	3.89	96	1242939	3.7494	mg/kg	97
14) Trichlorotfluoroeth	3.91	101	2161667	7.7444	mg/kg	99
15) Acetone	4.08	43	6512094	45.9600	mg/kg	98
16) Iodomethane	4.08	127	1056283	10.1297	mg/kg	97
17) Carbon Dislf	4.15	76	5999721	7.3511	mg/kg	100
18) allylchloride	4.41	41	5268753	6.5863	mg/kg	98
19) methylacetate	4.51	74	802657	4.6413	mg/kg	93
20) Methylchlorid	4.58	84	1395950	3.1943	mg/kg	96
21) Acrylonitrile	4.95	53	3621914	22.8913	mg/kg	98
22) t12dichlorte	4.94	96	1252566	3.6012	mg/kg	97
23) tbutylalcohol	4.92	59	12015248	172.6110	mg/kg	98
24) MtBE	4.99	73	3675328	3.6260	mg/kg#	74
25) Hexane	5.30	57	4945451	7.3686	mg/kg	98
26) 11dichlorota	5.48	63	2732510	3.6992	mg/kg	99
27) Vinylacetate	5.58	43	18416802	26.5416	mg/kg	87
28) chloroprene	5.60	53	4599005	7.2181	mg/kg	99
29) Diisopether	5.63	45	5134332	3.5890	mg/kg#	38
30) ETBE	6.08	59	4333823	3.7381	mg/kg	98
31) 22dichloropr	6.21	77	1992226	3.5863	mg/kg	97
32) c12dichlorte	6.22	96	1459486	3.7342	mg/kg	98
33) 2Butanone	6.27	72	2117425	43.7034	mg/kg	100
34) propionitrile	6.34	54	3247652	45.8641	mg/kg	98
35) Ethylacetate	6.36	88	292934	23.8758	mg/kg#	84
36) methacrylonitrile	6.52	67	1572852	8.9704	mg/kg	96
37) Bromochlorma	6.52	128	597816	3.5490	mg/kg	98
38) Tetrahydofur	6.60	42	6418730	38.1712	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS9.D Vial: 13
Acq On : 26 Oct 2019 5:05 Operator: RLD-DGS
Sample : CALIB. PT.9 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:34 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:27 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.62	83	2298166	3.6067	mg/kg	99
40)	111trichlota	6.84	97	2078601	3.8395	mg/kg	99
42)	Cyclohexane	6.91	56	2663572	3.8898	mg/kg	99
43)	Carbtetraclo	7.05	119	1814815	4.0056	mg/kg	99
44)	11dicloprope	7.05	110	665816	3.9964	mg/kg	95
46)	Benzene	7.31	78	5187334	3.5990	mg/kg	98
47)	12dichlorota	7.33	62	1996932	3.8714	mg/kg	97
48)	TAME	7.47	73	3734885	3.7808	mg/kg	98
49)	trichloroete	8.12	95	1414270	4.0294	mg/kg	100
50)	methylcyclohexane	8.35	83	2803540	3.9815	mg/kg	99
51)	12dicloropra	8.38	63	1713281	3.9096	mg/kg	97
52)	23dicl1propene	8.46	75	2083954	4.0426	mg/kg	96
53)	Dibromometha	8.54	93	899371	3.9235	mg/kg	98
54)	methylmethacrylate	8.55	69	1102957	4.7632	mg/kg	99
55)	14dioxane	8.60	88	1192774	204.9108	mg/kg	97
56)	Bromodiclrma	8.74	83	1835328	4.1312	mg/kg	99
57)	2Nitropropane	9.02	43	6306319	45.4137	mg/kg	95
58)	2CLEVE	9.13	63	5389567	19.6641	mg/kg	97
59)	c13dicloproe	9.31	75	2399095	4.0845	mg/kg	99
60)	4Meth2Pentan	9.51	43	13657568	27.7817	mg/kg	80
62)	Toluene	9.75	92	3544915	3.7194	mg/kg	93
63)	t13Dicloprop	10.03	75	2171007	4.3704	mg/kg	97
64)	ethylmethacrylate	10.17	69	4129092	8.0902	mg/kg	99
65)	112Triclotha	10.27	83	1094315	3.8096	mg/kg	98
66)	Tetrachlorte	10.48	166	1518143	3.8648	mg/kg	98
67)	13Diclorpropa	10.49	76	2220881	3.9182	mg/kg	99
69)	2Hexanone	10.61	43	11439258	33.5170	mg/kg	86
70)	Clorodibrmta	10.79	129	1434837	4.3063	mg/kg	100
71)	12Dibrometha	10.95	107	1407858	4.0455	mg/kg	99
72)	Chlorobenzen	11.62	112	3629864	3.6643	mg/kg	98
73)	1Clhexane	11.59	91	1908997	3.8799	mg/kg	96
74)	1112Tetclota	11.73	131	1378576	4.0791	mg/kg	98
75)	Ethylbenzene	11.78	91	6135382	3.5794	mg/kg	96
76)	m p-Xylene	11.94	106	4800585	7.4402	mg/kg#	86
77)	o-Xylene	12.49	106	2473502	3.7438	mg/kg	97
78)	Styrene	12.51	104	4092360	3.9808	mg/kg	98
79)	Bromoform	12.76	173	1006302	4.4483	mg/kg	99
80)	Isopropylben	13.01	105	6105244	3.5627	mg/kg	95
82)	cyclohexanone	13.13	55	1958413	76.4033	mg/kg	98
84)	Bromobenzene	13.44	156	1595431	3.8983	mg/kg	99
85)	1122Tetrclta	13.43	83	1941026	3.8230	mg/kg	99
86)	123Triclproa	13.49	75	2524489	4.1247	mg/kg	99
87)	14dichloro2butene	13.51	53	630943	4.0651	mg/kg	90
88)	n-Propylbenz	13.60	91	6934146	3.6044	mg/kg	92
89)	2chlorotolue	13.72	91	4248361	3.6884	mg/kg	96
90)	4chlorotolue	13.87	91	4864225	3.7933	mg/kg	100
91)	135Trimebenz	13.86	105	5148189	3.6446	mg/kg	95
92)	tbutylbenzen	14.32	119	4574260	3.7521	mg/kg	99
93)	124Trimetben	14.39	105	5118160	3.6971	mg/kg	96
94)	sbutylbenzen	14.64	105	6435129	3.6169	mg/kg	96
95)	13Diclorbenz	14.79	146	2934182	3.8126	mg/kg	98
96)	pIsopropylto	14.86	119	5489865	3.7271	mg/kg	96
97)	14dichlorobe	14.92	146	2920207	3.7832	mg/kg	99
98)	12dichlorobe	15.46	146	2745864	3.7727	mg/kg	99
99)	nButylbenzen	15.46	91	5130903	3.8237	mg/kg	95
100)	12dibromo3cl	16.58	157	470716	4.2359	mg/kg	100
101)	135Trichlorobenzene	16.88	180	1993645	4.0272	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\CALS9.D Vial: 13
Acq On : 26 Oct 2019 5:05 Operator: RLD-DGS
Sample : CALIB. PT.9 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:34 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:27 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.70	180	1892126	4.1579	mg/kg	98
103) Hexachlorobu	17.93	225	935907	4.0735	mg/kg	98
104) Naphthalene	18.01	128	4836287	3.9189	mg/kg	98
105) 123Trichlben	18.32	180	1725907	4.1148	mg/kg	99

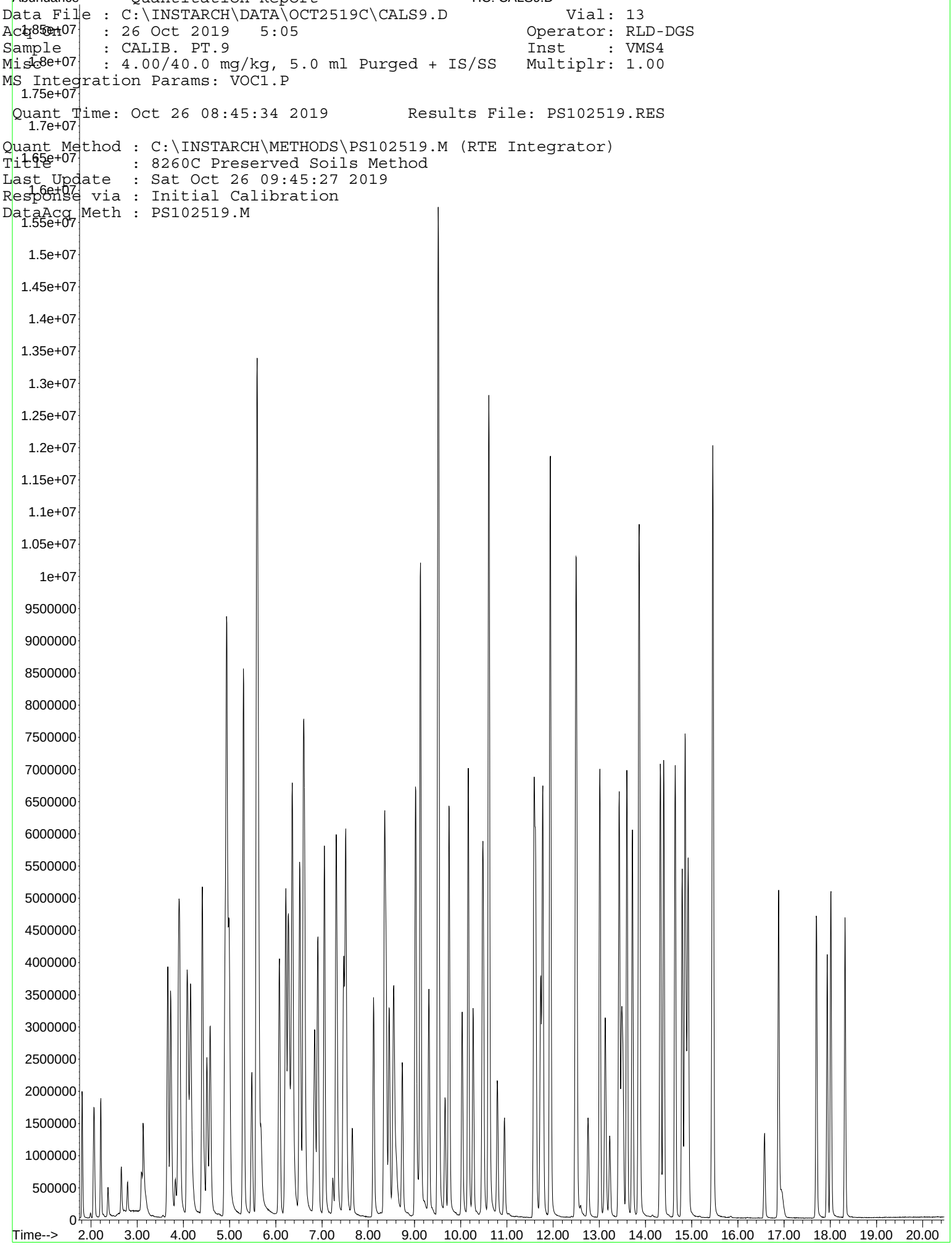
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CALS9.D

Data File : C:\INSTARCH\DATA\OCT2519C\CALS9.D Vial: 13
Acq On : 26 Oct 2019 5:05 Operator: RLD-DGS
Sample : CALIB. PT.9 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 08:45:34 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 09:45:27 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICV1.D Vial: 15
Acq On : 26 Oct 2019 6:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 26 09:18:55 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	98	0.00
2	T	Dichlorodi	0.3214	0.2846	11.45	85	0.00
3	PT	Chloromethan	0.4679	0.4183	10.60	95	0.00
4	CT	VinylChlorid	0.3512	0.3127	10.96	84	0.00
5	T	Bromomethane	0.0811	0.0830	-2.34	109	0.00
6	T	Chloroethane	0.0749	0.0640	14.55	94	0.00
7	T	dichloroflmethane	0.1652	0.1240	24.94#	87	0.00
8	T	Trichlorofma	0.2517	0.2216	11.96	86	0.00
9	T	Ethylether	0.2411	0.2076	13.89	87	0.00
10	T	dichlorotfluoroethan	0.2846	0.2656	6.68	93	0.00
11	T	propyleneoxide	0.0643	0.0620	3.58	96	0.00
12	T	Acrolein	0.0238	0.0189	20.59#	79	0.00
13	CT	11dichlorthe	0.2286	0.2063	9.76	92	0.00
14	T	Trichlorotfluoroeth	0.1932	0.1766	8.59	87	0.00
15	T	Acetone	0.1175	0.0966	17.79	91	0.00
16	T	Iodomethane	0.0707	0.0640	9.48	112	0.00
17	T	Carbon Dislf	0.5617	0.4945	11.96	86	0.00
18	T	allylchloride	0.5447	0.5058	7.14	91	0.00
19	T	methylacetate	0.1271	0.1230	3.23	110	0.00
20	T	Methylchlorid	0.2967	0.2380	19.78	91	0.00
21	T	Acrylonitrile	0.1117	0.1077	3.58	90	0.00
22	T	t12dichlorte	0.2389	0.2113	11.55	90	0.00
23	T	tbutylalcohol	0.0476	0.0443	6.93	97	0.00
24	T	MtBE	0.6966	0.6043	13.25	88	0.00
25	T	Hexane	0.4620	0.4182	9.48	86	0.00
26	PT	11dichlorota	0.5087	0.4720	7.21	93	0.00
27	T	Vinylacetate	0.4838	0.4298	11.16	79	-0.04
28	T	chloroprene	0.4377	0.4257	2.74	94	0.00
29	T	Diisopether	0.9822	0.8776	10.65	88	0.00
30	T	ETBE	0.7993	0.6983	12.64	86	0.00
31	T	22dichloropr	0.3814	0.3314	13.11	86	0.00
32	T	c12dichlorte	0.2694	0.2492	7.50	93	0.00
33	T	2Butanone	0.0340	0.0317	6.76	96	0.00
34	T	propionitrile	0.0508	0.0477	6.10	95	0.00
35	T	Ethylacetate	0.0090	0.0078#	13.33	81	0.00
36	T	methacrylonitrile	0.1266	0.1178	6.95	93	0.00
37	T	Bromochlorma	0.1155	0.1097	5.02	93	0.00
38	T	Tetrahydofur	0.1162	0.1050	9.64	90	0.00
39	CT	Chloroform	0.4377	0.3910	10.67	93	0.00
40	T	111trichlota	0.3743	0.3492	6.71	93	0.00
41	S	SURRDibrflma	0.2615	0.2698	-3.17	101	0.00
42	T	Cyclohexane	0.4741	0.4352	8.21	87	0.00
43	T	Carbtetraclo	0.3147	0.2872	8.74	91	0.00
44	T	11dicloprope	0.1166	0.1114	4.46	94	0.00
45	S	SURR12DCAd4	0.0645	0.0667	-3.41	104	0.00
46	T	Benzene	0.9899	0.9157	7.50	92	0.00
47	T	12dichlorota	0.3570	0.3189	10.67	92	0.00
48	T	TAME	0.6819	0.5998	12.04	89	0.00

49	T	trichloroete	0.2440	0.2293	6.02	90	0.00
50	T	methylcyclohexane	0.4888	0.4644	4.99	89	0.00
51	CT	12dicloropra	0.3036	0.2868	5.53	95	0.00
52	T	23dicl1propene	0.3585	0.3137	12.50	86	0.00
53	T	Dibromometha	0.1588	0.1413	11.02	92	0.00
54	T	methylmethacrylate	0.1681	0.1398	16.84	83	0.00
55	T	14dioxane	0.0041	0.0036#	12.20	96	0.00
56	T	Bromodiclrma	0.3097	0.2919	5.75	94	0.00
57	T	2Nitropropane	0.0981	0.0870	11.31	92	0.00
58		2CLEVE	0.1900	0.1801	5.21	91	0.00
59	T	c13dicloproe	0.4089	0.3817	6.65	92	0.00
60	T	4Meth2Pentan	0.3298	0.3176	3.70	90	0.00
61	S	SURRd8Tolule	1.0186	1.0595	-4.02	102	0.00
62	CT	Toluene	0.6568	0.5982	8.92	91	0.00
63	T	t13Dicloprop	0.3485	0.3319	4.76	92	0.00
64	T	ethylmethacrylate	0.3550	0.3270	7.89	91	0.00
65	T	112Triclotha	0.1983	0.1750	11.75	88	0.00
66	T	Tetrachlorte	0.2718	0.2536	6.70	91	0.00
67	T	13Diclorpropa	0.3928	0.3535	10.01	90	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	102	0.00
69	T	2Hexanone	0.2896	0.2744	5.25	90	0.00
70	T	Clorodibrmta	0.2904	0.2617	9.88	95	0.00
71	T	12Dibrometha	0.3011	0.2700	10.33	92	0.00
72	PT	Chlorobenzen	0.8480	0.7399	12.75	89	0.00
73	T	1Clhexane	0.4238	0.3617	14.65	86	0.00
74	T	1112Tetclota	0.2928	0.2599	11.24	91	0.00
75	CT	Ethylbenzene	1.4639	1.3282	9.27	92	0.00
76	T	m p-Xylene	0.5532	0.4997	9.67	92	0.00
77	T	o-Xylene	0.5669	0.5115	9.77	92	0.00
78	T	Styrene	0.8879	0.8052	9.31	90	0.00
79	PT	Bromoform	0.1982	0.1766	10.90	97	0.00
80	T	Isopropylben	1.4629	1.3524	7.55	93	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	101	0.00
82	T	cyclohexanone	0.0422	0.0360	14.69	92	0.00
83	S	SURR4BrFBenz	0.9621	0.9733	-1.16	103	0.00
84	T	Bromobenzene	0.6751	0.6104	9.58	92	0.00
85	PT	1122Tetrclta	0.8358	0.7353	12.02	93	0.00
86	T	123Triclproa	1.0165	0.9449	7.04	94	0.00
87	T	14dichloro2butene	0.2573	0.2420	5.95	96	0.01
88	T	n-Propylbenz	3.1476	2.9318	6.86	91	0.00
89	T	2chlorotolue	1.8890	1.7235	8.76	91	0.00
90	T	4chlorotolue	2.1092	1.8886	10.46	90	0.00
91	T	135Trimebenz	2.3137	2.0842	9.92	91	0.00
92	T	tbutylbenzen	2.0029	1.8285	8.71	92	0.00
93	T	124Trimetben	2.2709	2.0460	9.90	91	0.00
94	T	sbutylbenzen	2.9120	2.7014	7.23	92	0.00
95	T	13Diclorbenz	1.2665	1.1240	11.25	91	0.00
96	T	pIsopropylto	2.4182	2.2360	7.53	91	0.00
97	T	14dichlorobe	1.2693	1.1042	13.01	92	0.00
98	T	12dichlorobe	1.1964	1.0532	11.97	92	0.00
99	T	nButylbenzen	2.2090	1.9836	10.20	89	0.00
100	T	12dibromo3cl	0.1852	0.1623	12.37	97	0.00
101	T	135Trichlorobenzene	0.8196	0.7023	14.31	86	0.00
102	T	124Trichlobe	0.7561	0.6784	10.28	93	0.00
103	T	Hexachlorobu	0.3809	0.3420	10.21	95	0.00
104	T	Naphthalene	2.0370	1.8483	9.26	95	0.00
105	T	123Trichlben	0.6961	0.6346	8.83	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Nov 19 08:49:03 2019

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICV1.D Vial: 15
Acq On : 26 Oct 2019 6:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 26 09:18:55 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	98	0.00
2	T	Dichlorodi	0.5000	0.4428	11.44	85	0.00
3	PT	Chloromethan	0.5000	0.4470	10.60	95	0.00
4	CT	VinylChlorid	0.5000	0.4452	10.96	84	0.00
5	T	Bromomethane	0.5000	0.6023	-20.46#	109	0.00
6	T	Chloroethane	0.5000	0.4275	14.50	94	0.00
7	T	dichloroflmethane	0.5000	0.4255	14.90	87	0.00
8	T	Trichlorofma	0.5000	0.4401	11.98	86	0.00
9	T	Ethylether	0.5000	0.4306	13.88	87	0.00
10	T	dichlorotfluoroethan	0.5000	0.4665	6.70	93	0.00
11	T	propyleneoxide	5.0000	4.8190	3.62	96	0.00
12	T	Acrolein	2.5000	1.9847	20.61#	79	0.00
13	CT	11dichlorthe	0.5000	0.4511	9.78	92	0.00
14	T	Trichlorotfluoroeth	1.0000	0.9143	8.57	87	0.00
15	T	Acetone	5.0000	4.1109	17.78	91	0.00
16	T	Iodomethane	1.0000	0.8740	12.60	112	0.00
17	T	Carbon Dislf	1.0000	0.8803	11.97	86	0.00
18	T	allylchloride	1.0000	0.9287	7.13	91	0.00
19	T	methylacetate	0.5000	0.4841	3.18	110	0.00
20	T	Methylchlorid	0.5000	0.4420	11.60	91	0.00
21	T	Acrylonitrile	2.5000	2.1614	13.54	90	0.00
22	T	t12dichlorte	0.5000	0.4422	11.56	90	0.00
23	T	tbutylalcohol	25.0000	23.2883	6.85	97	0.00
24	T	MtBE	0.5000	0.4337	13.26	88	0.00
25	T	Hexane	1.0000	0.9050	9.50	86	0.00
26	PT	11dichlorota	0.5000	0.4639	7.22	93	0.00
27	T	Vinylacetate	5.0000	4.4419	11.16	79	-0.04
28	T	chloroprene	1.0000	0.9727	2.73	94	0.00
29	T	Diisopether	0.5000	0.4468	10.64	88	0.00
30	T	ETBE	0.5000	0.4368	12.64	86	0.00
31	T	22dichloropr	0.5000	0.4345	13.10	86	0.00
32	T	c12dichlorte	0.5000	0.4624	7.52	93	0.00
33	T	2Butanone	5.0000	4.6526	6.95	96	0.00
34	T	propionitrile	5.0000	4.4300	11.40	95	0.00
35	T	Ethylacetate	2.5000	2.0668	17.33	81	0.00
36	T	methacrylonitrile	1.0000	0.9302	6.98	93	0.00
37	T	Bromochlorma	0.5000	0.4746	5.08	93	0.00
38	T	Tetrahydofur	5.0000	4.5183	9.63	90	0.00
39	CT	Chloroform	0.5000	0.4466	10.68	93	0.00
40	T	111trichlota	0.5000	0.4664	6.72	93	0.00
41	S	SURRDibrflma	1.0000	1.0318	-3.18	101	0.00
42	T	Cyclohexane	0.5000	0.4589	8.22	87	0.00
43	T	Carbtetraclo	0.5000	0.4564	8.72	91	0.00
44	T	11dicloprope	0.5000	0.4777	4.46	94	0.00
45	S	SURR12DCAd4	1.0000	1.0340	-3.40	104	0.00
46	T	Benzene	0.5000	0.4626	7.48	92	0.00
47	T	12dichlorota	0.5000	0.4466	10.68	92	0.00
48	T	TAME	0.5000	0.4398	12.04	89	0.00

49	T	trichloroete	0.5000	0.4700	6.00	90	0.00
50	T	methylcyclohexane	0.5000	0.4751	4.98	89	0.00
51	CT	12dicloropra	0.5000	0.4723	5.54	95	0.00
52	T	23dicl1propene	0.5000	0.4375	12.50	86	0.00
53	T	Dibromometha	0.5000	0.4447	11.06	92	0.00
54	T	methylmethacrylate	0.5000	0.3982	20.36#	83	0.00
55	T	14dioxane	25.0000	22.2542	10.98	96	0.00
56	T	Bromodiclrma	0.5000	0.4713	5.74	94	0.00
57	T	2Nitropropane	5.0000	4.4336	11.33	92	0.00
58		2CLEVE	2.5000	2.3702	5.19	91	0.00
59	T	c13dicloproe	0.5000	0.4667	6.66	92	0.00
60	T	4Meth2Pentan	5.0000	4.8144	3.71	90	0.00
61	S	SURRd8Tolule	1.0000	1.0402	-4.02	102	0.00
62	CT	Toluene	0.5000	0.4554	8.92	91	0.00
63	T	t13Dicloprop	0.5000	0.4762	4.76	92	0.00
64	T	ethylmethacrylate	1.0000	0.9212	7.88	91	0.00
65	T	112Triclotha	0.5000	0.4412	11.76	88	0.00
66	T	Tetrachlorte	0.5000	0.4665	6.70	91	0.00
67	T	13Diclorpropa	0.5000	0.4500	10.00	90	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	102	0.00
69	T	2Hexanone	5.0000	4.7366	5.27	90	0.00
70	T	Clorodibrmta	0.5000	0.4507	9.86	95	0.00
71	T	12Dibrometha	0.5000	0.4484	10.32	92	0.00
72	PT	Chlorobenzen	0.5000	0.4362	12.76	89	0.00
73	T	1Clhexane	0.5000	0.4268	14.64	86	0.00
74	T	1112Tetclota	0.5000	0.4439	11.22	91	0.00
75	CT	Ethylbenzene	0.5000	0.4536	9.28	92	0.00
76	T	m p-Xylene	1.0000	0.9033	9.67	92	0.00
77	T	o-Xylene	0.5000	0.4512	9.76	92	0.00
78	T	Styrene	0.5000	0.4534	9.32	90	0.00
79	PT	Bromoform	0.5000	0.4455	10.90	97	0.00
80	T	Isopropylben	0.5000	0.4622	7.56	93	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	101	0.00
82	T	cyclohexanone	10.0000	8.5420	14.58	92	0.00
83	S	SURR4BrFBenz	1.0000	1.0116	-1.16	103	0.00
84	T	Bromobenzene	0.5000	0.4521	9.58	92	0.00
85	PT	1122Tetrclta	0.5000	0.4399	12.02	93	0.00
86	T	123Triclproa	0.5000	0.4648	7.04	94	0.00
87	T	14dichloro2butene	0.5000	0.4703	5.94	96	0.01
88	T	n-Propylbenz	0.5000	0.4657	6.86	91	0.00
89	T	2chlorotolue	0.5000	0.4562	8.76	91	0.00
90	T	4chlorotolue	0.5000	0.4477	10.46	90	0.00
91	T	135Trimebenz	0.5000	0.4504	9.92	91	0.00
92	T	tbutylbenzen	0.5000	0.4565	8.70	92	0.00
93	T	124Trimetben	0.5000	0.4505	9.90	91	0.00
94	T	sbutylbenzen	0.5000	0.4638	7.24	92	0.00
95	T	13Diclorbenz	0.5000	0.4437	11.26	91	0.00
96	T	pIsopropylto	0.5000	0.4623	7.54	91	0.00
97	T	14dichlorobe	0.5000	0.4350	13.00	92	0.00
98	T	12dichlorobe	0.5000	0.4402	11.96	92	0.00
99	T	nButylbenzen	0.5000	0.4490	10.20	89	0.00
100	T	12dibromo3cl	0.5000	0.4381	12.38	97	0.00
101	T	135Trichlorobenzene	0.5000	0.4285	14.30	86	0.00
102	T	124Trichlobe	0.5000	0.4486	10.28	93	0.00
103	T	Hexachlorobu	0.5000	0.4490	10.20	95	0.00
104	T	Naphthalene	0.5000	0.4537	9.26	95	0.00
105	T	123Trichlben	0.5000	0.4559	8.82	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Nov 19 08:49:25 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICV1.D Vial: 15
Acq On : 26 Oct 2019 6:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:18:55 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:18:09 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.65	96	1339284	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.58	117	1116600	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	583705	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	361355	1.032	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103 %			
45) SURR12DCAd4	7.23	102	89307	1.034	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103 %			
61) SURRd8Tolule	9.66	98	1419014	1.040	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 104 %			
83) SURR4BrFBenz	13.23	95	568134	1.012	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	190583	0.4428	mg/kg	99
3) Chloromethan	2.07	50	280087	0.4470	mg/kg	99
4) VinylChlorid	2.21	62	209403	0.4452	mg/kg	97
5) Bromomethane	2.66	94	55604	0.6023	mg/kg	97
6) Chloroethane	2.79	64	42876	0.4275	mg/kg	98
7) dichloroflmethane	3.10	67	83037	0.4255	mg/kg#	54
8) Trichlorofma	3.13	101	148364	0.4401	mg/kg	98
9) Ethylether	3.67	59	139028	0.4306	mg/kg	97
10) dichlorotfluoroethan	3.66	67	177839	0.4665	mg/kg	98
11) propyleneoxide	3.73	58	415052	4.8190	mg/kg	98
12) Acrolein	3.83	56	63335	1.9847	mg/kg	98
13) 11dichlorthe	3.89	96	138134	0.4511	mg/kg	95
14) Trichlorotfluoroeth	3.92	101	236530	0.9143	mg/kg	100
15) Acetone	4.08	43	647060	4.1109	mg/kg	98
16) Iodomethane	4.08	127	85750	0.8740	mg/kg#	97
17) Carbon Dislf	4.15	76	662271	0.8803	mg/kg	100
18) allylchloride	4.41	41	677433	0.9287	mg/kg	98
19) methylacetate	4.51	74	82371	0.4841	mg/kg	99
20) Methylchlorid	4.58	84	159343	0.4420	mg/kg	98
21) Acrylonitrile	4.96	53	360556	2.1614	mg/kg	93
22) t12dichlorte	4.94	96	141480	0.4422	mg/kg	94
23) tbutylalcohol	4.90	59	1484897	23.2883	mg/kg	98
24) MtBE	4.99	73	404641	0.4337	mg/kg	95
25) Hexane	5.30	57	560040	0.9050	mg/kg	99
26) 11dichlorota	5.48	63	316070	0.4639	mg/kg	99
27) Vinylacetate	5.59	43	2878130	4.4419	mg/kg	100
28) chloroprene	5.60	53	570181	0.9727	mg/kg	99
29) Diisopether	5.63	45	587689	0.4468	mg/kg#	82
30) ETBE	6.08	59	467637	0.4368	mg/kg	97
31) 22dichloropr	6.21	77	221917	0.4345	mg/kg	97
32) c12dichlorte	6.23	96	166875	0.4624	mg/kg	95
33) 2Butanone	6.28	72	212099	4.6526	mg/kg	99
34) propionitrile	6.36	54	319119	4.4300	mg/kg	99
35) Ethylacetate	6.37	88	26116	2.0668	mg/kg#	79
36) methacrylonitrile	6.52	67	157773	0.9302	mg/kg	97
37) Bromochlorma	6.52	128	73429	0.4746	mg/kg	99
38) Tetrahydofur	6.61	42	703119	4.5183	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICV1.D Vial: 15
Acq On : 26 Oct 2019 6:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:18:55 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:18:09 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.62	83	261802	0.4466	mg/kg	99
40)	111trichlota	6.84	97	233826	0.4664	mg/kg	98
42)	Cyclohexane	6.91	56	291415	0.4589	mg/kg	98
43)	Carbtetraclo	7.06	119	192347	0.4564	mg/kg	93
44)	11dicloprope	7.06	110	74573	0.4777	mg/kg	94
46)	Benzene	7.31	78	613207	0.4626	mg/kg	99
47)	12dichlorota	7.34	62	213517	0.4466	mg/kg	99
48)	TAME	7.47	73	401668	0.4398	mg/kg	99
49)	trichloroete	8.12	95	153573	0.4700	mg/kg	100
50)	methylcyclohexane	8.35	83	311006	0.4751	mg/kg	96
51)	12dicloropra	8.39	63	192033	0.4723	mg/kg	99
52)	23dicl1propene	8.46	75	210055	0.4375	mg/kg	99
53)	Dibromometha	8.54	93	94598	0.4447	mg/kg	99
54)	methylmethacrylate	8.57	69	93615	0.3982	mg/kg	96
55)	14dioxane	8.60	88	120862	22.2542	mg/kg	99
56)	Bromodiclrma	8.74	83	195464	0.4713	mg/kg	99
57)	2Nitropropane	9.02	43	582349	4.4336	mg/kg	100
58)	2CLEVE	9.13	63	602976	2.3702	mg/kg	97
59)	c13dicloproe	9.32	75	255581	0.4667	mg/kg	100
60)	4Meth2Pentan	9.51	43	2126715	4.8144	mg/kg	99
62)	Toluene	9.75	92	400565	0.4554	mg/kg	99
63)	t13Dicloprop	10.04	75	222279	0.4762	mg/kg	99
64)	ethylmethacrylate	10.17	69	437928	0.9212	mg/kg	99
65)	112Triclotha	10.27	83	117170	0.4412	mg/kg	96
66)	Tetrachlorte	10.48	166	169806	0.4665	mg/kg	98
67)	13Diclorpropa	10.49	76	236704	0.4500	mg/kg	98
69)	2Hexanone	10.62	43	1531763	4.7366	mg/kg	99
70)	Clorodibrmta	10.80	129	146128	0.4507	mg/kg	99
71)	12Dibrometha	10.94	107	150756	0.4484	mg/kg	100
72)	Chlorobenzen	11.63	112	413088	0.4362	mg/kg	98
73)	1Clhexane	11.60	91	201939	0.4268	mg/kg	98
74)	1112Tetclota	11.73	131	145101	0.4439	mg/kg	99
75)	Ethylbenzene	11.78	91	741510	0.4536	mg/kg	100
76)	m p-Xylene	11.94	106	557972	0.9033	mg/kg	100
77)	o-Xylene	12.49	106	285596	0.4512	mg/kg	98
78)	Styrene	12.51	104	449536	0.4534	mg/kg	100
79)	Bromoform	12.77	173	98602	0.4455	mg/kg	99
80)	Isopropylben	13.01	105	755031	0.4622	mg/kg	100
82)	cyclohexanone	13.13	55	210239	8.5420	mg/kg	100
84)	Bromobenzene	13.44	156	178153	0.4521	mg/kg	99
85)	1122Tetrclta	13.42	83	214591	0.4399	mg/kg	99
86)	123Triclproa	13.49	75	275758	0.4648	mg/kg	97
87)	14dichloro2butene	13.52	53	70634	0.4703	mg/kg	96
88)	n-Propylbenz	13.60	91	855662	0.4657	mg/kg	97
89)	2chlorotolue	13.72	91	503007	0.4562	mg/kg	100
90)	4chlorotolue	13.88	91	551204	0.4477	mg/kg	97
91)	135Trimebenz	13.86	105	608290	0.4504	mg/kg	98
92)	tbutylbenzen	14.33	119	533645	0.4565	mg/kg	99
93)	124Trimetben	14.40	105	597118	0.4505	mg/kg	99
94)	sbutylbenzen	14.64	105	788399	0.4638	mg/kg	99
95)	13Diclorbenz	14.79	146	328037	0.4437	mg/kg	99
96)	pIsopropylto	14.86	119	652592	0.4623	mg/kg	99
97)	14dichlorobe	14.93	146	322254	0.4350	mg/kg	98
98)	12dichlorobe	15.47	146	307389	0.4402	mg/kg	99
99)	nButylbenzen	15.46	91	578915	0.4490	mg/kg	98
100)	12dibromo3cl	16.58	157	47362	0.4381	mg/kg	99
101)	135Trichlorobenzene	16.89	180	204982	0.4285	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICV1.D Vial: 15
Acq On : 26 Oct 2019 6:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:18:55 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:18:09 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.70	180	197999	0.4486	mg/kg	99
103)	Hexachlorobu	17.94	225	99815	0.4490	mg/kg	97
104)	Naphthalene	18.02	128	539432	0.4537	mg/kg	99
105)	123Trichlben	18.32	180	185220	0.4559	mg/kg	98

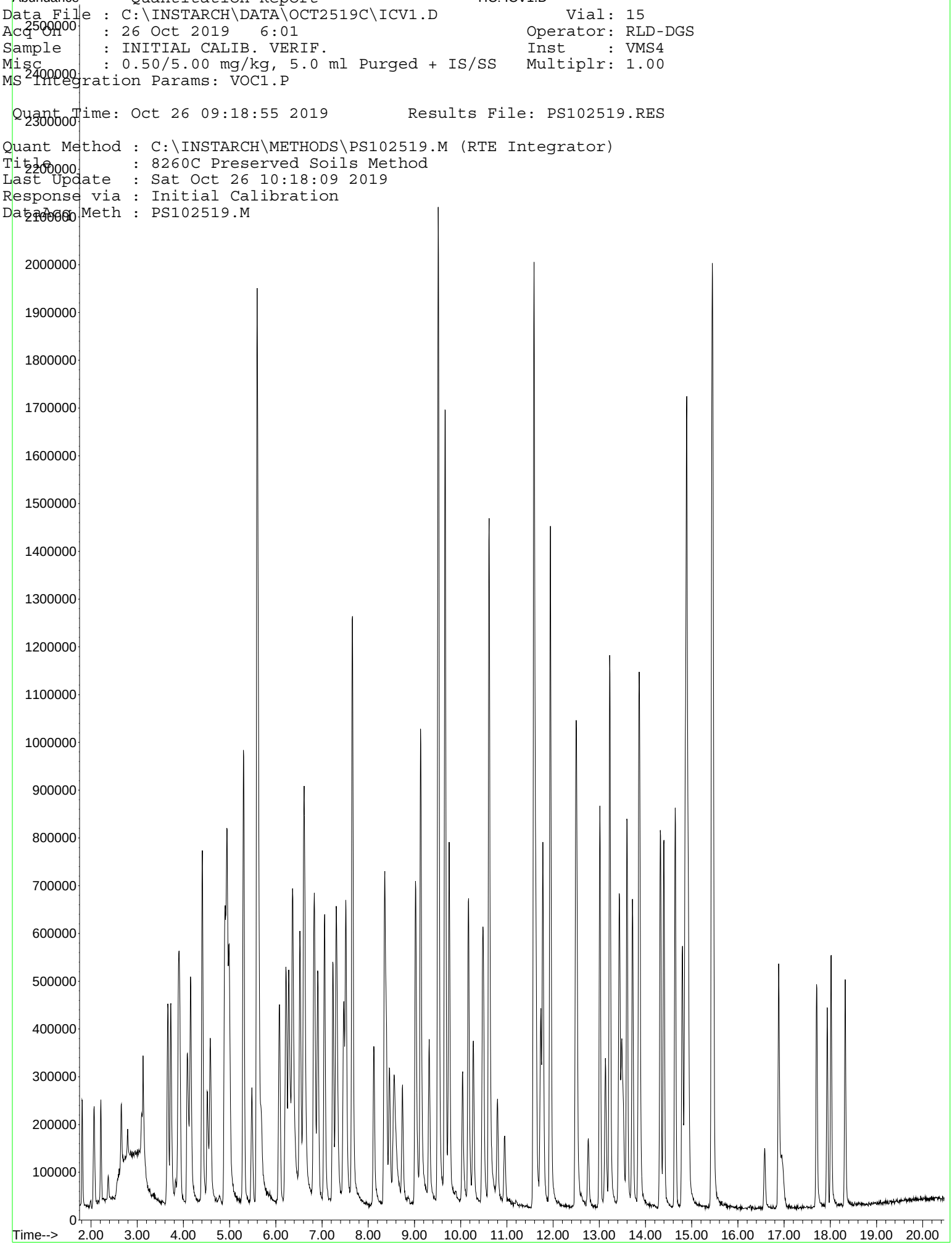
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV1.D

Data File : C:\INSTARCH\DATA\OCT2519C\ICV1.D Vial: 15
Acq On : 26 Oct 2019 6:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:18:55 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:18:09 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICV2.D Vial: 16
Acq On : 26 Oct 2019 6:29 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 26 09:20:16 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	100	0.00
2	T	Dichlorodi	1.5000	1.4117	5.89	91	0.00
3	PT	Chloromethan	1.5000	1.3675	8.83	98	0.00
4	CT	VinylChlorid	1.5000	1.4624	2.51	95	0.00
5	T	Bromomethane	1.5000	1.5240	-1.60	101	0.00
6	T	Chloroethane	1.5000	1.3238	11.75	94	0.00
7	T	dichloroflmethane	1.5000	1.5749	-4.99	113	0.00
8	T	Trichlorofma	1.5000	1.6468	-9.79	118	0.00
9	T	Ethylether	1.5000	1.3833	7.78	95	0.00
10	T	dichlorotfluoroethan	1.5000	1.4905	0.63	94	0.00
11	T	propyleneoxide	15.0000	15.2089	-1.39	99	0.00
12	T	Acrolein	7.5000	6.9277	7.63	95	0.00
13	CT	11dichlorthe	1.5000	1.3835	7.77	91	0.00
14	T	Trichlorotfluoroeth	3.0000	2.8684	4.39	90	0.00
15	T	Acetone	15.0000	14.6848	2.10	98	0.00
16	T	Iodomethane	3.0000	2.4595	18.02	79	0.00
17	T	Carbon Dislf	3.0000	2.7954	6.82	93	0.00
18	T	allylchloride	3.0000	2.9144	2.85	99	0.00
19	T	methylacetate	1.5000	1.7716	-18.11	94	-0.01
20	T	Methylchlorid	1.5000	1.4525	3.17	96	0.00
21	T	Acrylonitrile	7.5000	7.2744	3.01	97	-0.01
22	T	t12dichlorte	1.5000	1.4090	6.07	95	0.00
23	T	tbutylalcohol	75.0000	75.7171	-0.96	104	0.00
24	T	MtBE	1.5000	1.3771	8.19	94	0.00
25	T	Hexane	3.0000	2.8602	4.66	92	0.00
26	PT	11dichlorota	1.5000	1.4386	4.09	94	0.00
27	T	Vinylacetate	15.0000	13.3851	10.77	97	-0.04
28	T	chloroprene	3.0000	2.9898	0.34	96	0.00
29	T	Diisopether	1.5000	1.4239	5.07	95	0.00
30	T	ETBE	1.5000	1.4224	5.17	93	0.00
31	T	22dichloropr	1.5000	1.3847	7.69	93	0.00
32	T	c12dichlorte	1.5000	1.4588	2.75	97	0.00
33	T	2Butanone	15.0000	15.6177	-4.12	94	-0.01
34	T	propionitrile	15.0000	14.8598	0.93	99	-0.01
35	T	Ethylacetate	7.5000	7.6793	-2.39	100	-0.01
36	T	methacrylonitrile	3.0000	3.1090	-3.63	95	0.00
37	T	Bromochlorma	1.5000	1.4987	0.09	102	0.00
38	T	Tetrahydofur	15.0000	15.0555	-0.37	97	-0.01
39	CT	Chloroform	1.5000	1.4280	4.80	98	0.00
40	T	111trichlota	1.5000	1.4943	0.38	97	0.00
41	S	SURRDibrflma	1.0000	0.9784	2.16	97	0.00
42	T	Cyclohexane	1.5000	1.4564	2.91	92	0.00
43	T	Carbtetraclo	1.5000	1.4967	0.22	96	0.00
44	T	11dicloprope	1.5000	1.4990	0.07	94	0.00
45	S	SURR12DCAd4	1.0000	0.9744	2.56	89	0.00
46	T	Benzene	1.5000	1.4480	3.47	96	0.00
47	T	12dichlorota	1.5000	1.4855	0.97	99	0.00
48	T	TAME	1.5000	1.4386	4.09	95	0.00

49	T	trichloroete	1.5000	1.5422	-2.81	95	0.00
50	T	methylcyclohexane	1.5000	1.5539	-3.59	96	0.00
51	CT	12dicloropra	1.5000	1.5092	-0.61	97	0.00
52	T	23dicl1propene	1.5000	1.4490	3.40	92	0.00
53	T	Dibromometha	1.5000	1.4915	0.57	100	0.00
54	T	methylmethacrylate	1.5000	1.4325	4.50	95	0.00
55	T	14dioxane	75.0000	77.1373	-2.85	100	0.00
56	T	Bromodiclrma	1.5000	1.5237	-1.58	97	0.00
57	T	2Nitropropane	15.0000	16.3670	-9.11	98	0.00
58		2CLEVE	7.5000	7.9331	-5.77	99	0.00
59	T	c13dicloproe	1.5000	1.5459	-3.06	98	0.00
60	T	4Meth2Pentan	15.0000	14.5883	2.74	97	0.00
61	S	SURRd8Tolule	1.0000	0.9821	1.79	99	0.00
62	CT	Toluene	1.5000	1.4629	2.47	97	0.00
63	T	t13Dicloprop	1.5000	1.6088	-7.25	97	0.00
64	T	ethylmethacrylate	3.0000	3.2263	-7.54	100	0.00
65	T	112Triclotha	1.5000	1.4635	2.43	97	0.00
66	T	Tetrachlorte	1.5000	1.4850	1.00	97	0.00
67	T	13Diclorpropa	1.5000	1.5390	-2.60	100	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	99	0.00
69	T	2Hexanone	15.0000	16.2164	-8.11	97	0.00
70	T	Clorodibrmta	1.5000	1.5678	-4.52	99	0.00
71	T	12Dibrometha	1.5000	1.5440	-2.93	99	0.00
72	PT	Chlorobenzen	1.5000	1.4719	1.87	98	0.00
73	T	1Clhexane	1.5000	1.4429	3.81	95	0.00
74	T	1112Tetclota	1.5000	1.5117	-0.78	96	0.00
75	CT	Ethylbenzene	1.5000	1.4825	1.17	95	0.00
76	T	m p-Xylene	3.0000	3.0206	-0.69	96	0.00
77	T	o-Xylene	1.5000	1.4813	1.25	97	0.00
78	T	Styrene	1.5000	1.5635	-4.23	98	0.00
79	PT	Bromoform	1.5000	1.5866	-5.77	102	0.00
80	T	Isopropylben	1.5000	1.4921	0.53	96	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	98	0.00
82	T	cyclohexanone	30.0000	30.2851	-0.95	102	0.00
83	S	SURR4BrFBenz	1.0000	1.0068	-0.68	99	0.00
84	T	Bromobenzene	1.5000	1.5243	-1.62	99	0.00
85	PT	1122Tetrclta	1.5000	1.4975	0.17	99	0.00
86	T	123Triclproa	1.5000	1.6427	-9.51	100	0.00
87	T	14dichloro2butene	1.5000	1.5589	-3.93	101	0.00
88	T	n-Propylbenz	1.5000	1.5492	-3.28	96	0.00
89	T	2chlorotolue	1.5000	1.5252	-1.68	99	0.00
90	T	4chlorotolue	1.5000	1.5290	-1.93	97	0.00
91	T	135Trimebenz	1.5000	1.4992	0.05	97	0.00
92	T	tbutylbenzen	1.5000	1.5128	-0.85	97	0.00
93	T	124Trimetben	1.5000	1.5214	-1.43	97	0.00
94	T	sbutylbenzen	1.5000	1.5330	-2.20	97	0.00
95	T	13Diclorbenz	1.5000	1.5126	-0.84	99	0.00
96	T	pIsopropylto	1.5000	1.5367	-2.45	97	0.00
97	T	14dichlorobe	1.5000	1.5037	-0.25	99	0.00
98	T	12dichlorobe	1.5000	1.5064	-0.43	100	0.00
99	T	nButylbenzen	1.5000	1.5494	-3.29	97	0.00
100	T	12dibromo3cl	1.5000	1.5679	-4.53	102	0.00
101	T	135Trichlorobenzene	1.5000	1.5261	-1.74	97	0.00
102	T	124Trichlobe	1.5000	1.5989	-6.59	102	0.00
103	T	Hexachlorobu	1.5000	1.5605	-4.03	102	0.00
104	T	Naphthalene	1.5000	1.5873	-5.82	101	0.00
105	T	123Trichlben	1.5000	1.6004	-6.69	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Nov 19 08:50:05 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICV2.D Vial: 16
Acq On : 26 Oct 2019 6:29 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:20:16 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:19:51 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.65	96	1385981	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.58	117	1108481	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	576798	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	354619	0.978	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
45) SURR12DCAd4	7.23	102	87094	0.974	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
61) SURRd8Tolule	9.66	98	1386439	0.982	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	558722	1.007	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	628754	1.4117	mg/kg	98
3) Chloromethan	2.06	50	886835	1.3675	mg/kg	100
4) VinylChlorid	2.21	62	711824	1.4624	mg/kg	99
5) Bromomethane	2.66	94	145176	1.5240	mg/kg	98
6) Chloroethane	2.79	64	137390	1.3238	mg/kg	91
7) dichloroflmethane	3.09	67	297381	1.5749	mg/kg#	73
8) Trichlorofma	3.13	101	574501	1.6468	mg/kg	96
9) Ethylether	3.66	59	462187	1.3833	mg/kg	98
10) dichlorotfluoroethan	3.66	67	588001	1.4905	mg/kg	97
11) propyleneoxide	3.72	58	1355587	15.2089	mg/kg	99
12) Acrolein	3.83	56	228781	6.9277	mg/kg	93
13) 11dichlorthe	3.89	96	438416	1.3835	mg/kg	99
14) Trichlorotfluoroeth	3.92	101	767959	2.8684	mg/kg	98
15) Acetone	4.08	43	2391960	14.6848	mg/kg	100
16) Iodomethane	4.09	127	282547	2.4595	mg/kg	99
17) Carbon Dislf	4.15	76	2176352	2.7954	mg/kg	99
18) allylchloride	4.40	41	2200095	2.9144	mg/kg	99
19) methylacetate	4.51	74	311983	1.7716	mg/kg	92
20) Methylchlorid	4.58	84	520158	1.4525	mg/kg	97
21) Acrylonitrile	4.95	53	1299354	7.2744	mg/kg	99
22) t12dichlorte	4.94	96	466526	1.4090	mg/kg	96
23) tbutylalcohol	4.91	59	4996158	75.7171	mg/kg	97
24) MtBE	4.99	73	1329621	1.3771	mg/kg#	74
25) Hexane	5.30	57	1831570	2.8602	mg/kg	100
26) 11dichlorota	5.48	63	1014347	1.4386	mg/kg	99
27) Vinylacetate	5.58	43	8975347	13.3851	mg/kg	98
28) chloroprene	5.60	53	1813716	2.9898	mg/kg	99
29) Diisopether	5.63	45	1938409	1.4239	mg/kg#	73
30) ETBE	6.08	59	1575810	1.4224	mg/kg	99
31) 22dichloropr	6.21	77	731921	1.3847	mg/kg	98
32) c12dichlorte	6.22	96	544782	1.4588	mg/kg	98
33) 2Butanone	6.27	72	736789	15.6177	mg/kg	97
34) propionitrile	6.35	54	1175368	14.8598	mg/kg	99
35) Ethylacetate	6.36	88	106558	7.6793	mg/kg	96
36) methacrylonitrile	6.52	67	545702	3.1090	mg/kg	96
37) Bromochlorma	6.51	128	239960	1.4987	mg/kg	98
38) Tetrahydofur	6.60	42	2424562	15.0555	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICV2.D Vial: 16
Acq On : 26 Oct 2019 6:29 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:20:16 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:19:51 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.62	83	866323	1.4280	mg/kg	100
40)	111trichlota	6.84	97	775231	1.4943	mg/kg	98
42)	Cyclohexane	6.91	56	957046	1.4564	mg/kg	99
43)	Carbtetraclo	7.05	119	652835	1.4967	mg/kg	100
44)	11dicloprope	7.06	110	242178	1.4990	mg/kg	97
46)	Benzene	7.31	78	1986569	1.4480	mg/kg	100
47)	12dichlorota	7.33	62	734953	1.4855	mg/kg	98
48)	TAME	7.47	73	1359648	1.4386	mg/kg	99
49)	trichloroete	8.11	95	521447	1.5422	mg/kg	100
50)	methylcyclohexane	8.35	83	1052694	1.5539	mg/kg	99
51)	12dicloropra	8.39	63	635023	1.5092	mg/kg	100
52)	23dicl1propene	8.46	75	719968	1.4490	mg/kg	97
53)	Dibromometha	8.54	93	328322	1.4915	mg/kg	97
54)	methylmethacrylate	8.56	69	371293	1.4325	mg/kg	100
55)	14dioxane	8.60	88	433537	77.1373	mg/kg	98
56)	Bromodiclrma	8.74	83	653968	1.5237	mg/kg	99
57)	2Nitropropane	9.02	43	2224755	16.3670	mg/kg	97
58)	2CLEVE	9.13	63	2088559	7.9331	mg/kg	99
59)	c13dicloproe	9.31	75	876059	1.5459	mg/kg	98
60)	4Meth2Pentan	9.51	43	6669007	14.5883	mg/kg	96
62)	Toluene	9.75	92	1331669	1.4629	mg/kg	98
63)	t13Dicloprop	10.04	75	777179	1.6088	mg/kg	97
64)	ethylmethacrylate	10.17	69	1587247	3.2263	mg/kg	99
65)	112Triclotha	10.27	83	402241	1.4635	mg/kg	98
66)	Tetrachlorte	10.48	166	559370	1.4850	mg/kg	98
67)	13Diclorpropa	10.49	76	837783	1.5390	mg/kg	99
69)	2Hexanone	10.61	43	5206042	16.2164	mg/kg	98
70)	Clorodibrmta	10.79	129	504635	1.5678	mg/kg	99
71)	12Dibrometha	10.95	107	515352	1.5440	mg/kg	100
72)	Chlorobenzen	11.63	112	1383630	1.4719	mg/kg	99
73)	1Clhexane	11.59	91	677767	1.4429	mg/kg	95
74)	1112Tetclota	11.73	131	490580	1.5117	mg/kg	98
75)	Ethylbenzene	11.78	91	2405636	1.4825	mg/kg	99
76)	m p-Xylene	11.94	106	1852351	3.0206	mg/kg	97
77)	o-Xylene	12.49	106	930772	1.4813	mg/kg	97
78)	Styrene	12.51	104	1538781	1.5635	mg/kg	99
79)	Bromoform	12.76	173	348622	1.5866	mg/kg	100
80)	Isopropylben	13.01	105	2419464	1.4921	mg/kg	99
82)	cyclohexanone	13.13	55	736566	30.2851	mg/kg	99
84)	Bromobenzene	13.44	156	593586	1.5243	mg/kg	99
85)	1122Tetrclta	13.43	83	721917	1.4975	mg/kg	99
86)	123Triclproa	13.49	75	963116	1.6427	mg/kg	97
87)	14dichloro2butene	13.51	53	231338	1.5589	mg/kg	93
88)	n-Propylbenz	13.60	91	2812498	1.5492	mg/kg	97
89)	2chlorotolue	13.72	91	1661792	1.5252	mg/kg	100
90)	4chlorotolue	13.88	91	1860132	1.5290	mg/kg	99
91)	135Trimebenz	13.86	105	2000840	1.4992	mg/kg	98
92)	tbutylbenzen	14.32	119	1747673	1.5128	mg/kg	99
93)	124Trimetben	14.39	105	1992813	1.5214	mg/kg	99
94)	sbutylbenzen	14.64	105	2574878	1.5330	mg/kg	100
95)	13Diclorbenz	14.79	146	1105020	1.5126	mg/kg	100
96)	pIsopropylto	14.86	119	2143397	1.5367	mg/kg	99
97)	14dichlorobe	14.93	146	1100867	1.5037	mg/kg	98
98)	12dichlorobe	15.46	146	1039539	1.5064	mg/kg	98
99)	nButylbenzen	15.46	91	1974143	1.5494	mg/kg	99
100)	12dibromo3cl	16.58	157	167484	1.5679	mg/kg	100
101)	135Trichlorobenzene	16.88	180	721410	1.5261	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICV2.D Vial: 16
Acq On : 26 Oct 2019 6:29 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:20:16 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:19:51 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.70	180	697325	1.5989	mg/kg	99
103)	Hexachlorobu	17.93	225	342811	1.5605	mg/kg	97
104)	Naphthalene	18.01	128	1864999	1.5873	mg/kg	99
105)	123Trichlben	18.32	180	642579	1.6004	mg/kg	100

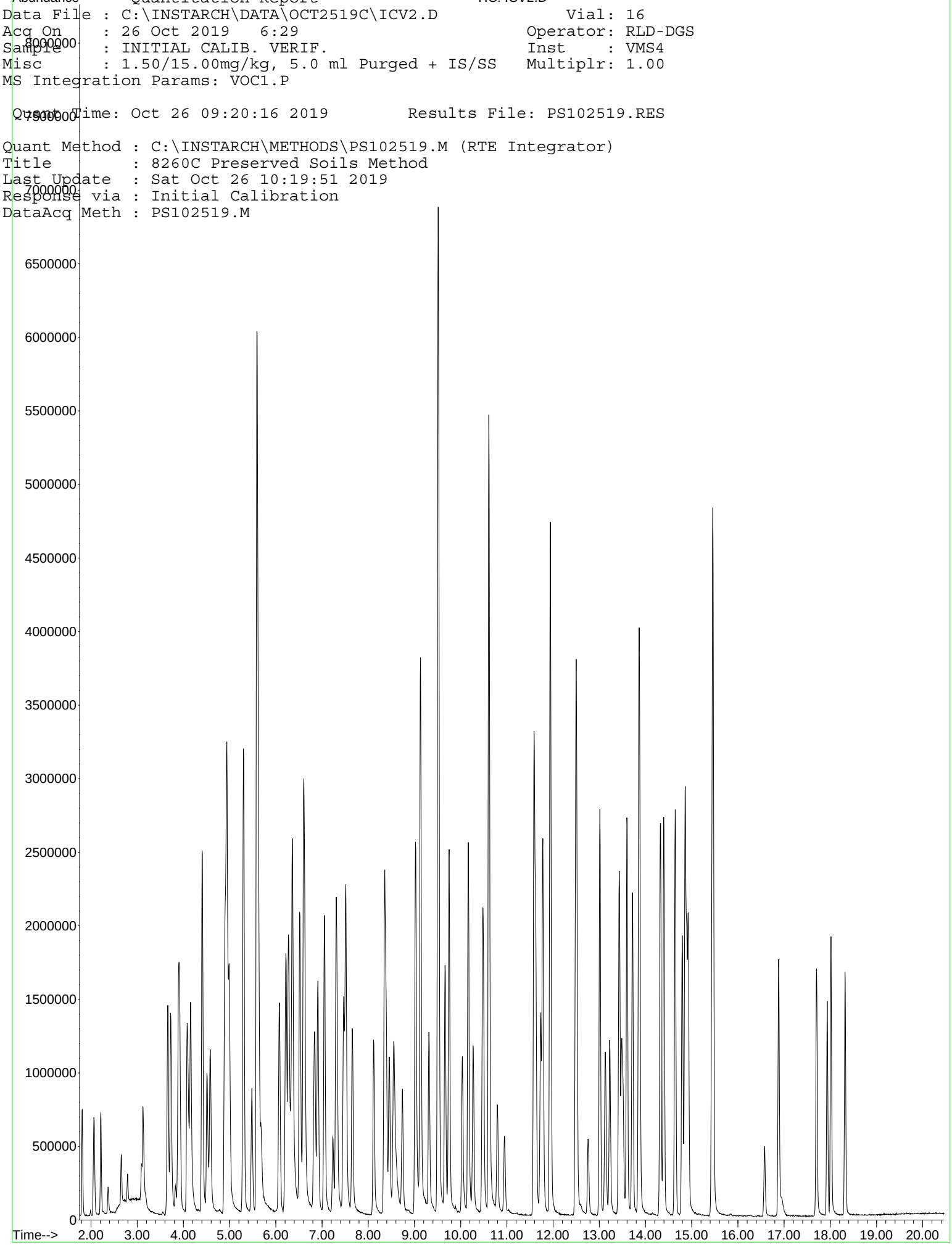
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV2.D

Data File : C:\INSTARCH\DATA\OCT2519C\ICV2.D Vial: 16
Acq On : 26 Oct 2019 6:29 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:20:16 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:19:51 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICB1.D Vial: 18
Acq On : 26 Oct 2019 7:25 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:20:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:19:51 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1365686	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	1109681	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	580846	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	359032	1.005	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	89120	1.012	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
61) SURRd8Tolule	9.67	98	1397633	1.005	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	557340	0.997	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.04	50	6921	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	4686	Below	Cal	82
6) Chloroethane	2.82	64	1018	N.D.		
7) dichloroflmethane	3.08	67	2327	Below	Cal #	55
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	3.62	67	1117	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.74	56	2214	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.12	43	2666	N.D.		
16) Iodomethane	4.09	127	7203	0.1882	mg/kg	94
17) Carbon Dislf	4.18	76	3243	N.D.		
18) allylchloride	4.45	41	1392	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	3699	Below	Cal #	54
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	1072	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.32	57	1115	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.59	43	1621	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.68	45	1000	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	6.25	77	2617	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICB1.D Vial: 18
Acq On : 26 Oct 2019 7:25 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:20:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:19:51 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.12	95	1832	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	8.41	75	1010	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.06	43	1739	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.58	43	1142	N.D.	
62)	Toluene	9.67	92	1166	N.D.	
63)	t13Dicloprop	10.10	75	1077	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.66	43	1110	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.59	91	2833	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	11.80	91	2018	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	13.02	105	1953	N.D.	
82)	cyclohexanone	13.23	55	1303	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	13.44	83	1023	N.D.	
86)	123Triclproa	13.46	75	1140	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	13.60	91	1207	N.D.	
89)	2chlorotolue	13.74	91	1723	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	13.88	105	1154	N.D.	
92)	tbutylbenzen	14.33	119	1691	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	14.64	105	2974	N.D.	
95)	13Diclorbenz	14.92	146	1057	N.D.	
96)	pIsopropylto	14.87	119	3592	N.D.	
97)	14dichlorobe	14.92	146	1497	N.D.	
98)	12dichlorobe	15.46	146	1565	N.D.	
99)	nButylbenzen	15.46	91	2888	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	16.88	180	1027	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT2519C\ICB1.D Vial: 18
Acq On : 26 Oct 2019 7:25 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:20:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:19:51 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102)	124Trichlobe	17.71	180	2175	N.D.	
103)	Hexachlorobu	0.00	225	0	N.D.	
104)	Naphthalene	18.03	128	8225	N.D.	
105)	123Trichlben	18.32	180	2476	N.D.	

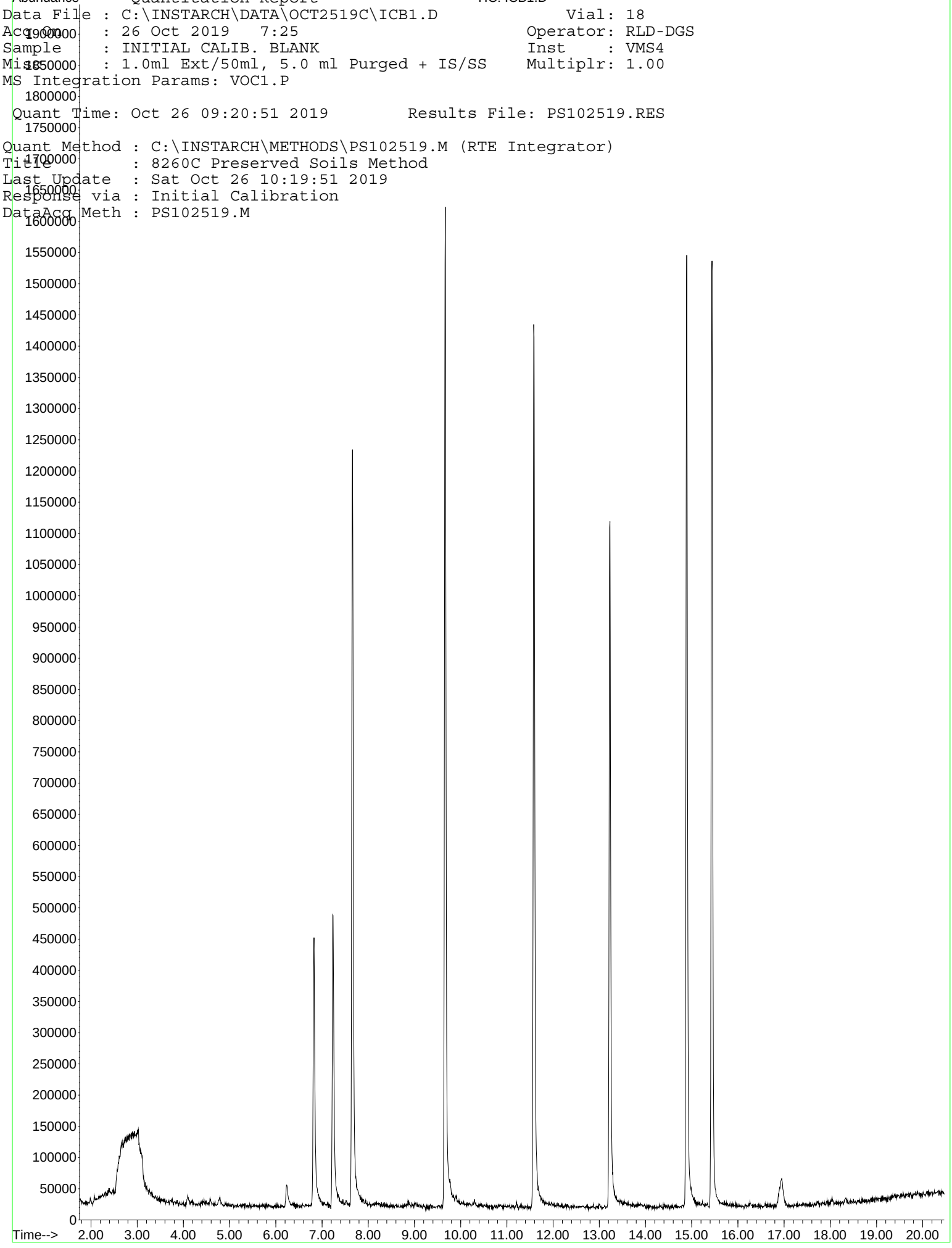
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICB1.D

Data File : C:\INSTARCH\DATA\OCT2519C\ICB1.D Vial: 18
Acq On : 26 Oct 2019 7:25 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 26 09:20:51 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 26 10:19:51 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Method Path : C:\INSTARCH\METHODS\
Method File : W111219.M
Title : 8260C Waters Method
Last Update : Sun Nov 24 09:54:37 2019
Response Via : Initial Calibration

RJ 12/10/2019

Calibration Files ug/L
1 0.500/5.00 =WCAL1.D 2 1.00/10.00 =WCAL2.D 3 2.00/20.00 =WCAL3.D
4 5.00/50.00 =WCAL4.D 5 10.00/100 =WCAL5.D 6 20.00/200 =WCAL6.D
7 30.00/300 =WCAL7.D 8 40.00/400 =WCAL8.D 9 80.00/800 =WCAL9.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
			8	9							
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------								
2)	PT	Dichlorodi	0.221	0.262	0.253	0.241	0.291	0.274	0.271	0.257	8.31
			0.264	0.237							
3)	PT	Chloromethan	0.268	0.272	0.272	0.258	0.249	0.237	0.227	0.247	9.24
			0.230	0.208							
4)	PT	VinylChlorid	0.295	0.321	0.332	0.307	0.335	0.325	0.314	0.313	5.69
			0.313	0.279							
5)	PT	Bromomethane		0.177	0.171	0.195	0.191	0.181	0.171	0.180	4.95
			0.174	0.177							
6)	PT	Chloroethane		0.297	0.291	0.264	0.256	0.246	0.251	0.259	9.40
			0.246	0.224							
7)	T	Dichloroflmetha	0.526	0.455	0.501	0.452	0.465	0.434	0.427	0.451	9.61
			0.424	0.379							
8)	PT	Trichlorofma	0.357	0.427	0.394	0.375	0.447	0.424	0.426	0.405	7.64
			0.421	0.373							
9)	T	Ethylether	0.140	0.202	0.193	0.182	0.188	0.175	0.190	0.181	9.81
			0.184	0.174							
10)	T	dichlorotfluoro	0.243	0.262	0.259	0.256	0.288	0.277	0.279	0.265	5.67
			0.273	0.248							
11)	T	propyleneoxide		0.016	0.009	0.016	0.026	0.020	0.025	-----	#
			0.022	0.019							
								Q	A= -0.000 R=0.994		
									B= 0.027		
									C= -0.015		
12)	T	Acrolein		0.022	0.029	0.033	0.037	0.036	0.040	-----	
			0.039	0.039							
								Q	A= -0.000 R=1.000		
									B= 0.040		
									C= -0.007		
13)	PT	11dichlorthe	0.211	0.228	0.233	0.213	0.252	0.236	0.244	0.232	5.96
			0.241	0.225							
14)	PT	Trichlorotfluor	0.167	0.213	0.199	0.197	0.240	0.232	0.232	0.213	10.97
			0.233	0.206							
15)	PT	Acetone	0.034	0.048	0.048	0.047	0.048	0.046	0.050	0.046#	10.60
			0.048	0.046							
16)	T	Iodomethane		0.025	0.037	0.055	0.087	0.147	0.189	-----	
			0.205								
								Q	A= 0.027 R=0.997		
									B= 0.104		
									C= -0.022		
17)	PT	Carbon Dislf	0.568	0.577	0.621	0.603	0.634	0.592	0.578	0.575	9.53
			0.555	0.445							
18)	T	allylchloride	0.317	0.335	0.338	0.331	0.342	0.334	0.334	0.326	5.61
			0.324	0.282							
19)	PT	methylacetate		0.096	0.082	0.100	0.097	0.092	0.101	0.096#	6.77
			0.097	0.101							
20)	PT	Methylchlorid	0.338	0.339	0.296	0.280	0.262	0.265	0.263	0.283	12.03
			0.261	0.245							
21)	T	tbutylalcohol	0.013	0.017	0.018	0.017	0.017	0.016	0.017	0.016#	10.01
			0.016	0.014							
22)	T	Acrylonitrile		0.050	0.043	0.051	0.061	0.062	0.067	-----	
			0.067	0.065							

									Q	A= -0.000 R=1.000	
										B= 0.069	
										C= -0.016	
23)	PT	t12dichlorte	0.239	0.260	0.262	0.254	0.258	0.259	0.269	0.256	3.38
			0.261	0.248							
24)	PT	MtBE	0.712	0.740	0.745	0.741	0.697	0.672	0.687	0.694	6.97
			0.662	0.594							
25)	T	Hexane	0.216	0.264	0.256	0.271	0.331	0.315	0.319	0.283	13.16
			0.309	0.269							
26)	PT	11dichlorota	0.440	0.460	0.511	0.457	0.461	0.447	0.444	0.451	6.50
			0.442	0.398							
27)	T	Vinylacetate	0.310	0.260	0.336	0.349	0.350	0.306	0.285	0.306	12.60
			0.250								
28)	T	chloroprene	0.304	0.297	0.325	0.336	0.376	0.360	0.358	0.334	8.48
			0.349	0.306							
29)	T	Diisopether	0.620	0.715	0.743	0.699	0.699	0.675	0.689	0.679	6.62
			0.672	0.599							
30)	T	ETBE	0.663	0.694	0.728	0.706	0.676	0.655	0.669	0.669	6.23
			0.649	0.581							
31)	T	22dichloropr	0.396	0.373	0.412	0.384	0.411	0.407	0.416	0.399	3.86
			0.407	0.383							
32)	PT	c12dichlorte	0.320	0.299	0.277	0.295	0.302	0.293	0.304	0.296	4.43
			0.294	0.278							
33)	PT	2Butanone		0.019	0.024	0.027	0.027	0.026	0.028	0.026#	11.29
			0.027	0.026							
34)	T	propionitrile		0.022	0.019	0.020	0.023	0.023	0.025	0.023#	10.52
			0.025	0.025							
35)	T	Ethylacetate		0.009	0.009	0.010	0.009	0.010	0.011	0.010#	8.23
			0.011	0.011							
36)	T	methacrylonitri		0.092	0.073	0.103	0.110	0.104	0.112	0.101	12.82
			0.109	0.107							
37)	T	Bromochlorma	0.163	0.138	0.136	0.140	0.125	0.124	0.134	0.135	9.18
			0.127	0.123							
38)	T	Tetrahydofur	0.059	0.062	0.063	0.058	0.059	0.054	0.057	0.057	8.26
			0.054	0.048							
39)	PT	Chloroform	0.478	0.516	0.545	0.507	0.484	0.465	0.481	0.486	7.02
			0.473	0.424							
40)	PT	111trichlota	0.362	0.459	0.411	0.404	0.457	0.438	0.447	0.425	7.54
			0.444	0.404							
41)	S	SURRDibrflma	0.256	0.257	0.257	0.253	0.256	0.252	0.256	0.256	0.95
			0.260	0.259							
42)	PT	Cyclohexane	0.267	0.338	0.326	0.315	0.394	0.379	0.398	0.351	12.48
			0.389	0.353							
43)	PT	Carbtetraclo	0.292	0.300	0.338	0.321	0.369	0.354	0.370	0.339	8.75
			0.371	0.340							
44)	T	11dicloprope		0.118	0.113	0.117	0.136	0.138	0.134	0.129	8.67
			0.141	0.135							
45)	S	SURR12DCAd4	0.069	0.072	0.070	0.075	0.069	0.071	0.067	0.071	3.33
			0.072	0.071							
46)	PT	Benzene	1.045	1.179	1.173	1.088	1.123	1.024	1.008	1.043	11.64
			0.959	0.787							
47)	PT	12dichlorota	0.368	0.387	0.377	0.385	0.364	0.351	0.367	0.366	4.34
			0.360	0.337							
48)	T	TAME	0.732	0.673	0.708	0.699	0.710	0.680	0.695	0.686	5.46
			0.675	0.599							
49)	PT	trichloroete	0.282	0.280	0.279	0.278	0.290	0.273	0.280	0.278	2.83
			0.281	0.261							
50)	PT	methylcyclohexa	0.316	0.365	0.398	0.395	0.521	0.493	0.508	-----	
			0.499	0.446							
									Q	A= -0.026 R=1.000	
										B= 0.554	
										C= -0.017	
51)	PT	12dicloropra	0.291	0.275	0.275	0.274	0.275	0.270	0.278	0.274	3.22
			0.269	0.258							
52)	T	23Dicl1propene		0.412	0.406	0.391	0.387	0.390	0.413	0.396	3.53
			0.396	0.372							
53)	T	Dibromometha		0.174	0.154	0.165	0.172	0.164	0.174	0.167	3.95
			0.168	0.165							
54)	T	methylmethacryl		0.154	0.139	0.168	0.182	0.171	0.185	0.171	9.94
			0.186	0.185							

```
55) T   14dioxane            0.002 0.001 0.001 0.001 0.001 0.001 0.001# 12.89
                    0.002 0.001
56) PT  Bromodiclrma    0.328 0.351 0.368 0.378 0.365 0.354 0.376 0.358   4.57
                    0.361 0.341
57) T   2Nitropropane   0.057 0.063 0.061 0.061 0.067 0.066 0.071 0.064   6.82
                    0.068 0.061
58) T   2CLEVE              0.081 0.071 0.092 0.112 0.093 0.117 -----
                    0.108 0.096
                                                  Q  A= -0.001 R=0.996
                                                     B=  0.123
                                                     C= -0.030
59) PT  c13dicloproe    0.406 0.369 0.383 0.435 0.426 0.416 0.442 0.411   5.92
                    0.426 0.397
60) PT  4Meth2Pentan    0.185 0.196 0.212 0.210 0.206 0.178 0.170 0.189  11.23
                    0.152
61) S   SURRd8Tolule    0.970 0.977 0.976 0.987 0.976 0.949 0.962 0.974   1.34
                    0.993 0.979
62) PT  Toluene         0.653 0.768 0.760 0.767 0.745 0.714 0.713 0.712   8.33
                    0.694 0.591
63) PT  t13Dicloprop    0.341 0.316 0.362 0.368 0.381 0.378 0.406 0.368   7.29
                    0.392 0.369
64) T   ethylmethacryla       0.284 0.325 0.331 0.352 0.340 0.347 0.326   7.47
                    0.337 0.295
65) PT  112Triclotha         0.224 0.210 0.209 0.202 0.196 0.205 0.205   4.78
                    0.201 0.193
66) PT  Tetrachlorte    0.263 0.289 0.275 0.275 0.302 0.301 0.302 0.287   5.19
                    0.300 0.279
67) T   13Diclorpropa   0.471 0.433 0.490 0.421 0.430 0.415 0.435 0.432   7.43
                    0.411 0.382

68) I   d5-CHLOROBENZENE**IST ----------------ISTD---------------------
69) PT  2Hexanone            0.162 0.186 0.188 0.196 0.177 0.173 0.177   7.92
                    0.158
70) PT  Clorodibrmta    0.295 0.319 0.315 0.321 0.328 0.330 0.348 0.325   4.65
                    0.338 0.329
71) PT  12Dibrometha    0.267 0.294 0.300 0.311 0.308 0.305 0.320 0.302   5.17
                    0.317 0.298
72) PT  Chlorobenzen    1.000 1.005 1.060 1.006 0.976 0.928 0.918 0.949   9.41
                    0.885 0.759
73) T   1Clhexane        0.385 0.416 0.418 0.424 0.486 0.481 0.492 0.448   8.87
                    0.490 0.442
74) T   1112Tetclota          0.344 0.333 0.333 0.337 0.346 0.353 0.340   2.61
                    0.344 0.326
75) PT  Ethylbenzene    1.465 1.606 1.669 1.657 1.683 1.599 1.541 1.534  11.17
                    1.447 1.137
76) PT  m p-Xylene      0.531 0.582 0.630 0.645 0.659 0.629 0.619 0.597   9.44
                    0.587 0.488
77) PT  o-Xylene        0.499 0.564 0.679 0.623 0.635 0.632 0.637 0.606   8.95
                    0.619 0.562
78) PT  Styrene         0.752 0.858 0.929 1.011 1.024 1.028 1.048 0.944  10.73
                    0.987 0.860
79) PT  Bromoform            0.172 0.180 0.176 0.187 0.201 0.214 0.196  10.06
                    0.217 0.220
80) PT  Isopropylben    1.225 1.480 1.496 1.491 1.607 1.530 1.482 1.425  11.06
                    1.401 1.111
81) T   cyclohexanone        0.005 0.006 0.006 0.006 0.006 0.007 0.006#  9.75
                    0.007 0.007

82) I   d4-1,4-DICHLOROBENZEN ----------------ISTD---------------------
83) S   SURR4BrFBenz    0.895 0.931 0.921 0.925 0.909 0.911 0.893 0.905   2.32
                    0.894 0.863
84) T   Bromobenzene    0.809 0.739 0.804 0.765 0.725 0.711 0.746 0.740   6.80
                    0.710 0.647
85) PT  1122Tetrclta    0.776 0.916 0.862 0.801 0.760 0.752 0.769 0.779   9.74
                    0.714 0.659
86) T   123Triclproa         1.041 1.017 0.961 0.930 0.930 1.001 0.964   5.41
                    0.940 0.887
87) T   14dichloro2bute       0.167 0.172 0.184 0.169 0.193 0.213 0.188   9.30
                    0.201 0.204
88) T   n-Propylbenz    2.815 3.148 3.216 3.239 3.364 3.143 3.045 2.976  13.33
```

			2.761	2.056							
89)	T	2chlorotolue	2.011	1.850	2.172	2.029	2.062	1.940	1.913	1.914	10.61
			1.773	1.473							
90)	T	4chlorotolue	2.269	2.197	2.457	2.394	2.375	2.249	2.243	2.214	10.48
			2.066	1.679							
91)	T	135Trimebenz	1.888	2.154	2.323	2.396	2.410	2.326	2.258	2.172	11.28
			2.109	1.688							
92)	T	tbutylbenzen	1.556	1.820	1.911	1.911	2.046	1.979	1.972	1.839	10.23
			1.856	1.505							
93)	T	124Trimetben	1.962	2.159	2.360	2.371	2.412	2.326	2.295	2.187	10.89
			2.112	1.685							
94)	T	sbutylbenzen	1.916	2.479	2.606	2.760	2.901	2.814	2.685	2.508	14.41
			2.486	1.924							
95)	PT	13Diclorbenz	1.251	1.364	1.466	1.423	1.378	1.317	1.335	1.321	8.39
			1.261	1.091							
96)	T	pIsopropylto	1.937	2.218	2.186	2.366	2.521	2.416	2.375	2.217	11.17
			2.202	1.736							
97)	PT	14dichlorobe	1.476	1.430	1.511	1.505	1.436	1.345	1.354	1.383	9.30
			1.278	1.110							
98)	PT	12dichlorobe	1.358	1.393	1.382	1.388	1.267	1.255	1.261	1.282	8.97
			1.192	1.043							
99)	T	nButylbenzen	1.570	2.022	2.169	2.126	2.270	2.223	2.173	2.025	12.45
			2.031	1.639							
100)	PT	12dibromo3cl		0.150	0.149	0.133	0.133	0.131	0.141	0.140	5.07
			0.140	0.140							
101)	T	135Trichloroben	0.702	0.850	0.868	0.859	0.885	0.868	0.858	0.829	7.68
			0.832	0.740							
102)	PT	124Trichlobe	0.680	0.705	0.756	0.746	0.748	0.743	0.773	0.726	5.34
			0.729	0.654							
103)	T	Hexachlorobu	0.317	0.390	0.330	0.328	0.373	0.373	0.371	0.353	7.31
			0.362	0.334							
104)	T	Naphthalene	1.695	1.661	1.732	1.840	1.837	1.780	1.869	1.725	8.10
			1.698	1.408							
105)	T	123Trichlben	0.624	0.738	0.653	0.668	0.667	0.671	0.679	0.658	6.23
			0.632	0.591							

Total Average %RSD 7.98

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

W111219.M Tue Dec 10 11:11:05 2019

BFB

Data File : C:\Instarch\Data\NOV1219\BFB1.D Vial: 1
Acq On : 12 Nov 2019 9:18 Operator: RLD-DGS
Sample : 165549,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W111219.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.622 to 4.634 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	4720	PASS
75	95	30	60	57.7	15334	PASS
95	95	100	100	100.0	26594	PASS
96	95	5	9	8.1	2166	PASS
173	174	0.00	2	0.8	201	PASS
174	95	50	100	91.2	24242	PASS
175	174	5	9	6.2	1509	PASS
176	174	95	101	100.0	24248	PASS
177	176	5	9	6.9	1666	PASS

W111219.M Tue Dec 10 11:06:36 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL1.D Vial: 4
Acq On : 12 Nov 2019 10:36 Operator: RLD-DGS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:11:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:52 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1074315	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	824763	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	439772	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	274871	19.979	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.21	102	74126	19.528	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 98	%		
61) SURRd8Tolule	9.63	98	1041694	19.907	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100	%		
83) SURR4BrFBenz	13.18	95	393413	19.781	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 99	%		
Target Compounds						Qvalue
2) Dichlorodi	1.84	85	5934	0.4299	ug/L	91
3) Chloromethan	2.09	50	7208	0.5435	ug/L	84
4) VinylChlorid	2.24	62	7914	0.4701	ug/L	83
5) Bromomethane	2.69	94	4813	0.4987	ug/L #	74
6) Chloroethane	2.86	64	9708	0.6970	ug/L	70
7) Dichloroflmethane	3.16	67	14115	0.5823	ug/L #	91
8) Trichlorofma	3.23	101	9589	0.4409	ug/L	98
9) Ethylether	3.68	59	3758	0.3864	ug/L #	79
10) dichlorotfluoroethan	3.68	67	6532	0.4589	ug/L #	87
11) propyleneoxide	3.75	58	5879m	5.9719	ug/L #	16
12) Acrolein	3.84	56	3158	1.7054	ug/L	86
13) 11dichlorthe	3.95	96	5672	0.4560	ug/L	89
14) Trichlorotfluoroeth	4.00	101	8996	0.7855	ug/L	90
15) Acetone	4.06	43	9049	3.6519	ug/L	76
16) Iodomethane	4.13	142	1273	0.2000	ug/L #	39
17) Carbon Dislf	4.22	76	30494	0.9875	ug/L	96
18) allylchloride	4.44	41	17004	0.9702	ug/L	89
19) methylacetate	4.53	74	975m	0.2037	ug/L #	0
20) Methylchlorid	4.59	84	9071	0.5963	ug/L	96
21) tbutylalcohol	4.79	59	17524	20.3175	ug/L	77
22) Acrylonitrile	4.99	53	2973	0.9858	ug/L #	72
23) t12dichlorte	4.96	96	6419	0.4660	ug/L	95
24) MtBE	4.99	73	19118	0.5126	ug/L	89
25) Hexane	5.35	57	11623	0.7638	ug/L #	94
26) 11dichlorota	5.48	63	11817	0.4875	ug/L	90
27) Vinylacetate	5.60	43	83265m	5.4662	ug/L	88
28) chloroprene	5.61	53	16310	0.9077	ug/L	89
29) Diisopether	5.63	45	16664	0.4569	ug/L	98
30) ETBE	6.08	59	17815	0.4957	ug/L	93
31) 22dichloropr	6.22	77	10636	0.4964	ug/L	99
32) c12dichlorte	6.22	96	8588	0.5406	ug/L	98
33) 2Butanone	6.25	72	1185	0.8621	ug/L #	48
34) propionitrile	6.33	54	1853	1.6143	ug/L #	55
35) Ethylacetate	6.37	88	1271	2.3891	ug/L #	36
36) methacrylonitrile	6.48	67	3041	0.6160	ug/L #	28
37) Bromochlorma	6.50	128	4365	0.6040	ug/L #	74
38) Tetrahydofur	6.59	42	15936	5.1951	ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL1.D Vial: 4
Acq On : 12 Nov 2019 10:36 Operator: RLD-DGS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:11:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:52 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.60	83	12827	0.4915 ug/L		84
40)	111trichlota	6.83	97	9729	0.4260 ug/L		88
42)	Cyclohexane	6.93	56	7175	0.3806 ug/L		96
43)	Carbtetraclo	7.04	119	7848	0.4304 ug/L		98
44)	11dicloprope	7.06	110	3809	0.5498 ug/L	#	65
46)	Benzene	7.29	78	28078	0.5012 ug/L	#	77
47)	12dichlorota	7.30	62	9878	0.5020 ug/L	#	86
48)	TAME	7.46	73	19648	0.5335 ug/L		87
49)	trichloroete	8.10	95	7562	0.5063 ug/L	#	86
50)	methylcyclohexane	8.35	83	8498	0.3612 ug/L		99
51)	12dicloropra	8.35	63	7824	0.5314 ug/L	#	73
52)	23Dicl1propene	8.43	75	7709	0.3626 ug/L		85
53)	Dibromometha	8.50	93	5432	0.6060 ug/L	#	85
54)	methylmethacrylate	8.55	69	3112	0.3386 ug/L	#	43
55)	14dioxane	8.56	88	1672	22.5569 ug/L	#	24
56)	Bromodiclrma	8.70	83	8817	0.4584 ug/L	#	90
57)	2Nitropropane	8.97	43	15343	4.4671 ug/L		93
58)	2CLEVE	9.11	63	9381	1.8139 ug/L		91
59)	c13dicloproe	9.29	75	10909	0.4940 ug/L		100
60)	4Meth2Pentan	9.48	43	49640m	5.1442 ug/L		97
62)	Toluene	9.72	92	17549	0.4590 ug/L		93
63)	t13Dicloprop	9.99	75	9156	0.4632 ug/L		73
64)	ethylmethacrylate	10.14	69	15521	0.8854 ug/L		95
65)	112Triclotha	10.22	83	6497	0.5902 ug/L		89
66)	Tetrachlorte	10.44	166	7057	0.4573 ug/L		87
67)	13Diclorpropa	10.45	76	12638	0.5446 ug/L		97
69)	2Hexanone	10.57	43	33043	4.7126 ug/L		97
70)	Clorodibrmta	10.75	129	6073	0.4532 ug/L		94
71)	12Dibrometha	10.89	107	5509	0.4421 ug/L		90
72)	Chlorobenzen	11.58	112	20614	0.5270 ug/L	#	54
73)	1Clhexane	11.56	91	7945	0.4300 ug/L	#	20
74)	1112Tetclota	11.68	131	7065	0.5046 ug/L	#	81
75)	Ethylbenzene	11.73	91	30207	0.4776 ug/L		93
76)	m p-Xylene	11.90	106	21884	0.8894 ug/L	#	86
77)	o-Xylene	12.46	106	10290	0.4121 ug/L		89
78)	Styrene	12.47	104	15515	0.3985 ug/L		98
79)	Bromoform	12.71	173	3494	0.4323 ug/L		76
80)	Isopropylben	12.97	105	25264	0.4300 ug/L		98
81)	cyclohexanone	13.08	55	2561	9.7600 ug/L	#	76
84)	Bromobenzene	13.39	156	8898	0.5471 ug/L	#	77
85)	1122Tetrclta	13.36	83	8535	0.4983 ug/L		84
86)	123Triclproa	13.42	75	7757	0.3661 ug/L		67
87)	14dichloro2butene	13.46	53	1935	0.4685 ug/L		88
88)	n-Propylbenz	13.56	91	30946	0.4728 ug/L		94
89)	2chlorotolue	13.67	91	22111	0.5255 ug/L		100
90)	4chlorotolue	13.83	91	24946	0.5123 ug/L		96
91)	135Trimebenz	13.81	105	20758	0.4346 ug/L		88
92)	tbutylbenzen	14.28	119	17108	0.4230 ug/L		96
93)	124Trimetben	14.36	105	21576	0.4487 ug/L		87
94)	sbutylbenzen	14.60	105	21069	0.3821 ug/L		89
95)	13Diclorbenz	14.74	146	13751	0.4736 ug/L		91
96)	pIsopropylto	14.82	119	21291	0.4367 ug/L	#	97
97)	14dichlorobe	14.87	146	16224	0.5336 ug/L	#	66
98)	12dichlorobe	15.41	146	14931	0.5297 ug/L	#	51
99)	nButylbenzen	15.41	91	17258	0.3876 ug/L		95
100)	12dibromo3cl	16.50	157	2097	0.6826 ug/L	#	74
101)	135Trichlorobenzene	16.83	180	7720	0.4234 ug/L		80

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL1.D Vial: 4
Acq On : 12 Nov 2019 10:36 Operator: RLD-DGS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:11:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:52 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
102)	124Trichlobe	17.64	180	7476	0.4682	ug/L		91
103)	Hexachlorobu	17.90	225	3489	0.4492	ug/L	#	76
104)	Naphthalene	17.96	128	18637	0.4915	ug/L		95
105)	123Trichlben	18.26	180	6862	0.4742	ug/L		98

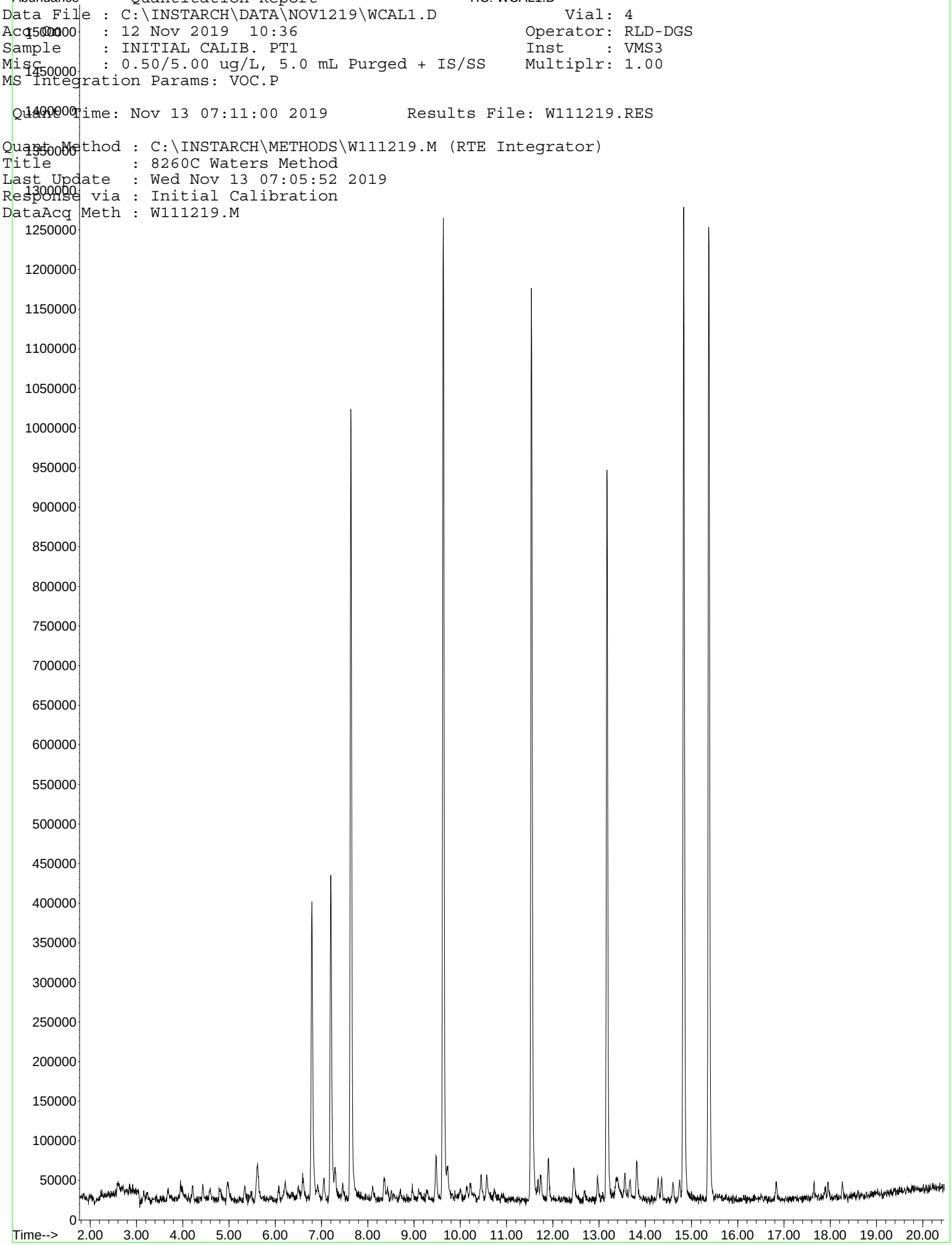
(#) = qualifier out of range (m) = manual integration

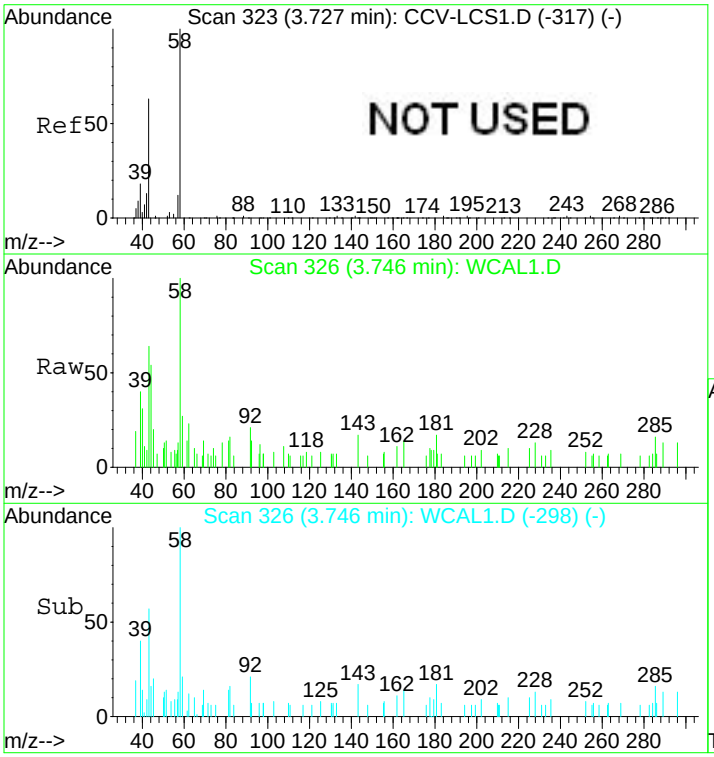
Abundance Quantitation Report TIC: WCAL1.D

Data File : C:\INSTARCH\DATA\NOV1219\WCAL1.D Vial: 4
Acq On : 12 Nov 2019 10:36 Operator: RLD-DGS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:11:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:52 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

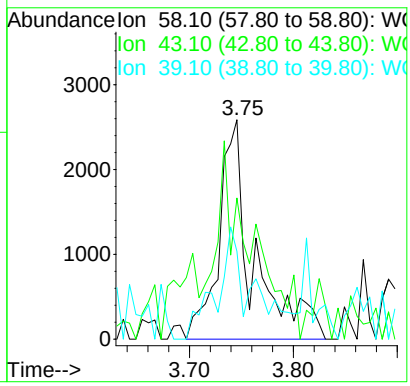




#11
propyleneoxide
Concen: 5.97 ug/L m
RT: 3.75 min Scan# 326
Delta R.T. 0.02 min
Lab File: WCAL1.D
Acq: 12 Nov 2019 10:36

Tgt Ion: 58 Resp: 5879

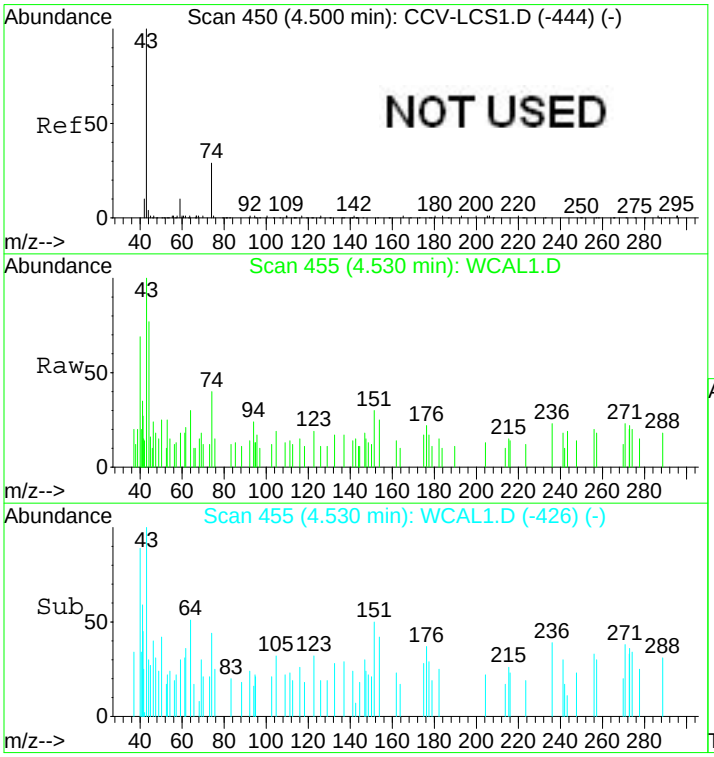
Ion	Ratio	Lower	Upper
58	100		
43	89.3	52.0	92.0
39	55.2	0.0	37.8#



After Manual Integration

12/10/2019

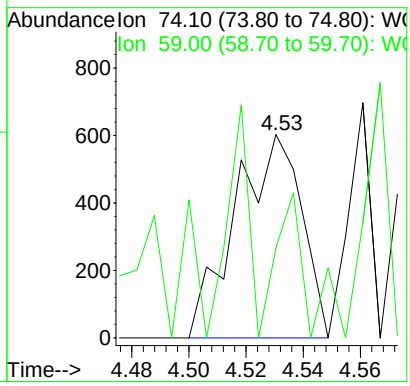
DGS 12/10/2019

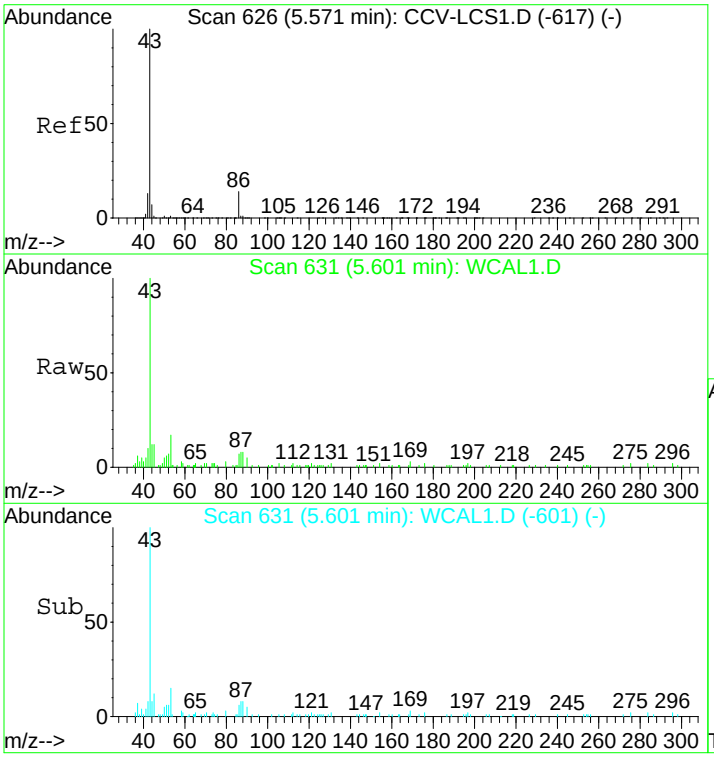


#19
methylacetate
Concen: 0.20 ug/L m
RT: 4.53 min Scan# 455
Delta R.T. 0.02 min
Lab File: WCAL1.D
Acq: 12 Nov 2019 10:36

Tgt Ion: 74 Resp: 975

Ion	Ratio	Lower	Upper
74	100		
59	0.0	9.7	49.7#

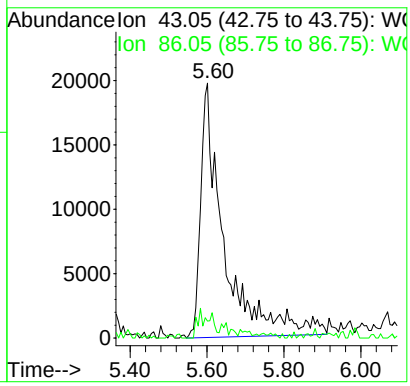




#27
Vinylacetate
Concen: 5.47 ug/L m
RT: 5.60 min Scan# 631
Delta R.T. 0.03 min
Lab File: WCAL1.D
Acq: 12 Nov 2019 10:36

Tgt Ion: 43 Resp: 83265

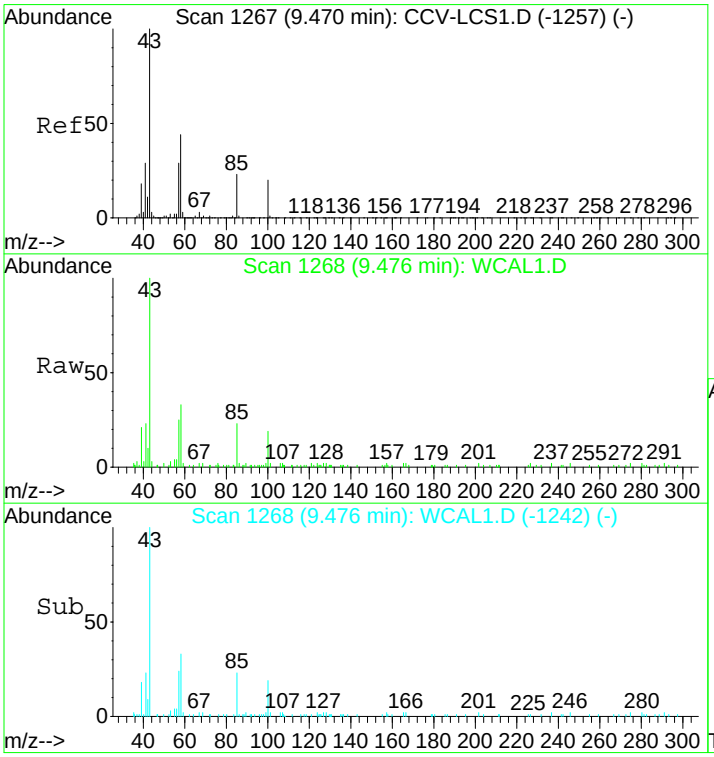
Ion	Ratio	Lower	Upper
43	100		
86	6.1	0.0	32.5



After Manual Integration

12/10/2019

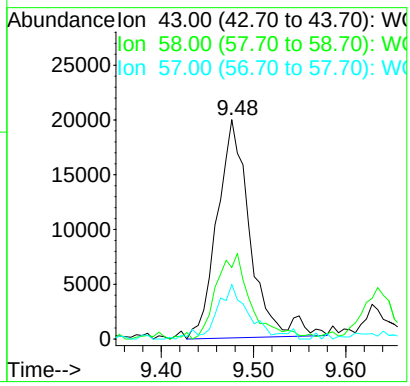
DGS 12/10/2019

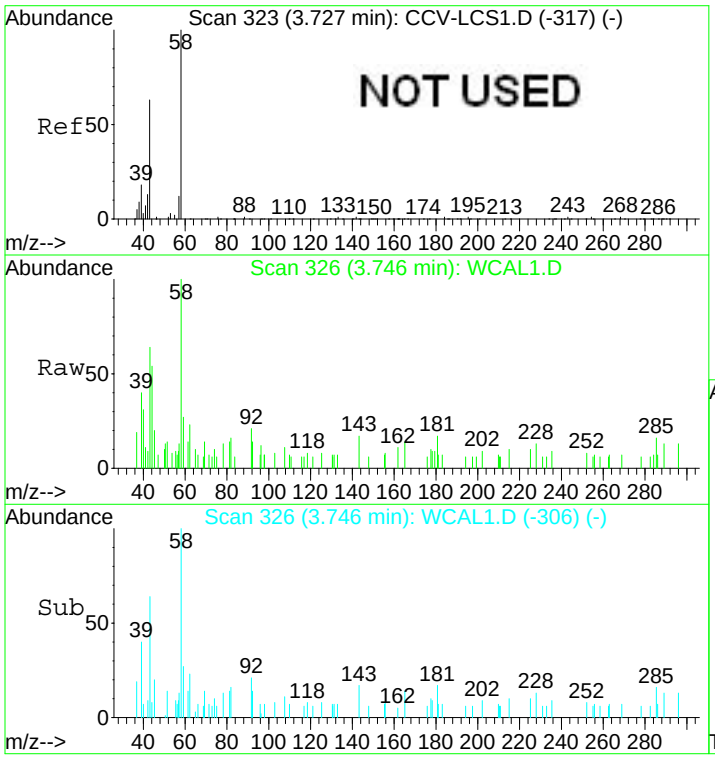


#60
4Meth2Pentan
Concen: 5.14 ug/L m
RT: 9.48 min Scan# 1268
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 12 Nov 2019 10:36

Tgt Ion: 43 Resp: 49640

Ion	Ratio	Lower	Upper
43	100		
58	41.2	22.7	62.7
57	23.4	7.2	47.2

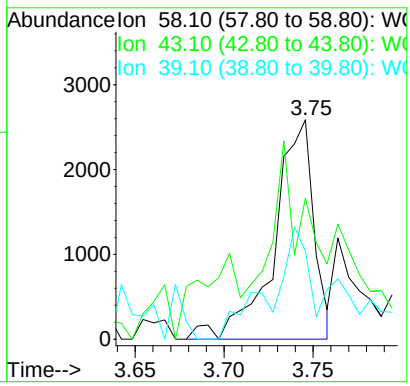




#11
propyleneoxide
Concen: 14.09 ug/L
RT: 3.75 min Scan# 326
Delta R.T. 0.02 min
Lab File: WCAL1.D
Acq: 12 Nov 2019 10:36

Tgt Ion: 58 Resp: 4025

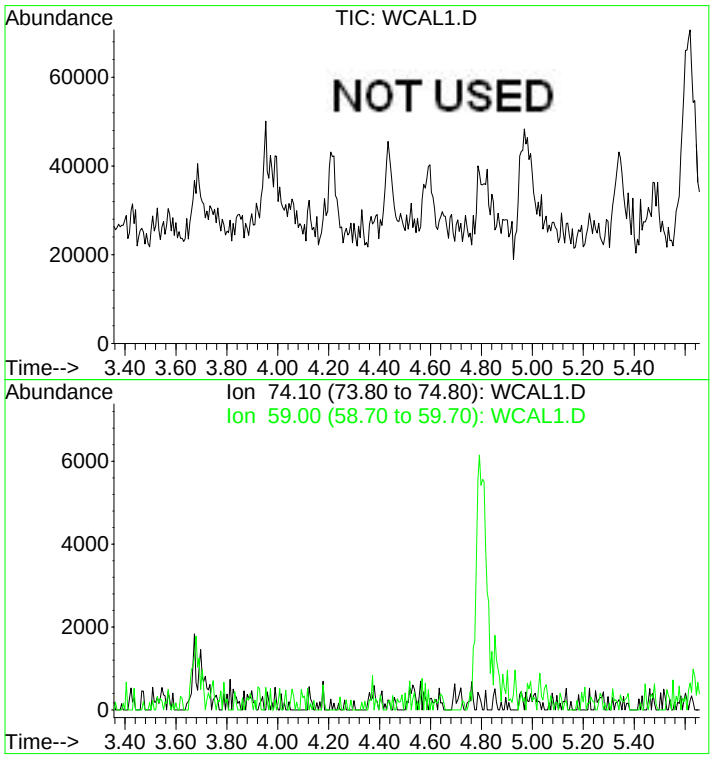
Ion	Ratio	Lower	Upper
58	100		
43	94.7	52.0	92.0#
39	80.6	0.0	37.8#



Before Manual Integration

12/10/2019

REASON # 2



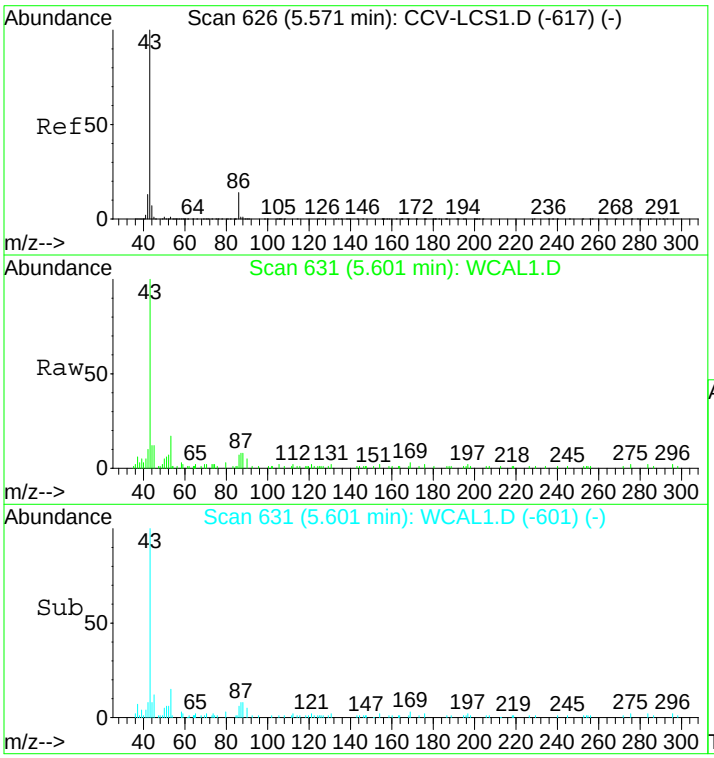
#19
methylacetate
Concen: N.D.
Expected RT: 4.51 min

Lab File: WCAL1.D
Acq: 12 Nov 2019 10:36

Tgt Ion: 74

Sig	Exp Ratio
74	100
59	29.7

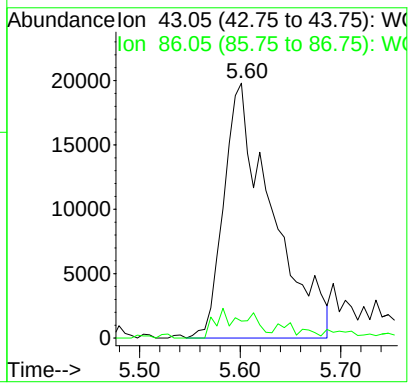
REASON # 1



#27
Vinylacetate
Concen: 3.99 ug/L
RT: 5.60 min Scan# 631
Delta R.T. 0.03 min
Lab File: WCAL1.D
Acq: 12 Nov 2019 10:36

Tgt Ion: 43 Resp: 65543

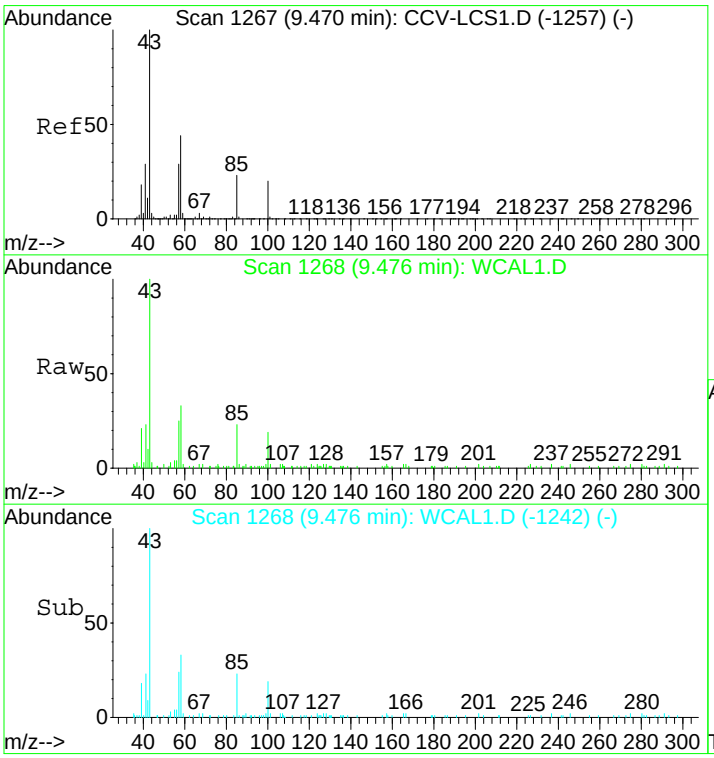
Ion	Ratio	Lower	Upper
43	100		
86	7.7	0.0	32.5



Before Manual Integration

12/10/2019

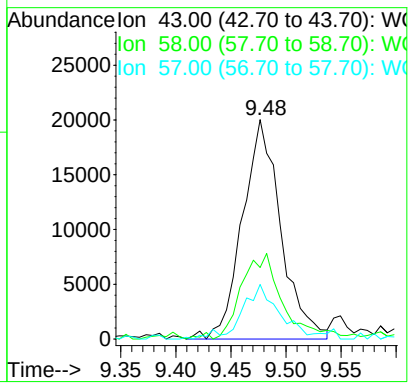
REASON # 2



#60
4Meth2Pentan
Concen: 4.80 ug/L
RT: 9.48 min Scan# 1268
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 12 Nov 2019 10:36

Tgt Ion: 43 Resp: 48653

Ion	Ratio	Lower	Upper
43	100		
58	42.0	22.7	62.7
57	23.9	7.2	47.2



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL2.D Vial: 5
Acq On : 12 Nov 2019 11:06 Operator: RLD-DGS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:12:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:34 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1057629	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	825166	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	437205	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	272009	20.083	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.21	102	76082	20.360	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 102	%		
61) SURRd8Tolule	9.63	98	1033785	20.067	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100	%		
83) SURR4BrFBenz	13.18	95	407112	20.590	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 103	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	13835	1.0182	ug/L	95
3) Chloromethan	2.09	50	14380	1.1015	ug/L	96
4) VinylChlorid	2.24	62	16989	1.0250	ug/L	80
5) Bromomethane	2.70	94	9343	0.9834	ug/L	87
6) Chloroethane	2.85	64	15686	1.1440	ug/L	89
7) Dichloroflmethane	3.16	67	24078	1.0089	ug/L	85
8) Trichlorofma	3.22	101	22573	1.0542	ug/L	92
9) Ethylether	3.68	59	10706	1.1181	ug/L #	74
10) dichlorotfluoroethan	3.68	67	13867	0.9896	ug/L	98
11) propyleneoxide	3.74	58	8693	8.9697	ug/L	90
12) Acrolein	3.86	56	5753	3.1557	ug/L #	47
13) 11dichlorthe	3.94	96	12079	0.9865	ug/L	91
14) Trichlorotfluoroeth	3.98	101	22577	2.0025	ug/L	98
15) Acetone	4.06	43	25542	10.4705	ug/L	90
16) Iodomethane	4.12	142	2608m	0.4163	ug/L	70
17) Carbon Dislf	4.21	76	61064	2.0087	ug/L	94
18) allylchloride	4.43	41	35408	2.0521	ug/L	93
19) methylacetate	4.51	74	5059m	1.0737	ug/L	67
20) Methylchlorid	4.59	84	17901	1.1953	ug/L	95
21) tbutylalcohol	4.79	59	45348	53.4064	ug/L	97
22) Acrylonitrile	4.96	53	13174m	4.4373	ug/L #	64
23) t12dichlorte	4.96	96	13723	1.0120	ug/L	94
24) MtBE	4.99	73	39108	1.0650	ug/L	91
25) Hexane	5.34	57	27956	1.8661	ug/L	95
26) 11dichlorota	5.47	63	24346	1.0203	ug/L	95
27) Vinylacetate	5.60	43	137638	9.1783	ug/L	97
28) chloroprene	5.61	53	31362	1.7730	ug/L	95
29) Diisopether	5.63	45	37793	1.0525	ug/L	93
30) ETBE	6.07	59	36687	1.0369	ug/L	98
31) 22dichloropr	6.20	77	19714	0.9346	ug/L	90
32) c12dichlorte	6.22	96	15818	1.0115	ug/L	92
33) 2Butanone	6.28	72	10096	7.4606	ug/L	98
34) propionitrile	6.29	54	11465m	10.1460	ug/L	79
35) Ethylacetate	6.36	88	2310	4.4105	ug/L #	12
36) methacrylonitrile	6.49	67	9731m	2.0023	ug/L #	6
37) Bromochlorma	6.51	128	7305	1.0268	ug/L #	86
38) Tetrahydofur	6.58	42	32939	10.9075	ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL2.D Vial: 5
Acq On : 12 Nov 2019 11:06 Operator: RLD-DGS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:12:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:34 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.60	83	27274	1.0616 ug/L		93
40)	111trichlota	6.84	97	24288	1.0803 ug/L		95
42)	Cyclohexane	6.93	56	17888	0.9637 ug/L		95
43)	Carbtetraclo	7.06	119	15890	0.8853 ug/L		92
44)	11dicloprope	7.05	110	6223	0.9124 ug/L	#	88
46)	Benzene	7.30	78	62334	1.1302 ug/L		96
47)	12dichlorota	7.30	62	20441	1.0552 ug/L		86
48)	TAME	7.46	73	35609	0.9821 ug/L		92
49)	trichloroete	8.10	95	14799	1.0065 ug/L		93
50)	methylcyclohexane	8.36	83	19322	0.8341 ug/L		92
51)	12dicloropra	8.36	63	14566	1.0050 ug/L		85
52)	23Dicl1propene	8.42	75	21788	1.0409 ug/L		95
53)	Dibromometha	8.50	93	9221	1.0449 ug/L		96
54)	methylmethacrylate	8.55	69	8121	0.8974 ug/L	#	66
55)	14dioxane	8.56	88	4112	56.3501 ug/L	#	70
56)	Bromodiclrma	8.71	83	18553	0.9797 ug/L		98
57)	2Nitropropane	8.97	43	33220	9.8246 ug/L		99
58)	2CLEVE	9.11	63	21423	4.2078 ug/L		92
59)	c13dicloproe	9.29	75	19517	0.8978 ug/L		100
60)	4Meth2Pentan	9.47	43	103675	10.9134 ug/L		100
62)	Toluene	9.73	92	40619	1.0793 ug/L		99
63)	t13Dicloprop	9.99	75	16705	0.8584 ug/L		91
64)	ethylmethacrylate	10.14	69	30061	1.7419 ug/L		93
65)	112Triclotha	10.21	83	11854	1.0939 ug/L		95
66)	Tetrachlorte	10.45	166	15287	1.0063 ug/L		99
67)	13Diclorpropa	10.44	76	22905	1.0026 ug/L		87
69)	2Hexanone	10.57	43	66761	9.5167 ug/L		92
70)	Clorodibrmta	10.74	129	13167	0.9820 ug/L		90
71)	12Dibrometha	10.90	107	12123	0.9724 ug/L		91
72)	Chlorobenzen	11.58	112	41478	1.0599 ug/L		91
73)	1Clhexane	11.56	91	17162	0.9283 ug/L	#	58
74)	1112Tetclota	11.69	131	14199	1.0136 ug/L		89
75)	Ethylbenzene	11.74	91	66261	1.0470 ug/L		97
76)	m p-Xylene	11.90	106	48060	1.9522 ug/L		90
77)	o-Xylene	12.45	106	23253	0.9308 ug/L		97
78)	Styrene	12.46	104	35402	0.9087 ug/L		99
79)	Bromoform	12.71	173	7092	0.8770 ug/L		90
80)	Isopropylben	12.97	105	61068	1.0389 ug/L		95
81)	cyclohexanone	13.07	55	4277	16.2917 ug/L	#	86
84)	Bromobenzene	13.38	156	16151	0.9990 ug/L		92
85)	1122Tetrclta	13.35	83	20029	1.1763 ug/L		97
86)	123Triclproa	13.42	75	22765	1.0808 ug/L		96
87)	14dichloro2butene	13.48	53	3653	0.8897 ug/L	#	81
88)	n-Propylbenz	13.55	91	68808	1.0575 ug/L		94
89)	2chlorotolue	13.67	91	40436	0.9666 ug/L		99
90)	4chlorotolue	13.82	91	48026	0.9921 ug/L		99
91)	135Trimebenz	13.81	105	47084	0.9915 ug/L		98
92)	tbutylbenzen	14.28	119	39792	0.9896 ug/L		94
93)	124Trimetben	14.35	105	47203	0.9874 ug/L		97
94)	sbutylbenzen	14.60	105	54189	0.9884 ug/L		96
95)	13Diclorbenz	14.74	146	29811	1.0327 ug/L		94
96)	pIsopropylto	14.81	119	48491	1.0003 ug/L		94
97)	14dichlorobe	14.87	146	31252	1.0339 ug/L	#	73
98)	12dichlorobe	15.40	146	30442	1.0862 ug/L		83
99)	nButylbenzen	15.41	91	44195	0.9985 ug/L		98
100)	12dibromo3cl	16.49	157	3284	1.0752 ug/L		99
101)	135Trichlorobenzene	16.83	180	18574	1.0246 ug/L		87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL2.D Vial: 5
Acq On : 12 Nov 2019 11:06 Operator: RLD-DGS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:12:33 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:34 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	15421	0.9715	ug/L	96
103) Hexachlorobu	17.89	225	8516	1.1029	ug/L	87
104) Naphthalene	17.95	128	36299	0.9628	ug/L	90
105) 123Trichlben	18.26	180	16128	1.1211	ug/L	96

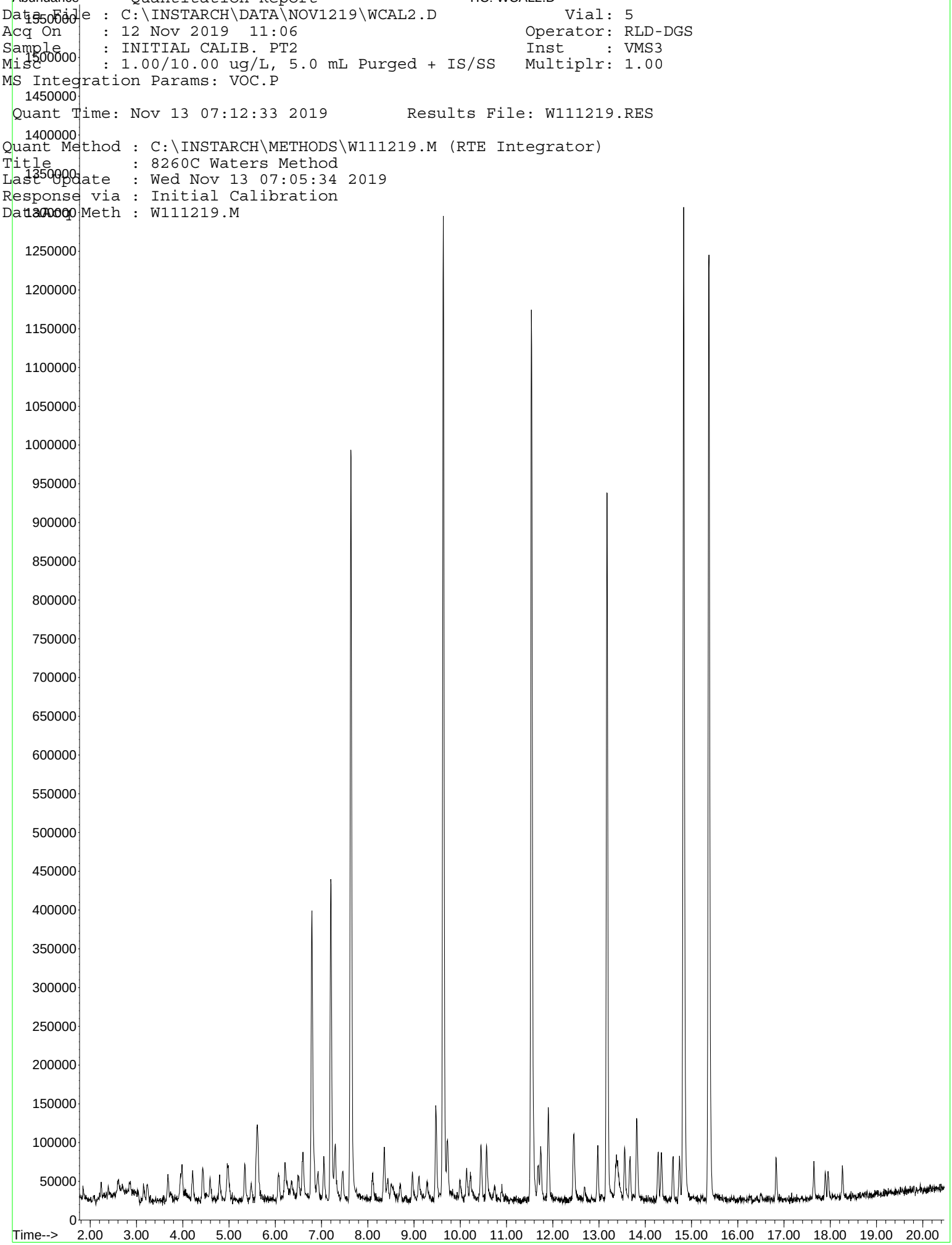
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL2.D

Data File : C:\INSTARCH\DATA\NOV1219\WCAL2.D Vial: 5
Acq On : 12 Nov 2019 11:06 Operator: RLD-DGS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:12:33 2019 Results File: W111219.RES

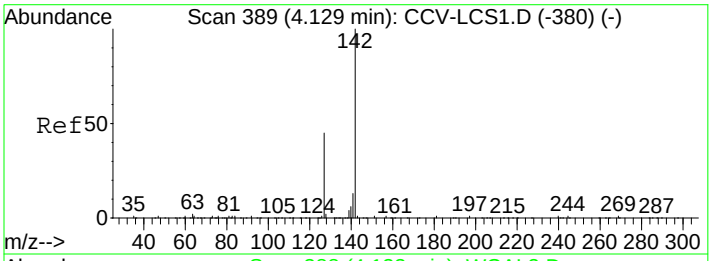
Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:34 2019
Response via : Initial Calibration
Data Acq Meth : W111219.M

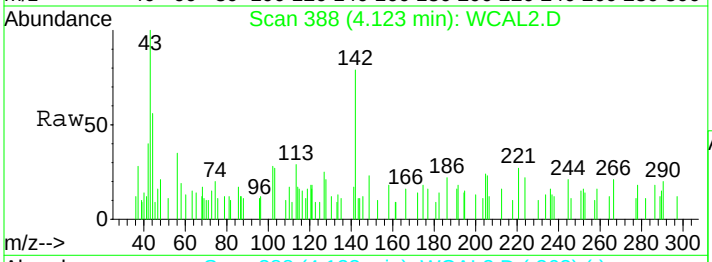


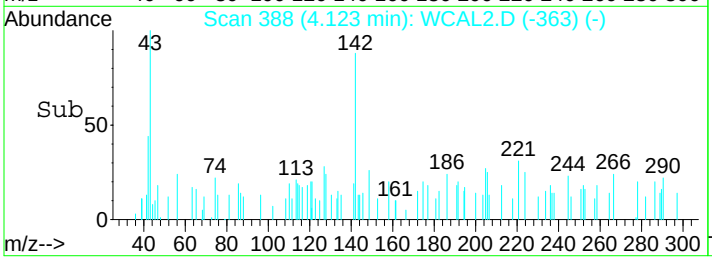
After Manual Integration

12/10/2019

DGS 12/10/2019



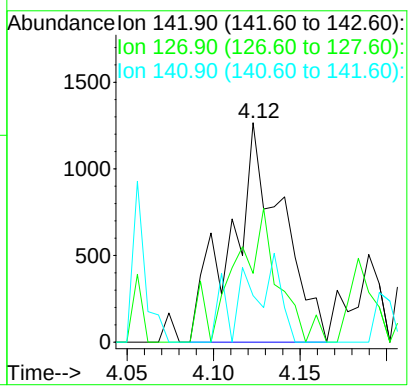


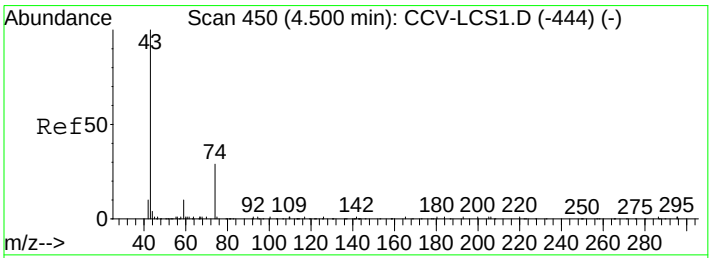


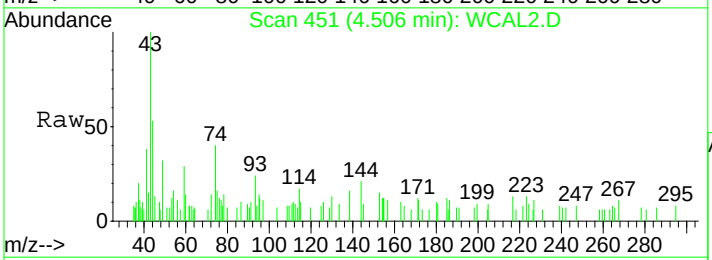
#16
Iodomethane
Concen: 0.42 ug/L m
RT: 4.12 min Scan# 388
Delta R.T. 0.00 min
Lab File: WCAL2.D
Acq: 12 Nov 2019 11:06

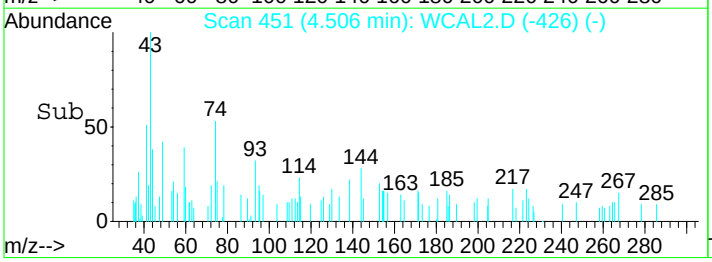
Tgt Ion:142 Resp: 2608

Ion	Ratio	Lower	Upper
142	100		
127	52.8	25.2	65.2
141	0.0	0.0	33.8





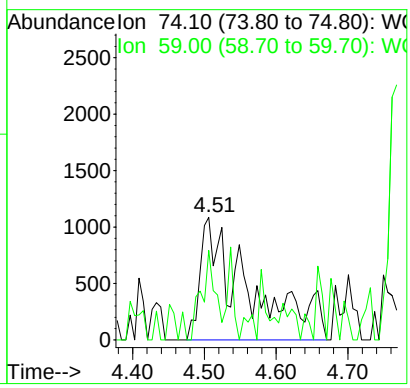


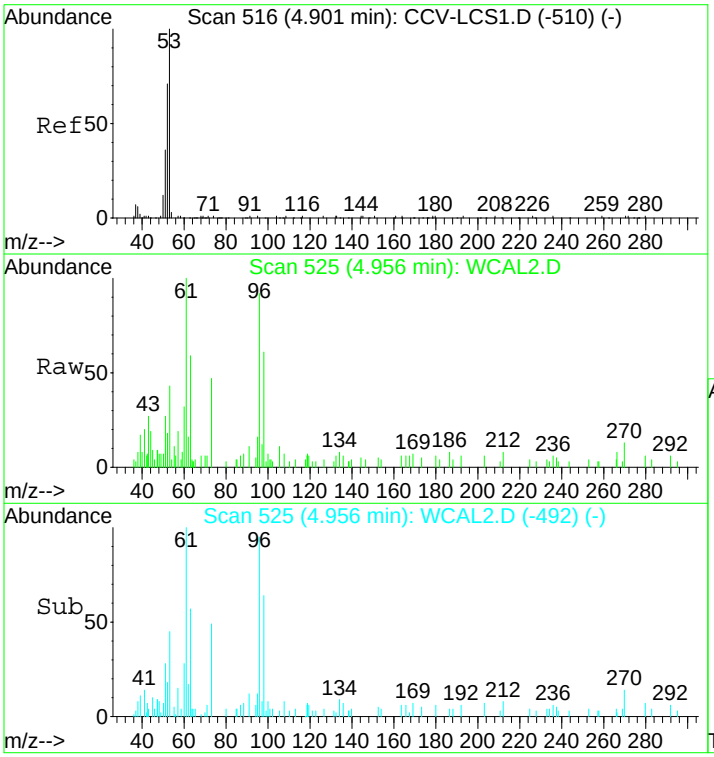


#19
methylacetate
Concen: 1.07 ug/L m
RT: 4.51 min Scan# 451
Delta R.T. 0.00 min
Lab File: WCAL2.D
Acq: 12 Nov 2019 11:06

Tgt Ion: 74 Resp: 5059

Ion	Ratio	Lower	Upper
74	100		
59	21.2	9.7	49.7

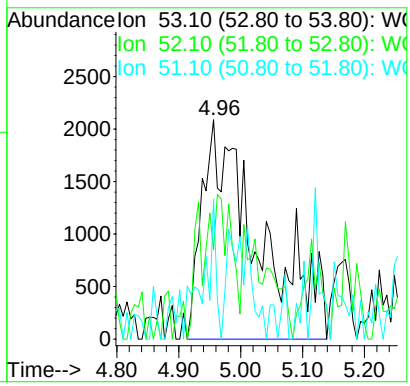




#22
Acrylonitrile
Concen: 4.44 ug/L m
RT: 4.96 min Scan# 525
Delta R.T. 0.05 min
Lab File: WCAL2.D
Acq: 12 Nov 2019 11:06

Tgt Ion: 53 Resp: 13174

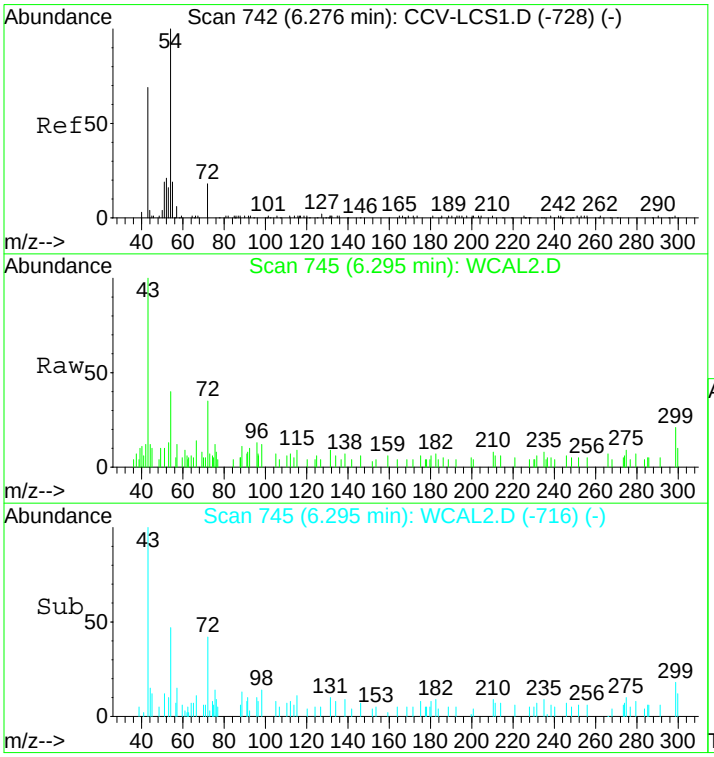
Ion	Ratio	Lower	Upper
53	100		
52	34.7	59.5	99.5#
51	7.9	15.4	55.4#



After Manual Integration

12/10/2019

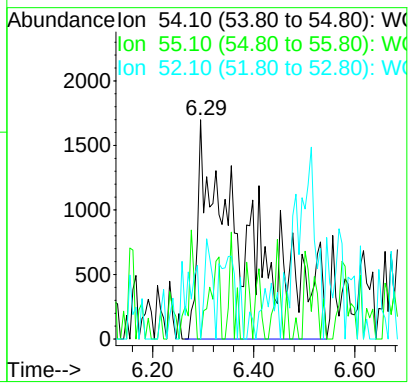
DGS 12/10/2019

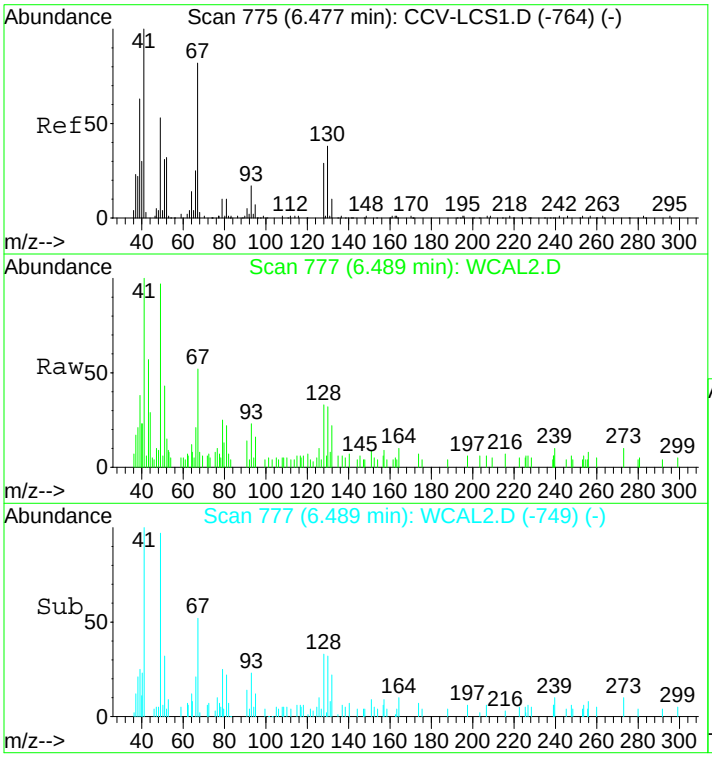


#34
propionitrile
Concen: 10.15 ug/L m
RT: 6.29 min Scan# 745
Delta R.T. 0.02 min
Lab File: WCAL2.D
Acq: 12 Nov 2019 11:06

Tgt Ion: 54 Resp: 11465

Ion	Ratio	Lower	Upper
54	100		
55	0.0	0.0	39.0
52	12.6	2.9	42.9

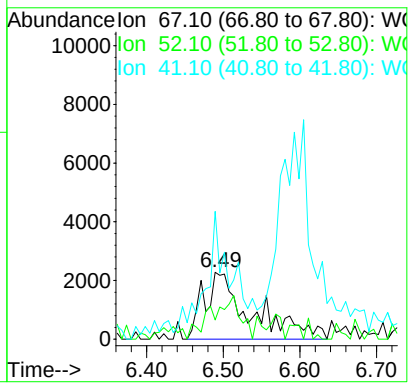




#36
methacrylonitrile
Concen: 2.00 ug/L m
RT: 6.49 min Scan# 777
Delta R.T. 0.02 min
Lab File: WCAL2.D
Acq: 12 Nov 2019 11:06

Tgt Ion: 67 Resp: 9731

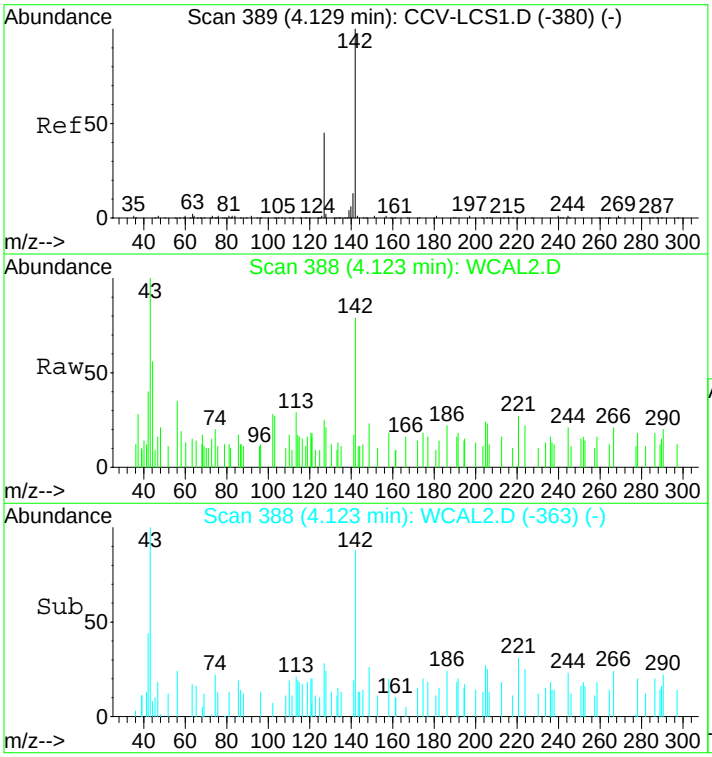
Ion	Ratio	Lower	Upper
67	100		
52	0.0	15.7	55.7#
41	0.0	90.6	130.6#



After Manual Integration

RJ 12/10/2019

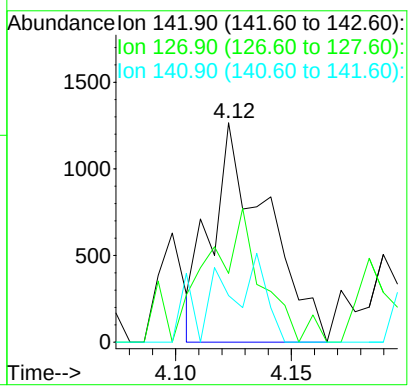
DGS 12/10/2019



#16
Iodomethane
Concen: 4.29 ug/L
RT: 4.12 min Scan# 388
Delta R.T. 0.00 min
Lab File: WCAL2.D
Acq: 12 Nov 2019 11:06

Tgt Ion:142 Resp: 2136

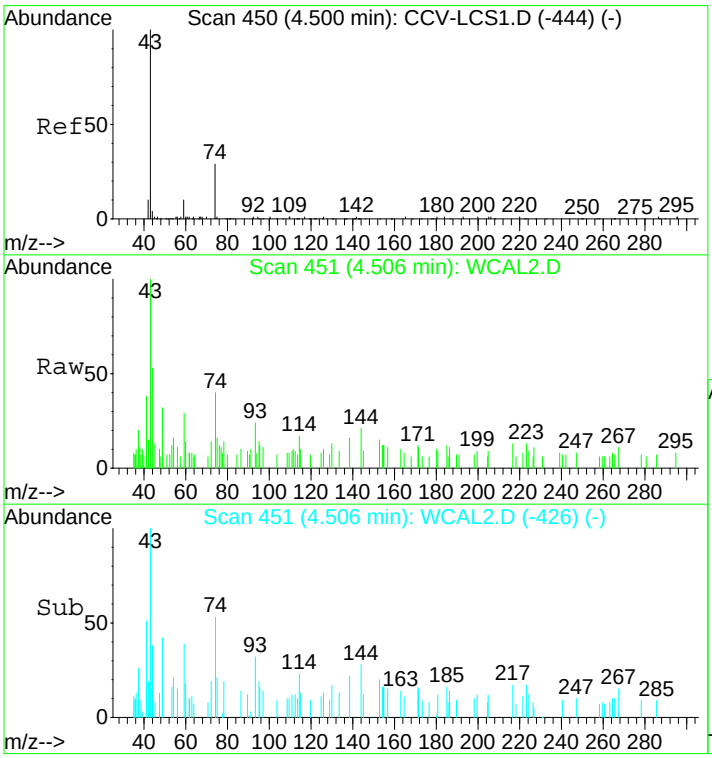
Ion	Ratio	Lower	Upper
142	100		
127	64.4	25.2	65.2
141	0.0	0.0	33.8



Before Manual Integration

12/10/2019

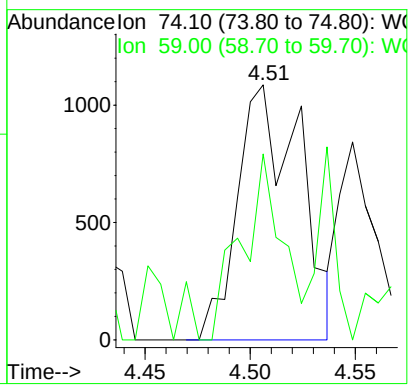
REASON # 2



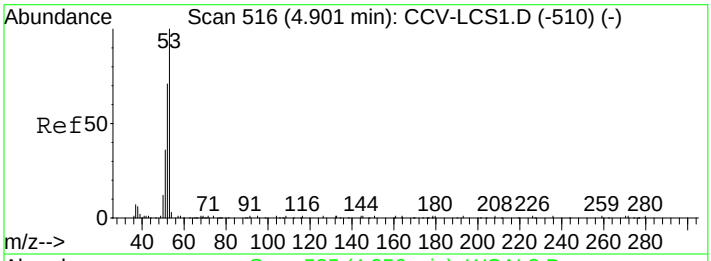
#19
methylacetate
Concen: 0.44 ug/L
RT: 4.51 min Scan# 451
Delta R.T. 0.00 min
Lab File: WCAL2.D
Acq: 12 Nov 2019 11:06

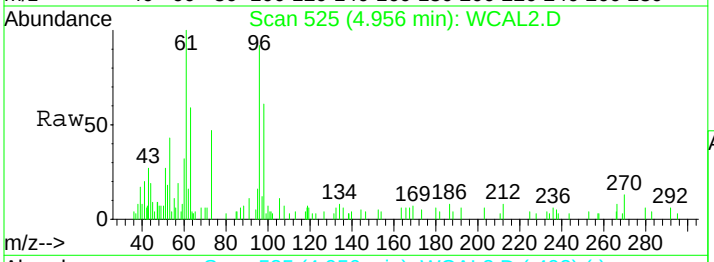
Tgt Ion: 74 Resp: 2240

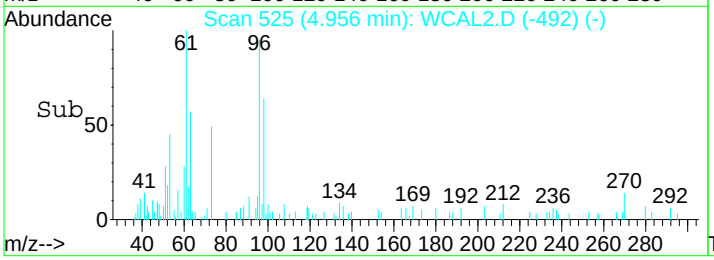
Ion	Ratio	Lower	Upper
74	100		
59	47.8	9.7	49.7



REASON # 2



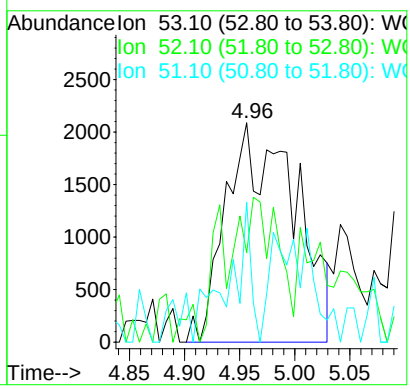




#22
Acrylonitrile
Concen: 7.13 ug/L
RT: 4.96 min Scan# 525
Delta R.T. 0.05 min
Lab File: WCAL2.D
Acq: 12 Nov 2019 11:06

Tgt Ion: 53 Resp: 9122

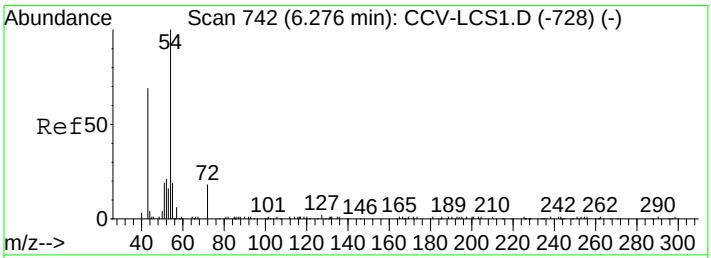
Ion	Ratio	Lower	Upper
53	100		
52	50.0	59.5	99.5#
51	11.4	15.4	55.4#

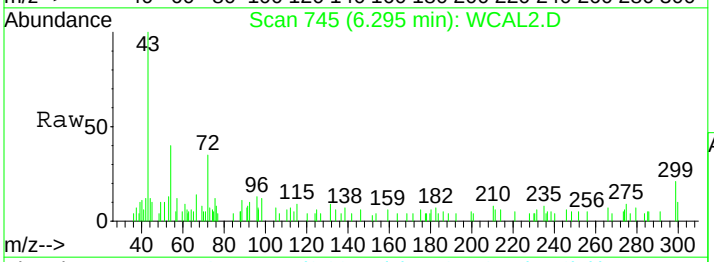


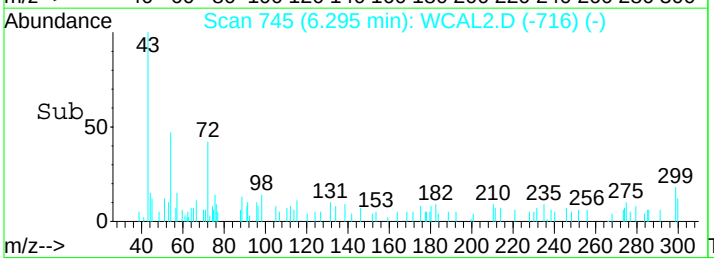
Before Manual Integration

12/10/2019

REASON # 2



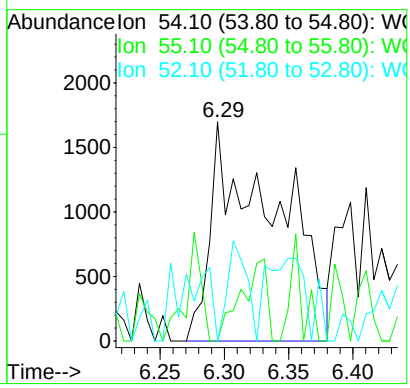




#34
propionitrile
Concen: 4.93 ug/L
RT: 6.29 min Scan# 745
Delta R.T. 0.02 min
Lab File: WCAL2.D
Acq: 12 Nov 2019 11:06

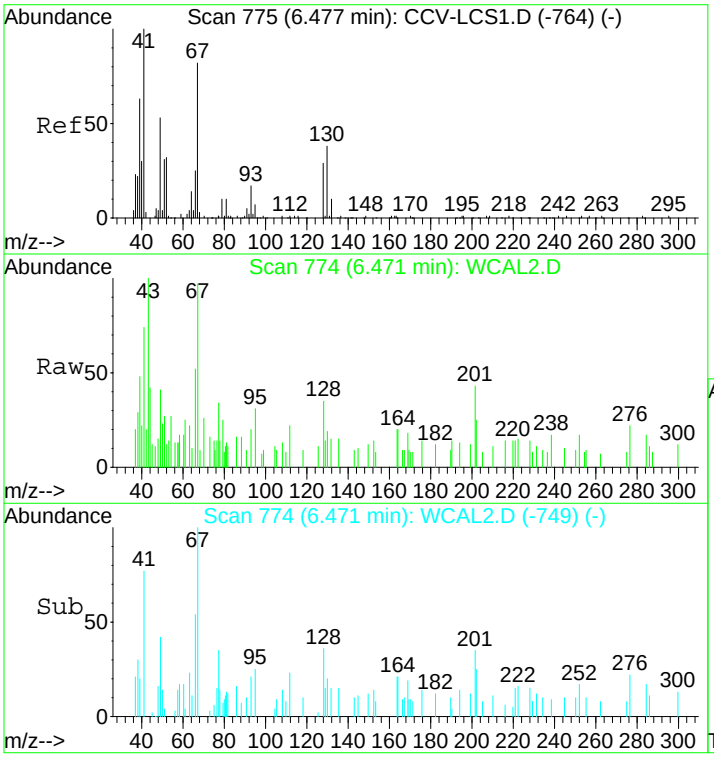
Tgt Ion: 54 Resp: 5917

Ion	Ratio	Lower	Upper
54	100		
55	0.0	0.0	39.0
52	24.4	2.9	42.9



REASON # 2

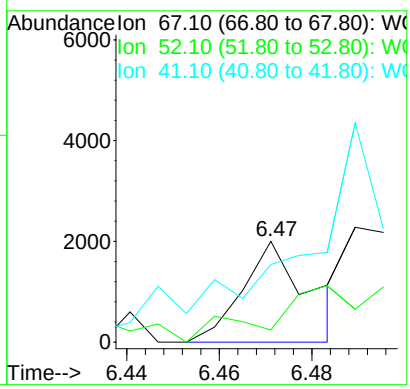
E-1315



#36
methacrylonitrile
Concen: 0.37 ug/L
RT: 6.47 min Scan# 774
Delta R.T. 0.00 min
Lab File: WCAL2.D
Acq: 12 Nov 2019 11:06

Tgt Ion: 67 Resp: 1971

Ion	Ratio	Lower	Upper
67	100		
52	0.0	15.7	55.7#
41	0.0	90.6	130.6#



Before Manual Integration

RJ 12/10/2019

REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL3.D Vial: 6
Acq On : 12 Nov 2019 11:36 Operator: RLD-DGS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:03:53 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:03:47 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1065763	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	822528	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	440314	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	273712	20.023	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.20	102	74686	20.067	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 100	%		
61) SURRd8Tolule	9.63	98	1039809	20.026	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100	%		
83) SURR4BrFBenz	13.18	95	405430	20.220	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	26970	1.9639	ug/L	86
3) Chloromethan	2.09	50	29011	2.0684	ug/L	92
4) VinylChlorid	2.24	62	35355	2.0938	ug/L	81
5) Bromomethane	2.70	94	18266	1.8689	ug/L	100
6) Chloroethane	2.86	64	31052	2.1121	ug/L	95
7) Dichloroflmethane	3.16	67	53353	2.0779	ug/L	95
8) Trichlorofma	3.24	101	42013	1.9220	ug/L	92
9) Ethylether	3.68	59	20613	2.1893	ug/L	97
10) dichlorotfluoroethan	3.68	67	27552	1.9548	ug/L	97
11) propyleneoxide	3.74	58	9734	8.7173	ug/L #	83
12) Acrolein	3.84	56	15604	9.8955	ug/L #	61
13) 11dichlorthe	3.95	96	24828	2.0204	ug/L	96
14) Trichlorotfluoroeth	3.99	101	42444	3.8510	ug/L	95
15) Acetone	4.04	43	51135	22.0700	ug/L	97
16) Iodomethane	4.13	142	7877	2.6499	ug/L #	70
17) Carbon Dislf	4.21	76	132345	4.1883	ug/L	99
18) allylchloride	4.43	41	71951	4.0720	ug/L	94
19) methylacetate	4.50	74	8704	2.3883	ug/L	78
20) Methylchlorid	4.59	84	31517	1.8904	ug/L	95
21) tbutylalcohol	4.80	59	94104	112.3922	ug/L	97
22) Acrylonitrile	4.93	53	22691	8.9433	ug/L	91
23) t12dichlorte	4.96	96	27950	2.0808	ug/L	97
24) MtBE	4.98	73	79391	2.0819	ug/L	98
25) Hexane	5.35	57	54475	3.7802	ug/L	94
26) 11dichlorota	5.49	63	54456	2.2513	ug/L	99
27) Vinylacetate	5.59	43	358126	23.5966	ug/L	94
28) chloroprene	5.61	53	69305	3.9973	ug/L	96
29) Diisopether	5.62	45	79180	2.1917	ug/L	99
30) ETBE	6.07	59	77611	2.1491	ug/L	98
31) 22dichloropr	6.21	77	43914	2.0951	ug/L	99
32) c12dichlorte	6.22	96	29536	1.8051	ug/L #	87
33) 2Butanone	6.25	72	25573	20.9008	ug/L	76
34) propionitrile	6.31	54	19902	21.6233	ug/L	83
35) Ethylacetate	6.35	88	4803	9.9406	ug/L #	79
36) methacrylonitrile	6.49	67	15522	4.5307	ug/L #	65
37) Bromochlorma	6.50	128	14522	1.9193	ug/L #	90
38) Tetrahydofur	6.59	42	66943	20.8623	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL3.D Vial: 6
Acq On : 12 Nov 2019 11:36 Operator: RLD-DGS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:03:53 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:03:47 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.60	83	58063	2.2110 ug/L		97
40)	111trichlota	6.84	97	43783	1.9284 ug/L		96
42)	Cyclohexane	6.92	56	34735	1.9569 ug/L		94
43)	Carbtetraclo	7.06	119	36032	2.1093 ug/L		98
44)	11dicloprope	7.05	110	12055	1.7869 ug/L	#	75
46)	Benzene	7.29	78	125016	2.1020 ug/L		97
47)	12dichlorota	7.30	62	40201	2.0229 ug/L		91
48)	TAME	7.46	73	75505	2.0101 ug/L		97
49)	trichloroete	8.10	95	29721	1.9658 ug/L		95
50)	methylcyclohexane	8.36	83	42448	1.9873 ug/L		99
51)	12dicloropra	8.36	63	29346	1.9633 ug/L		96
52)	23Dicl1propene	8.42	75	43248	2.0321 ug/L		96
53)	Dibromometha	8.50	93	16440	1.7838 ug/L		85
54)	methylmethacrylate	8.55	69	14857	1.6633 ug/L		97
55)	14dioxane	8.55	88	5346	69.0007 ug/L	#	49
56)	Bromodiclrma	8.70	83	39241	2.1159 ug/L		95
57)	2Nitropropane	8.97	43	65473	19.7685 ug/L		96
58)	2CLEVE	9.09	63	38075	7.3923 ug/L		93
59)	c13dicloproe	9.28	75	40834	1.9143 ug/L		97
60)	4Meth2Pentan	9.47	43	225633	21.7902 ug/L		97
62)	Toluene	9.72	92	81016	2.1052 ug/L		93
63)	t13Dicloprop	9.99	75	38589	2.0935 ug/L		92
64)	ethylmethacrylate	10.14	69	69348	4.0876 ug/L		97
65)	112Triclotha	10.22	83	22348	1.9699 ug/L		96
66)	Tetrachlorte	10.44	166	29281	1.9316 ug/L		93
67)	13Diclorpropa	10.44	76	52260	2.2063 ug/L		93
69)	2Hexanone	10.57	43	153127	20.8341 ug/L		97
70)	Clorodibrmta	10.75	129	25950	2.0093 ug/L		95
71)	12Dibrometha	10.91	107	24647	2.0683 ug/L		95
72)	Chlorobenzen	11.59	112	87181	2.1330 ug/L		94
73)	1Clhexane	11.56	91	34368	1.9476 ug/L		84
74)	1112Tetclota	11.68	131	27382	1.9560 ug/L		92
75)	Ethylbenzene	11.75	91	137301	2.1066 ug/L		96
76)	m p-Xylene	11.90	106	103563	4.2636 ug/L		93
77)	o-Xylene	12.45	106	55887	2.4015 ug/L		95
78)	Styrene	12.46	104	76433	2.1160 ug/L		100
79)	Bromoform	12.70	173	14832	2.0111 ug/L		91
80)	Isopropylben	12.97	105	123033	2.0819 ug/L		100
81)	cyclohexanone	13.06	55	10477	44.5933 ug/L	#	90
84)	Bromobenzene	13.38	156	35400	2.1226 ug/L		96
85)	1122Tetrclta	13.36	83	37974	2.1104 ug/L		90
86)	123Triclproa	13.42	75	44788	2.0639 ug/L		99
87)	14dichloro2butene	13.44	53	7575	2.0722 ug/L		86
88)	n-Propylbenz	13.56	91	141617	2.0693 ug/L		99
89)	2chlorotolue	13.67	91	95640	2.2007 ug/L		97
90)	4chlorotolue	13.83	91	108173	2.1549 ug/L		97
91)	135Trimebenz	13.81	105	102291	2.1606 ug/L		99
92)	tbutylbenzen	14.28	119	84123	2.1142 ug/L		96
93)	124Trimetben	14.35	105	103902	2.1684 ug/L		99
94)	sbutylbenzen	14.60	105	114749	2.1433 ug/L		98
95)	13Diclorbenz	14.74	146	64539	2.2032 ug/L		95
96)	pIsopropylto	14.82	119	96255	1.9664 ug/L		94
97)	14dichlorobe	14.87	146	66537	2.0888 ug/L		88
98)	12dichlorobe	15.41	146	60834	2.0633 ug/L		93
99)	nButylbenzen	15.41	91	95487	2.2210 ug/L		96
100)	12dibromo3cl	16.50	157	6539	2.0960 ug/L		97
101)	135Trichlorobenzene	16.83	180	38230	2.1379 ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

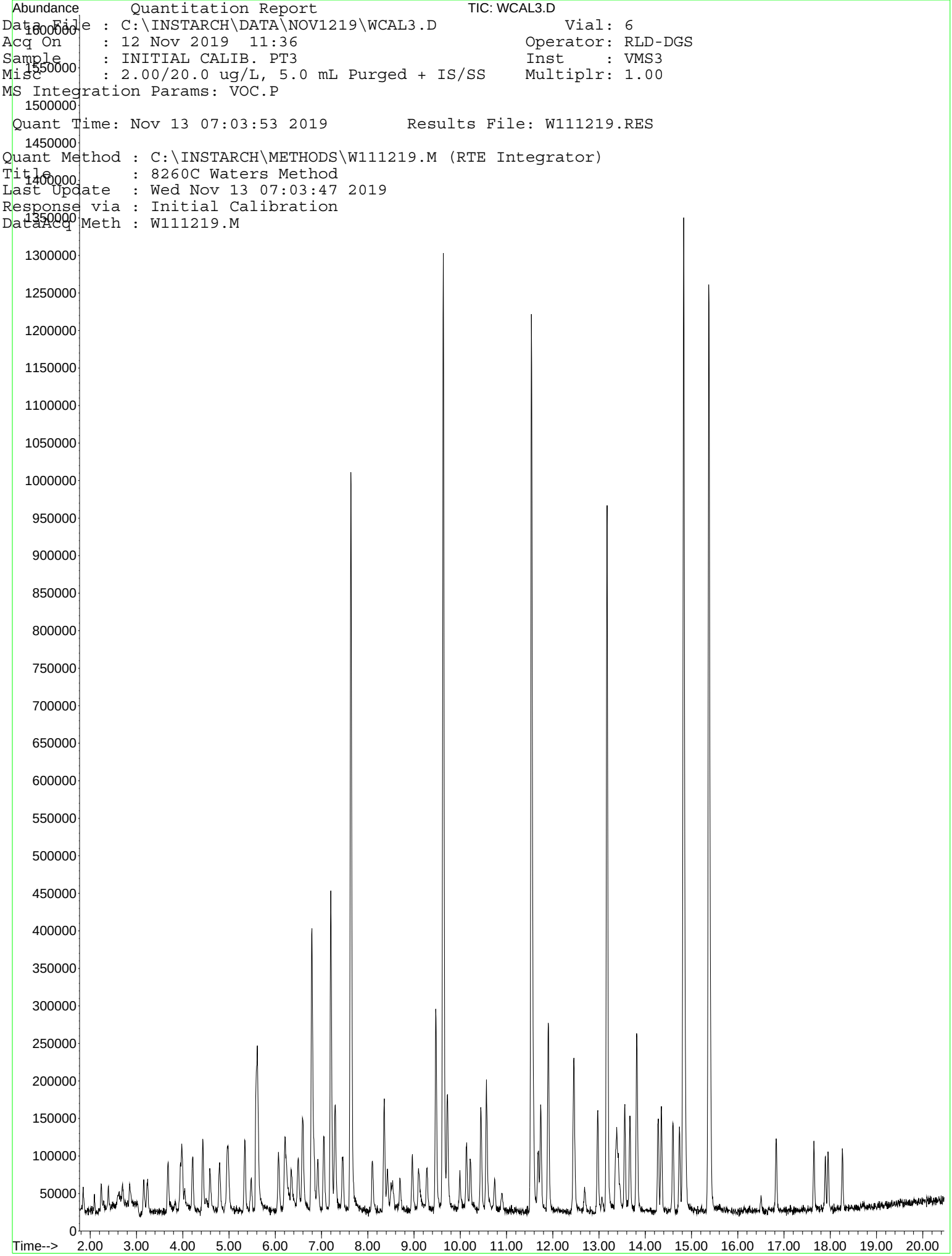
Data File : C:\INSTARCH\DATA\NOV1219\WCAL3.D Vial: 6
Acq On : 12 Nov 2019 11:36 Operator: RLD-DGS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:03:53 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:03:47 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	33275	2.1256	ug/L	91
103)	Hexachlorobu	17.89	225	14543	1.8345	ug/L	87
104)	Naphthalene	17.95	128	76282	2.0025	ug/L	99
105)	123Trichlben	18.27	180	28760	1.9315	ug/L	98

(#) = qualifier out of range (m) = manual integration


Abundance
Quantitation Report
TIC: WCAL3.D
Data File : C:\INSTARCH\DATA\NOV1219\WCAL3.D
Vial: 6
Acq On : 12 Nov 2019 11:36
Operator: RLD-DGS
Sample : INITIAL CALIB. PT3
Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC.P
Quant Time: Nov 13 07:03:53 2019
Results File: W111219.RES
Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:03:47 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
Time-->

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL4.D Vial: 7
Acq On : 12 Nov 2019 12:06 Operator: RLD-DGS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:09 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:00 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1102951	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	845959	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	458791	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	279597	19.758	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	82882	21.500	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 108 %			
61) SURRd8Tolule	9.63	98	1088261	20.246	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 101 %			
83) SURR4BrFBenz	13.18	95	424214	20.249	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	66392	4.6926	ug/L	96
3) Chloromethan	2.09	50	71121	4.8582	ug/L	95
4) VinylChlorid	2.24	62	84654	4.7883	ug/L	97
5) Bromomethane	2.70	94	53841	5.4419	ug/L	99
6) Chloroethane	2.86	64	72806	4.6974	ug/L	93
7) Dichloroflmethane	3.16	67	124656	4.6460	ug/L	98
8) Trichlorofma	3.24	101	103411	4.6163	ug/L	99
9) Ethylether	3.67	59	50288	5.0417	ug/L	99
10) dichlorotfluoroethan	3.68	67	70529	4.8627	ug/L	97
11) propyleneoxide	3.74	58	45062	48.0258	ug/L	96
12) Acrolein	3.82	56	45328	27.8732	ug/L	97
13) 11dichlorthe	3.95	96	58617	4.5974	ug/L	94
14) Trichlorotfluoroeth	3.98	101	108617	9.6123	ug/L	96
15) Acetone	4.03	43	130196	52.9287	ug/L	99
16) Iodomethane	4.13	142	30313	11.1029	ug/L	92
17) Carbon Dislf	4.21	76	332632	10.0535	ug/L	99
18) allylchloride	4.43	41	182449	9.9326	ug/L	99
19) methylacetate	4.50	74	27521	6.8534	ug/L	98
20) Methylchlorid	4.59	84	77184	4.5356	ug/L	97
21) tbutylalcohol	4.80	59	239216	267.7764	ug/L	98
22) Acrylonitrile	4.92	53	70619	27.8769	ug/L	93
23) t12dichlorte	4.96	96	69935	4.9806	ug/L	99
24) MtBE	4.98	73	204428	5.1276	ug/L	97
25) Hexane	5.34	57	149405	10.1577	ug/L	98
26) 11dichlorota	5.49	63	125946	4.8781	ug/L	99
27) Vinylacetate	5.58	43	962085	58.6183	ug/L	99
28) chloroprene	5.61	53	185312	10.3296	ug/L	99
29) Diisopether	5.62	45	192668	5.0326	ug/L	96
30) ETBE	6.07	59	194647	5.1129	ug/L	97
31) 22dichloropr	6.21	77	105980	4.8284	ug/L	98
32) c12dichlorte	6.22	96	81247	4.9178	ug/L	98
33) 2Butanone	6.23	72	73489	57.1790	ug/L	89
34) propionitrile	6.29	54	55352	56.5809	ug/L	94
35) Ethylacetate	6.35	88	13434	26.9197	ug/L #	81
36) methacrylonitrile	6.48	67	56545	15.2730	ug/L	99
37) Bromochlorma	6.49	128	38693	4.9918	ug/L #	84
38) Tetrahydofur	6.57	42	160935	47.9463	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL4.D Vial: 7
Acq On : 12 Nov 2019 12:06 Operator: RLD-DGS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:09 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:00 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	139886	5.0150	ug/L	100
40)	111trichlota	6.84	97	111447	4.7859	ug/L	96
42)	Cyclohexane	6.92	56	86882	4.7554	ug/L	95
43)	Carbtetraclo	7.06	119	88449	4.9357	ug/L	98
44)	11dicloprope	7.04	110	32156	4.7753	ug/L	93
46)	Benzene	7.29	78	299985	4.8126	ug/L	97
47)	12dichlorota	7.30	62	106277	5.1527	ug/L	99
48)	TAME	7.46	73	192654	4.9496	ug/L	96
49)	trichloroete	8.10	95	76758	4.9268	ug/L	97
50)	methylcyclohexane	8.35	83	109021	4.9398	ug/L	96
51)	12dicloropra	8.35	63	75577	4.9082	ug/L	83
52)	23Dicl1propene	8.42	75	107814	4.8690	ug/L	96
53)	Dibromometha	8.51	93	45409	4.9389	ug/L	93
54)	methylmethacrylate	8.53	69	46286	5.3048	ug/L	95
55)	14dioxane	8.55	88	18800	261.4898	ug/L	89
56)	Bromodiclrma	8.70	83	104318	5.3576	ug/L	98
57)	2Nitropropane	8.96	43	167031	48.8732	ug/L	96
58)	2CLEVE	9.09	63	126264	25.9429	ug/L	97
59)	c13dicloproe	9.28	75	119999	5.4947	ug/L	94
60)	4Meth2Pentan	9.47	43	578795	52.8294	ug/L	97
62)	Toluene	9.72	92	211621	5.2446	ug/L	97
63)	t13Dicloprop	9.99	75	101389	5.2536	ug/L	98
64)	ethylmethacrylate	10.13	69	182576	10.3234	ug/L	99
65)	112Triclotha	10.22	83	57638	4.9340	ug/L	97
66)	Tetrachlorte	10.46	166	75772	4.8716	ug/L	95
67)	13Diclorpropa	10.44	76	116040	4.6147	ug/L	99
69)	2Hexanone	10.57	43	398422	51.9843	ug/L	100
70)	Clorodibrmta	10.75	129	67987	5.1125	ug/L	99
71)	12Dibrometha	10.89	107	65701	5.3153	ug/L	94
72)	Chlorobenzen	11.58	112	212676	4.9766	ug/L	99
73)	1Clhexane	11.56	91	89582	4.9685	ug/L	93
74)	1112Tetclota	11.68	131	70396	4.9255	ug/L	98
75)	Ethylbenzene	11.74	91	350512	5.1602	ug/L	98
76)	m p-Xylene	11.90	106	273009	10.7512	ug/L	96
77)	o-Xylene	12.45	106	131747	5.2415	ug/L	98
78)	Styrene	12.46	104	213807	5.6729	ug/L	97
79)	Bromoform	12.69	173	37210	4.8966	ug/L	97
80)	Isopropylben	12.97	105	315379	5.1362	ug/L	100
81)	cyclohexanone	13.07	55	24692	98.4185	ug/L	93
84)	Bromobenzene	13.39	156	87778	4.9750	ug/L	97
85)	1122Tetrclta	13.36	83	91852	4.8324	ug/L	92
86)	123Triclproa	13.41	75	110221	4.8232	ug/L	98
87)	14dichloro2butene	13.45	53	21122	5.4795	ug/L	84
88)	n-Propylbenz	13.56	91	371528	5.1654	ug/L	98
89)	2chlorotolue	13.67	91	232678	5.0125	ug/L	99
90)	4chlorotolue	13.82	91	274581	5.1499	ug/L	98
91)	135Trimebenz	13.81	105	274859	5.4622	ug/L	97
92)	tbutylbenzen	14.28	119	219166	5.2119	ug/L	100
93)	124Trimetben	14.35	105	271913	5.3339	ug/L	97
94)	sbutylbenzen	14.60	105	316521	5.5740	ug/L	99
95)	13Diclorbenz	14.74	146	163244	5.2158	ug/L	99
96)	pIsopropylto	14.81	119	271373	5.3431	ug/L	98
97)	14dichlorobe	14.87	146	172582	5.1426	ug/L	95
98)	12dichlorobe	15.41	146	159151	5.1399	ug/L	98
99)	nButylbenzen	15.41	91	243859	5.2973	ug/L	99
100)	12dibromo3cl	16.50	157	15270	4.6235	ug/L	98
101)	135Trichlorobenzene	16.83	180	98529	5.1985	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL4.D Vial: 7
Acq On : 12 Nov 2019 12:06 Operator: RLD-DGS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:09 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:00 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	85571	5.1651	ug/L	96
103)	Hexachlorobu	17.90	225	37593	4.6472	ug/L	94
104)	Naphthalene	17.95	128	211100	5.3168	ug/L	100
105)	123Trichlben	18.26	180	76570	4.9780	ug/L	99

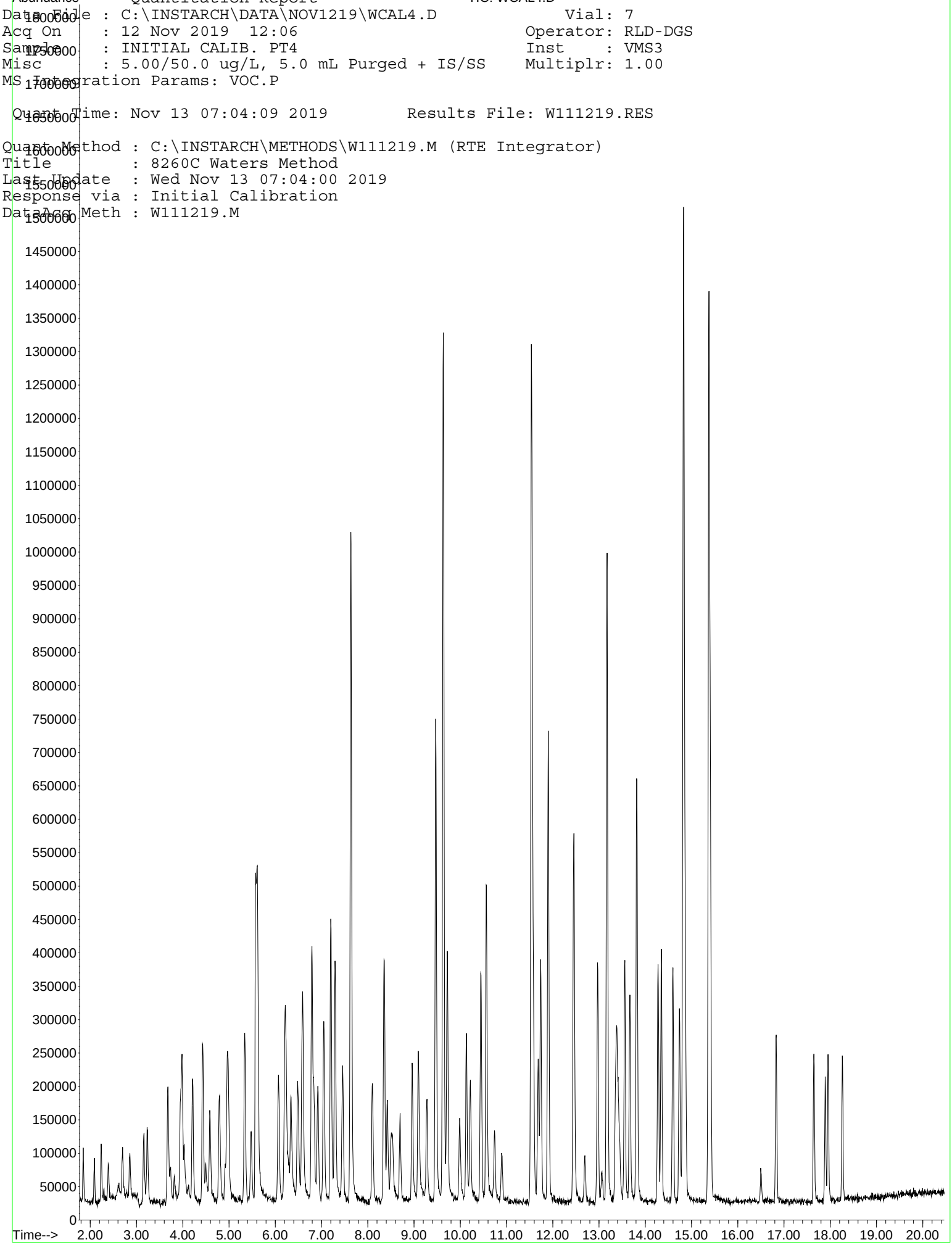
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL4.D

Data File : C:\INSTARCH\DATA\NOV1219\WCAL4.D Vial: 7
Acq On : 12 Nov 2019 12:06 Operator: RLD-DGS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:09 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:00 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL5.D Vial: 8
Acq On : 12 Nov 2019 12:35 Operator: RLD-DGS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:28 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:15 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1084091	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	832091	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	460945	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	277350	19.988	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.20	102	74368	19.337	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 97	%		
61) SURRd8Tolule	9.63	98	1058094	19.978	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100	%		
83) SURR4BrFBenz	13.18	95	418829	19.849	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 99	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	157507	11.4674	ug/L	100
3) Chloromethan	2.09	50	135148	9.4459	ug/L	100
4) VinylChlorid	2.24	62	181409	10.5287	ug/L	100
5) Bromomethane	2.70	94	103429	10.4059	ug/L	100
6) Chloroethane	2.85	64	138631	9.2398	ug/L	100
7) Dichloroflmethane	3.16	67	251858	9.6873	ug/L	100
8) Trichlorofma	3.23	101	242150	11.1691	ug/L	100
9) Ethylether	3.67	59	101738	10.3600	ug/L	100
10) dichlorotfluoroethan	3.68	67	156147	11.0135	ug/L	100
11) propyleneoxide	3.73	58	139098	152.3294	ug/L	99
12) Acrolein	3.82	56	101431	61.6849	ug/L	100
13) 11dichlorthe	3.95	96	136722	11.0884	ug/L	100
14) Trichlorotfluoroeth	3.98	101	259684	23.5637	ug/L	100
15) Acetone	4.03	43	262600	107.3547	ug/L	100
16) Iodomethane	4.12	142	94821	34.3867	ug/L	98
17) Carbon Dislf	4.21	76	687174	21.1080	ug/L	100
18) allylchloride	4.43	41	370828	20.5670	ug/L	100
19) methylacetate	4.51	74	52834	12.2506	ug/L	98
20) Methylchlorid	4.59	84	141869	8.6423	ug/L	100
21) tbutylalcohol	4.79	59	459026	515.4389	ug/L	99
22) Acrylonitrile	4.91	53	164581	64.2503	ug/L	100
23) t12dichlorte	4.96	96	139689	10.1293	ug/L	100
24) MtBE	4.99	73	377667	9.5888	ug/L	100
25) Hexane	5.34	57	358370	24.7108	ug/L	100
26) 11dichlorota	5.48	63	250084	9.9030	ug/L	100
27) Vinylacetate	5.57	43	1897793	113.7208	ug/L	100
28) chloroprene	5.61	53	407528	22.9602	ug/L	100
29) Diisopether	5.63	45	379153	10.0629	ug/L	100
30) ETBE	6.08	59	366421	9.7485	ug/L	100
31) 22dichloropr	6.20	77	222891	10.4028	ug/L	100
32) c12dichlorte	6.22	96	163860	10.1241	ug/L	100
33) 2Butanone	6.23	72	145891	111.4853	ug/L	100
34) propionitrile	6.27	54	124268	125.1198	ug/L	99
35) Ethylacetate	6.33	88	25470	50.9479	ug/L	100
36) methacrylonitrile	6.47	67	119191	28.9391	ug/L	100
37) Bromochlorma	6.50	128	67917	8.9174	ug/L	100
38) Tetrahydofur	6.58	42	319945	97.7807	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL5.D Vial: 8
Acq On : 12 Nov 2019 12:35 Operator: RLD-DGS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:28 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:15 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.59	83	262207	9.5580	ug/L	100
40)	111trichlota	6.84	97	247537	10.9085	ug/L	100
42)	Cyclohexane	6.92	56	213491	12.0059	ug/L	100
43)	Carbtetraclo	7.05	119	200034	11.3859	ug/L	100
44)	11dicloprope	7.04	110	73460	11.2251	ug/L	100
46)	Benzene	7.29	78	608517	10.0071	ug/L	100
47)	12dichlorota	7.30	62	197561	9.6860	ug/L	100
48)	TAME	7.46	73	384751	10.0772	ug/L	100
49)	trichloroete	8.10	95	157065	10.2869	ug/L	100
50)	methylcyclohexane	8.36	83	282253	13.0429	ug/L	100
51)	12dicloropra	8.36	63	149053	9.8847	ug/L	100
52)	23Dicl1propene	8.42	75	209633	9.6955	ug/L	99
53)	Dibromometha	8.50	93	92976	10.3200	ug/L	100
54)	methylmethacrylate	8.53	69	98477	11.3104	ug/L	100
55)	14dioxane	8.55	88	36661	512.8971	ug/L	100
56)	Bromodiclrma	8.70	83	197834	10.1913	ug/L	100
57)	2Nitropropane	8.96	43	360520	107.8092	ug/L	100
58)	2CLEVE	9.09	63	304328	63.0224	ug/L	100
59)	c13dicloproe	9.28	75	230729	10.5402	ug/L	100
60)	4Meth2Pentan	9.47	43	1115260	102.4071	ug/L	100
62)	Toluene	9.72	92	403824	10.0835	ug/L	100
63)	t13Dicloprop	9.99	75	206475	10.7756	ug/L	100
64)	ethylmethacrylate	10.13	69	381709	21.7824	ug/L	100
65)	112Triclotha	10.22	83	109296	9.5503	ug/L	100
66)	Tetrachlorte	10.45	166	163477	10.7484	ug/L	100
67)	13Diclorpropa	10.44	76	232986	9.5743	ug/L	100
69)	2Hexanone	10.56	43	813841	106.8955	ug/L	100
70)	Clorodibrmta	10.74	129	136639	10.3994	ug/L	100
71)	12Dibrometha	10.90	107	128250	10.4171	ug/L	100
72)	Chlorobenzen	11.58	112	406207	9.6727	ug/L	100
73)	1Clhexane	11.55	91	202169	11.4142	ug/L	100
74)	1112Tetclota	11.68	131	140056	10.0000	ug/L	100
75)	Ethylbenzene	11.74	91	700346	10.4155	ug/L	100
76)	m p-Xylene	11.90	106	548268	21.6259	ug/L	100
77)	o-Xylene	12.45	106	264146	10.5818	ug/L	100
78)	Styrene	12.46	104	426198	11.1954	ug/L	100
79)	Bromoform	12.69	173	77700	10.4493	ug/L	100
80)	Isopropylben	12.97	105	668404	11.0070	ug/L	100
81)	cyclohexanone	13.07	55	51942	211.3188	ug/L	100
84)	Bromobenzene	13.38	156	167025	9.4316	ug/L	100
85)	1122Tetrclta	13.36	83	175074	9.2297	ug/L	100
86)	123Triclproa	13.41	75	214411	9.4220	ug/L	100
87)	14dichloro2butene	13.44	53	38914	9.8127	ug/L	98
88)	n-Propylbenz	13.55	91	775372	10.6593	ug/L	100
89)	2chlorotolue	13.67	91	475210	10.1844	ug/L	100
90)	4chlorotolue	13.82	91	547436	10.1585	ug/L	99
91)	135Trimebenz	13.81	105	555472	10.7877	ug/L	100
92)	tbutylbenzen	14.28	119	471609	11.0690	ug/L	100
93)	124Trimetben	14.35	105	555841	10.7094	ug/L	100
94)	sbutylbenzen	14.60	105	668669	11.4574	ug/L	100
95)	13Diclorbenz	14.74	146	317541	10.0118	ug/L	100
96)	pIsopropylto	14.81	119	581133	11.2344	ug/L	100
97)	14dichlorobe	14.87	146	330910	9.7588	ug/L	100
98)	12dichlorobe	15.40	146	292109	9.3375	ug/L	100
99)	nButylbenzen	15.41	91	523163	11.1785	ug/L	100
100)	12dibromo3cl	16.50	157	30707	9.4316	ug/L	100
101)	135Trichlorobenzene	16.83	180	203997	10.6284	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL5.D Vial: 8
Acq On : 12 Nov 2019 12:35 Operator: RLD-DGS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:28 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:15 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

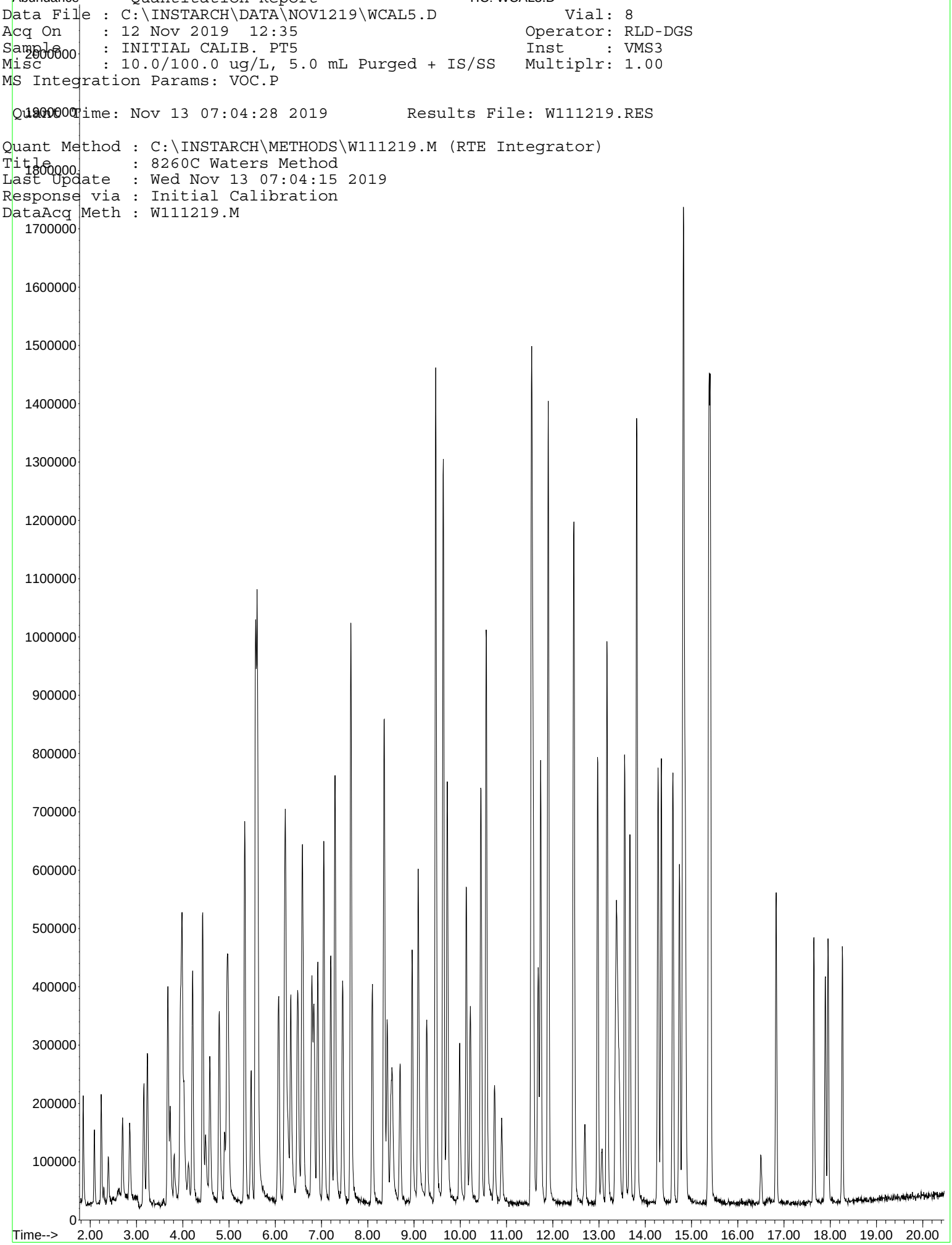
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	172381	10.2884	ug/L	100
103)	Hexachlorobu	17.89	225	86076	10.7425	ug/L	100
104)	Naphthalene	17.96	128	423491	10.4834	ug/L	99
105)	123Trichlben	18.27	180	153787	9.9601	ug/L	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219\WCAL5.D Vial: 8
Acq On : 12 Nov 2019 12:35 Operator: RLD-DGS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:28 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:15 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL6.D Vial: 9
Acq On : 12 Nov 2019 13:05 Operator: RLD-DGS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:44 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:34 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1169757	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	887447	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	501228	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	294626	19.690	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 98 %			
45) SURR12DCAd4	7.21	102	82870	19.970	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 100 %			
61) SURRd8Tolule	9.63	98	1109754	19.419	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 97 %			
83) SURR4BrFBenz	13.17	95	456614	19.892	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 99 %			

Target Compounds						Qvalue
2) Dichlorodi	1.85	85	320540	21.6280	ug/L	98
3) Chloromethan	2.08	50	277553	17.9784	ug/L	99
4) VinylChlorid	2.24	62	379670	20.4217	ug/L	100
5) Bromomethane	2.70	94	211359	19.6895	ug/L	93
6) Chloroethane	2.86	64	287615	17.7563	ug/L	98
7) Dichloroflmethane	3.16	67	507609	18.0946	ug/L	99
8) Trichlorofma	3.23	101	495822	21.1948	ug/L	99
9) Ethylether	3.67	59	205078	19.3537	ug/L	99
10) dichlorotfluoroethan	3.68	67	324273	21.1969	ug/L	98
11) propyleneoxide	3.73	58	152218	154.0521	ug/L	96
12) Acrolein	3.81	56	212741	119.9029	ug/L	94
13) 11dichlorthe	3.95	96	276246	20.7633	ug/L	97
14) Trichlorotfluoroeth	3.98	101	541680	45.5525	ug/L	98
15) Acetone	4.02	43	532839	201.8795	ug/L	98
16) Iodomethane	4.12	142	344000	117.8765	ug/L	99
17) Carbon Dislf	4.21	76	1384900	39.4247	ug/L	97
18) allylchloride	4.43	41	782517	40.2550	ug/L	99
19) methylacetate	4.49	74	107571	22.8964	ug/L	89
20) Methylchlorid	4.59	84	309985	17.5076	ug/L	95
21) tbutylalcohol	4.79	59	932896	970.8302	ug/L	98
22) Acrylonitrile	4.90	53	361898	130.9337	ug/L	99
23) t12dichlorte	4.96	96	302602	20.3356	ug/L	98
24) MtBE	4.98	73	786290	18.4949	ug/L	99
25) Hexane	5.34	57	737341	47.1186	ug/L	99
26) 11dichlorota	5.47	63	522433	19.1725	ug/L	99
27) Vinylacetate	5.57	43	3580823	198.8584	ug/L	95
28) chloroprene	5.61	53	842531	43.9920	ug/L	97
29) Diisopether	5.62	45	789548	19.4163	ug/L	100
30) ETBE	6.07	59	766229	18.8923	ug/L	99
31) 22dichloropr	6.20	77	476573	20.6138	ug/L	98
32) c12dichlorte	6.21	96	342833	19.6308	ug/L	98
33) 2Butanone	6.23	72	305586	216.2273	ug/L	98
34) propionitrile	6.27	54	271965	255.2702	ug/L	97
35) Ethylacetate	6.33	88	59252	109.8425	ug/L #	84
36) methacrylonitrile	6.47	67	243488	54.7884	ug/L	98
37) Bromochlorma	6.50	128	145630	17.7207	ug/L	94
38) Tetrahydofur	6.57	42	629743	178.3656	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL6.D Vial: 9
Acq On : 12 Nov 2019 13:05 Operator: RLD-DGS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:44 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:34 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.60	83	544187	18.3937 ug/L	100
40)	111trichlota	6.84	97	512143	20.9164 ug/L	97
42)	Cyclohexane	6.92	56	443266	23.1021 ug/L	99
43)	Carbtetraclo	7.06	119	413609	21.8184 ug/L	98
44)	11dicloprope	7.05	110	161139	22.8197 ug/L	95
46)	Benzene	7.29	78	1198135	18.2650 ug/L	97
47)	12dichlorota	7.29	62	410855	18.6682 ug/L	99
48)	TAME	7.46	73	794956	19.2962 ug/L	98
49)	trichloroete	8.10	95	318784	19.3495 ug/L	98
50)	methylcyclohexane	8.35	83	576607	24.6937 ug/L	95
51)	12dicloropra	8.36	63	315937	19.4143 ug/L	99
52)	23Dicl1propene	8.42	75	455652	19.5306 ug/L	98
53)	Dibromometha	8.50	93	191685	19.7182 ug/L	96
54)	methylmethacrylate	8.53	69	200102	21.2993 ug/L	96
55)	14dioxane	8.54	88	75520	979.1697 ug/L	98
56)	Bromodiclrma	8.70	83	414145	19.7721 ug/L	98
57)	2Nitropropane	8.96	43	773561	214.3833 ug/L	98
58)	2CLEVE	9.09	63	541417	103.9095 ug/L	99
59)	c13dicloproe	9.28	75	486767	20.6080 ug/L	100
60)	4Meth2Pentan	9.47	43	2078229	176.8551 ug/L	96
62)	Toluene	9.71	92	835051	19.3242 ug/L	98
63)	t13Dicloprop	9.98	75	441654	21.3613 ug/L	99
64)	ethylmethacrylate	10.13	69	794725	42.0435 ug/L	97
65)	112Triclotha	10.22	83	228729	18.5228 ug/L	99
66)	Tetrachlorte	10.45	166	352169	21.4589 ug/L	98
67)	13Diclorpropa	10.44	76	484884	18.4664 ug/L	98
69)	2Hexanone	10.56	43	1567425	193.0345 ug/L	96
70)	Clorodibrmta	10.74	129	293270	20.9281 ug/L	99
71)	12Dibrometha	10.90	107	270965	20.6363 ug/L	99
72)	Chlorobenzen	11.58	112	823905	18.3952 ug/L	99
73)	1Clhexane	11.56	91	426710	22.5887 ug/L	97
74)	1112Tetclota	11.68	131	307311	20.5734 ug/L	96
75)	Ethylbenzene	11.74	91	1418649	19.7820 ug/L	98
76)	m p-Xylene	11.90	106	1116358	41.2848 ug/L	98
77)	o-Xylene	12.45	106	560978	21.0712 ug/L	96
78)	Styrene	12.46	104	912421	22.4724 ug/L	98
79)	Bromoform	12.69	173	178658	22.5276 ug/L	97
80)	Isopropylben	12.97	105	1357547	20.9580 ug/L	97
81)	cyclohexanone	13.06	55	114689	437.4914 ug/L	96
84)	Bromobenzene	13.38	156	356196	18.4961 ug/L	99
85)	1122Tetrclta	13.36	83	377153	18.2839 ug/L	95
86)	123Triclproa	13.41	75	466008	18.8307 ug/L	97
87)	14dichloro2butene	13.45	53	96548	22.2640 ug/L	94
88)	n-Propylbenz	13.55	91	1575325	19.9145 ug/L	100
89)	2chlorotolue	13.67	91	972345	19.1626 ug/L	98
90)	4chlorotolue	13.82	91	1127350	19.2370 ug/L	99
91)	135Trimebenz	13.81	105	1165643	20.8169 ug/L	99
92)	tbutylbenzen	14.28	119	991928	21.4085 ug/L	99
93)	124Trimetben	14.35	105	1165920	20.6511 ug/L	98
94)	sbutylbenzen	14.60	105	1410277	22.2208 ug/L	98
95)	13Diclorbenz	14.74	146	660140	19.1397 ug/L	97
96)	pIsopropylto	14.81	119	1210943	21.5166 ug/L	97
97)	14dichlorobe	14.87	146	674370	18.2881 ug/L	95
98)	12dichlorobe	15.41	146	629283	18.4977 ug/L	98
99)	nButylbenzen	15.41	91	1113991	21.8836 ug/L	98
100)	12dibromo3cl	16.50	157	65713	18.5600 ug/L	91
101)	135Trichlorobenzene	16.83	180	435202	20.8506 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL6.D Vial: 9
Acq On : 12 Nov 2019 13:05 Operator: RLD-DGS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:44 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:34 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	372585	20.4489	ug/L	99
103) Hexachlorobu	17.89	225	186940	21.4540	ug/L	99
104) Naphthalene	17.95	128	892407	20.3106	ug/L	99
105) 123Trichlben	18.26	180	336254	20.0261	ug/L	99

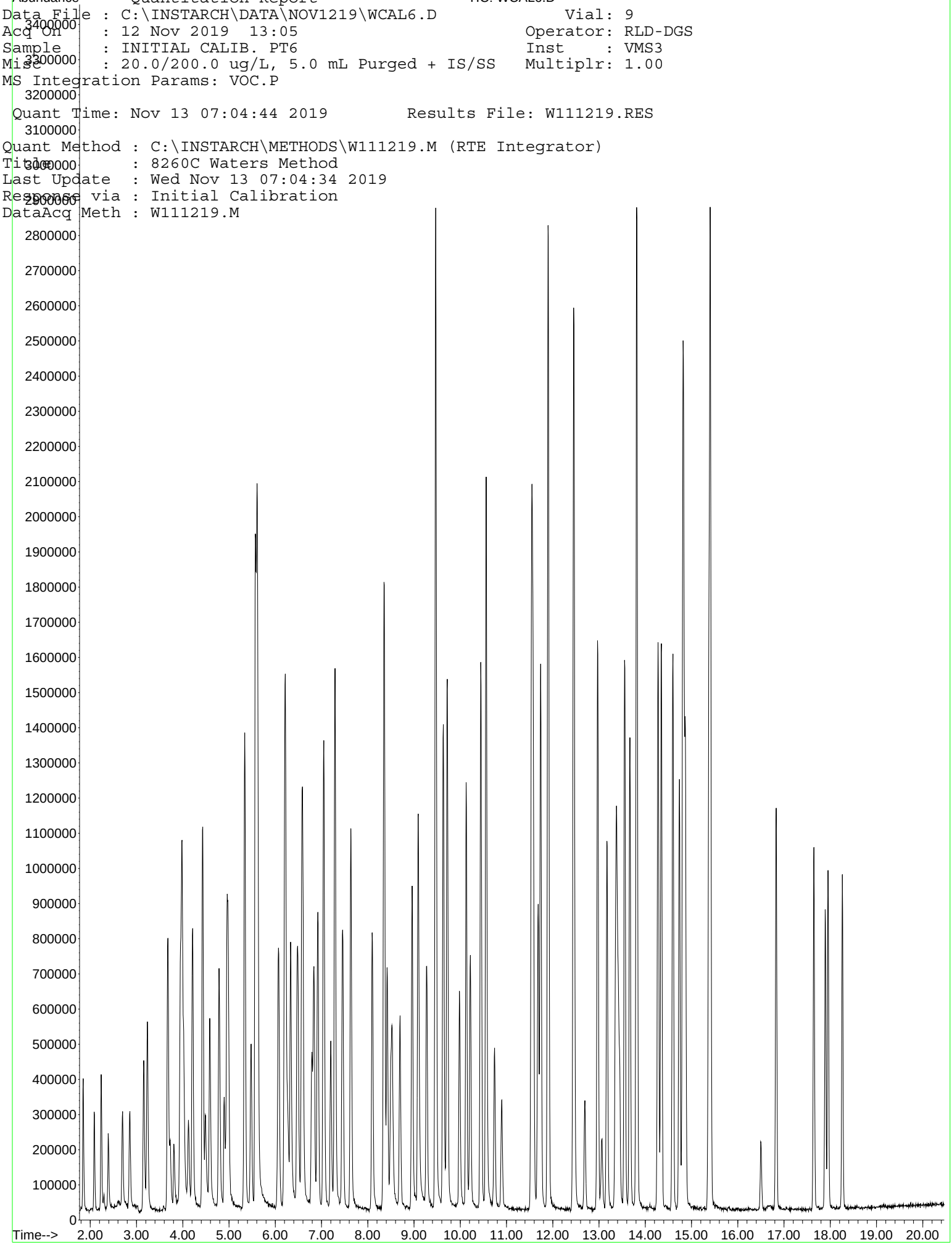
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL6.D

Data File : C:\INSTARCH\DATA\NOV1219\WCAL6.D Vial: 9
Acq On : 12 Nov 2019 13:05 Operator: RLD-DGS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:44 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:34 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL7.D Vial: 10
Acq On : 12 Nov 2019 13:34 Operator: RLD-DGS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:59 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:52 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1175368	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	900938	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	505284	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	300377	20.030	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100 %			
45) SURR12DCAd4	7.20	102	78868	18.919	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 95 %			
61) SURRd8Tolule	9.63	98	1130590	19.785	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.17	95	451099	19.511	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 98 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	477461	31.6331	ug/L	98
3) Chloromethan	2.09	50	399976	26.2265	ug/L	95
4) VinylChlorid	2.24	62	554455	29.5767	ug/L	100
5) Bromomethane	2.70	94	301786	28.0664	ug/L	94
6) Chloroethane	2.86	64	441943	27.7769	ug/L	99
7) Dichloroflmethane	3.16	67	752518	27.1275	ug/L	98
8) Trichlorofma	3.23	101	751899	31.6725	ug/L	99
9) Ethylether	3.67	59	335675	31.6980	ug/L	97
10) dichlorotfluoroethan	3.68	67	491088	31.6324	ug/L	98
11) propyleneoxide	3.73	58	439865	464.3770	ug/L	97
12) Acrolein	3.81	56	350053	188.8347	ug/L	94
13) 11dichlorthe	3.95	96	430316	31.9857	ug/L	99
14) Trichlorotfluoroeth	3.98	101	818563	66.9592	ug/L	98
15) Acetone	4.02	43	886824	333.8688	ug/L	98
16) Iodomethane	4.12	142	665244	163.2863	ug/L	98
17) Carbon Dislf	4.21	76	2039641	57.9253	ug/L	96
18) allylchloride	4.43	41	1178370	60.2654	ug/L	99
19) methylacetate	4.49	74	177968	36.6384	ug/L	91
20) Methylchlorid	4.59	84	464231	26.6476	ug/L	95
21) tbutylalcohol	4.79	59	1463429	1523.0705	ug/L	99
22) Acrylonitrile	4.89	53	589869	200.0195	ug/L	99
23) t12dichlorte	4.96	96	473422	31.5750	ug/L	96
24) MtBE	4.99	73	1210597	28.6994	ug/L	98
25) Hexane	5.34	57	1123573	69.3990	ug/L	99
26) 11dichlorota	5.47	63	783643	28.8200	ug/L	97
27) Vinylacetate	5.57	43	5027347	278.1219	ug/L	89
28) chloroprene	5.61	53	1262435	64.5289	ug/L	93
29) Diisopether	5.62	45	1215325	29.8896	ug/L	99
30) ETBE	6.07	59	1179245	29.2065	ug/L	98
31) 22dichloropr	6.20	77	733280	31.4054	ug/L	100
32) c12dichlorte	6.21	96	535923	30.6349	ug/L	99
33) 2Butanone	6.23	72	497636	344.8417	ug/L	97
34) propionitrile	6.26	54	446832	395.5392	ug/L	94
35) Ethylacetate	6.33	88	93283	168.7818	ug/L	96
36) methacrylonitrile	6.47	67	394515	82.2651	ug/L	96
37) Bromochlorma	6.50	128	236822	29.2350	ug/L	88
38) Tetrahydofur	6.57	42	999462	286.9043	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL7.D Vial: 10
Acq On : 12 Nov 2019 13:34 Operator: RLD-DGS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:59 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:52 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	847683	28.9021	ug/L	99
40)	111trichlota	6.84	97	788818	31.8192	ug/L	99
42)	Cyclohexane	6.92	56	701070	35.4475	ug/L	98
43)	Carbtetraclo	7.05	119	651569	33.6964	ug/L	98
44)	11dicloprope	7.05	110	237107	32.5012	ug/L	98
46)	Benzene	7.29	78	1777792	27.3679	ug/L	96
47)	12dichlorota	7.29	62	646805	29.5772	ug/L	99
48)	TAME	7.46	73	1225532	29.7804	ug/L	97
49)	trichloroete	8.10	95	493143	29.9522	ug/L	97
50)	methylcyclohexane	8.35	83	894909	36.7065	ug/L	97
51)	12dicloropra	8.35	63	490625	30.1521	ug/L	97
52)	23Dicl1propene	8.42	75	728637	31.2290	ug/L	98
53)	Dibromometha	8.50	93	306316	31.4482	ug/L	98
54)	methylmethacrylate	8.53	69	325650	34.0549	ug/L	96
55)	14dioxane	8.54	88	130785	1694.6842	ug/L	90
56)	Bromodiclrma	8.70	83	663447	31.5831	ug/L	99
57)	2Nitropropane	8.96	43	1252045	341.2429	ug/L	97
58)	2CLEVE	9.09	63	1033262	195.8272	ug/L	99
59)	c13dicloproe	9.28	75	778498	32.6362	ug/L	99
60)	4Meth2Pentan	9.47	43	3004359	259.4514	ug/L	91
62)	Toluene	9.72	92	1256273	29.0969	ug/L	96
63)	t13Dicloprop	9.98	75	716121	34.0843	ug/L	99
64)	ethylmethacrylate	10.13	69	1222720	63.7259	ug/L	95
65)	112Triclotha	10.22	83	361888	29.6035	ug/L	98
66)	Tetrachlorte	10.45	166	533247	31.9491	ug/L	98
67)	13Diclorpropa	10.44	76	767473	29.4656	ug/L	99
69)	2Hexanone	10.56	43	2340575	285.9261	ug/L	93
70)	Clorodibrmta	10.74	129	470572	32.8238	ug/L	99
71)	12Dibrometha	10.89	107	432176	32.2501	ug/L	99
72)	Chlorobenzen	11.58	112	1240359	27.6484	ug/L	98
73)	1Clhexane	11.56	91	664300	33.9079	ug/L	96
74)	1112Tetclota	11.68	131	477390	31.3015	ug/L	99
75)	Ethylbenzene	11.74	91	2082909	28.6617	ug/L	95
76)	m p-Xylene	11.90	106	1673967	60.6544	ug/L	91
77)	o-Xylene	12.44	106	860205	31.5452	ug/L	92
78)	Styrene	12.46	104	1415974	33.6590	ug/L	98
79)	Bromoform	12.69	173	289568	35.0792	ug/L	97
80)	Isopropylben	12.97	105	2002586	30.2120	ug/L	96
81)	cyclohexanone	13.06	55	187663	692.1627	ug/L	97
84)	Bromobenzene	13.38	156	565782	29.5133	ug/L	96
85)	1122Tetrclta	13.36	83	582560	28.4215	ug/L	98
86)	123Triclproa	13.42	75	758948	30.7818	ug/L	97
87)	14dichloro2butene	13.45	53	161394	36.1014	ug/L	92
88)	n-Propylbenz	13.55	91	2308136	28.9648	ug/L	96
89)	2chlorotolue	13.67	91	1449826	28.5425	ug/L	95
90)	4chlorotolue	13.82	91	1700248	28.9642	ug/L	97
91)	135Trimebenz	13.81	105	1711038	30.1067	ug/L	96
92)	tbutylbenzen	14.28	119	1494452	31.6242	ug/L	99
93)	124Trimetben	14.35	105	1739484	30.3980	ug/L	95
94)	sbutylbenzen	14.60	105	2035139	31.2309	ug/L	94
95)	13Diclorbenz	14.74	146	1011856	29.3118	ug/L	99
96)	pIsopropylto	14.81	119	1800153	31.3332	ug/L	94
97)	14dichlorobe	14.87	146	1026529	28.0144	ug/L	94
98)	12dichlorobe	15.40	146	955562	28.2164	ug/L	99
99)	nButylbenzen	15.41	91	1647330	31.6049	ug/L	96
100)	12dibromo3cl	16.50	157	107234	30.4831	ug/L	95
101)	135Trichlorobenzene	16.83	180	650487	30.6972	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL7.D Vial: 10
Acq On : 12 Nov 2019 13:34 Operator: RLD-DGS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:59 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:52 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	585965	31.7829	ug/L	98
103) Hexachlorobu	17.90	225	281132	31.6218	ug/L	97
104) Naphthalene	17.95	128	1416619	31.8999	ug/L	98
105) 123Trichlben	18.26	180	514299	30.3773	ug/L	99

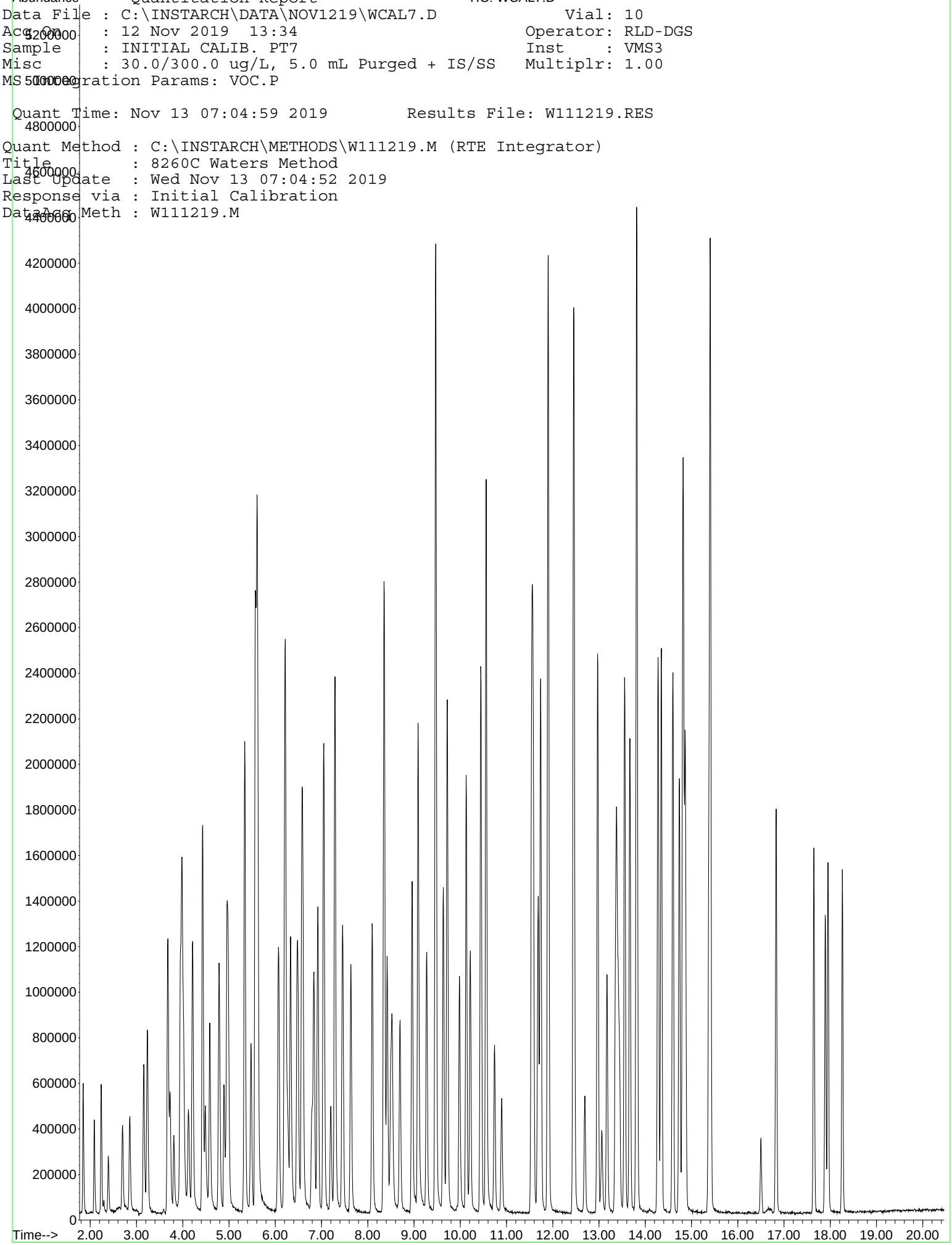
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL7.D

Data File : C:\INSTARCH\DATA\NOV1219\WCAL7.D Vial: 10
Acq On : 12 Nov 2019 13:34 Operator: RLD-DGS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:04:59 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:04:52 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL8.D Vial: 11
Acq On : 12 Nov 2019 14:03 Operator: RLD-DGS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:05:12 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:07 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1209915	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	935157	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	538095	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	314466	20.366	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 102	%		
45) SURR12DCAd4	7.20	102	87315	20.506	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 103	%		
61) SURRd8Tolule	9.63	98	1201362	20.455	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 102	%		
83) SURR4BrFBenz	13.18	95	481270	19.615	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 98	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	638248	40.7613	ug/L	95
3) Chloromethan	2.08	50	557420	36.1561	ug/L	98
4) VinylChlorid	2.24	62	758088	39.3640	ug/L	100
5) Bromomethane	2.70	94	422018	38.5414	ug/L	97
6) Chloroethane	2.86	64	596392	36.8694	ug/L	98
7) Dichloroflmethane	3.16	67	1025645	36.4158	ug/L	98
8) Trichlorofma	3.23	101	1019361	41.3833	ug/L	99
9) Ethylether	3.67	59	445065	40.5003	ug/L	97
10) dichlorotfluoroethan	3.68	67	660018	40.9812	ug/L	98
11) propyleneoxide	3.73	58	532720	500.6301	ug/L	99
12) Acrolein	3.81	56	476427	239.3408	ug/L	95
13) 11dichlorthe	3.95	96	583409	41.7323	ug/L	99
14) Trichlorotfluoroeth	3.98	101	1126000	88.0194	ug/L	99
15) Acetone	4.02	43	1163344	418.7137	ug/L	99
16) Iodomethane	4.12	142	992996	183.9875	ug/L	98
17) Carbon Dislf	4.21	76	2687386	74.5099	ug/L	95
18) allylchloride	4.43	41	1569715	77.9385	ug/L	98
19) methylacetate	4.49	74	234957	45.3182	ug/L	86
20) Methylchlorid	4.59	84	632566	35.8457	ug/L	93
21) tbutylalcohol	4.79	59	1937079	1954.1662	ug/L	98
22) Acrylonitrile	4.89	53	806754	251.7601	ug/L	99
23) t12dichlorte	4.96	96	630842	40.5685	ug/L	98
24) MtBE	4.99	73	1601855	37.1205	ug/L	98
25) Hexane	5.34	57	1495192	87.7518	ug/L	96
26) 11dichlorota	5.48	63	1070634	38.4665	ug/L	98
27) Vinylacetate	5.57	43	6044877	328.2850	ug/L	84
28) chloroprene	5.61	53	1689911	83.0176	ug/L	92
29) Diisopether	5.62	45	1624998	38.8444	ug/L	98
30) ETBE	6.07	59	1571431	37.9519	ug/L	97
31) 22dichloropr	6.21	77	985226	40.7186	ug/L	99
32) c12dichlorte	6.21	96	710352	39.3275	ug/L	98
33) 2Butanone	6.22	72	659406	433.1050	ug/L	96
34) propionitrile	6.26	54	599401	489.4648	ug/L	99
35) Ethylacetate	6.33	88	129072	222.2308	ug/L #	90
36) methacrylonitrile	6.47	67	525801	100.3068	ug/L	94
37) Bromochlorma	6.49	128	307119	36.9651	ug/L	91
38) Tetrahydofur	6.57	42	1302281	365.4359	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL8.D Vial: 11
Acq On : 12 Nov 2019 14:03 Operator: RLD-DGS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:05:12 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:07 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.60	83	1145035	38.1250	ug/L		99
40)	111trichlota	6.84	97	1074195	41.7320	ug/L		95
42)	Cyclohexane	6.92	56	941048	45.0539	ug/L		98
43)	Carbtetraclo	7.06	119	896827	44.2765	ug/L		98
44)	11dicloprope	7.04	110	341841	44.8957	ug/L		95
46)	Benzene	7.29	78	2320895	35.1490	ug/L		93
47)	12dichlorota	7.29	62	871991	38.8141	ug/L		100
48)	TAME	7.46	73	1633236	38.5947	ug/L		97
49)	trichloroete	8.10	95	680144	40.1397	ug/L		98
50)	methylcyclohexane	8.36	83	1208264	46.6544	ug/L		96
51)	12dicloropra	8.36	63	651837	38.8876	ug/L		99
52)	23Dicl1propene	8.42	75	958197	39.6247	ug/L		96
53)	Dibromometha	8.50	93	406310	40.1997	ug/L		96
54)	methylmethacrylate	8.52	69	449527	44.6610	ug/L		97
55)	14dioxane	8.54	88	185383	2284.1544	ug/L		94
56)	Bromodiclrma	8.70	83	872733	40.0578	ug/L		97
57)	2Nitropropane	8.96	43	1654377	429.5864	ug/L		98
58)	2CLEVE	9.09	63	1310569	229.6001	ug/L		97
59)	c13dicloproe	9.27	75	1031089	41.4705	ug/L		98
60)	4Meth2Pentan	9.47	43	3678571	314.6807	ug/L		86
62)	Toluene	9.72	92	1679564	37.9534	ug/L		92
63)	t13Dicloprop	9.98	75	947764	42.9855	ug/L		99
64)	ethylmethacrylate	10.13	69	1630047	81.6839	ug/L		94
65)	112Triclotha	10.22	83	487295	38.8095	ug/L		98
66)	Tetrachlorte	10.45	166	726092	41.8725	ug/L		98
67)	13Diclorpropa	10.44	76	995572	37.2264	ug/L		98
69)	2Hexanone	10.56	43	2948208	349.7106	ug/L		91
70)	Clorodibrmta	10.74	129	631528	41.8760	ug/L		99
71)	12Dibrometha	10.89	107	592118	42.1173	ug/L		99
72)	Chlorobenzen	11.58	112	1655297	35.9501	ug/L		98
73)	1Clhexane	11.56	91	915755	44.2098	ug/L		95
74)	1112Tetclota	11.68	131	643295	40.3444	ug/L		98
75)	Ethylbenzene	11.74	91	2705476	36.0963	ug/L		92
76)	m p-Xylene	11.90	106	2195159	76.5096	ug/L	#	86
77)	o-Xylene	12.45	106	1158261	40.6223	ug/L		88
78)	Styrene	12.46	104	1846603	41.5650	ug/L		95
79)	Bromoform	12.69	173	406051	46.0898	ug/L		98
80)	Isopropylben	12.97	105	2621173	38.0589	ug/L		93
81)	cyclohexanone	13.07	55	256178	887.5716	ug/L		94
84)	Bromobenzene	13.38	156	764284	37.5239	ug/L		96
85)	1122Tetrclta	13.36	83	768718	35.4835	ug/L		96
86)	123Triclproa	13.42	75	1011651	38.3625	ug/L		97
87)	14dichloro2butene	13.44	53	216134	43.9096	ug/L		93
88)	n-Propylbenz	13.55	91	2971365	35.1875	ug/L		94
89)	2chlorotolue	13.67	91	1908277	35.5237	ug/L		93
90)	4chlorotolue	13.82	91	2223134	35.7387	ug/L		94
91)	135Trimebenz	13.81	105	2269527	37.4796	ug/L		95
92)	tbutylbenzen	14.28	119	1997497	39.3871	ug/L		97
93)	124Trimetben	14.35	105	2272789	37.2252	ug/L		93
94)	sbutylbenzen	14.60	105	2675488	38.3294	ug/L		92
95)	13Diclorbenz	14.74	146	1356540	37.0218	ug/L		98
96)	pIsopropylto	14.81	119	2369863	38.4899	ug/L		91
97)	14dichlorobe	14.87	146	1375002	35.5727	ug/L		93
98)	12dichlorobe	15.40	146	1282328	35.8610	ug/L		98
99)	nButylbenzen	15.41	91	2186018	39.0838	ug/L		94
100)	12dibromo3cl	16.50	157	150860	40.1618	ug/L		92
101)	135Trichlorobenzene	16.83	180	895787	39.5641	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL8.D Vial: 11
Acq On : 12 Nov 2019 14:03 Operator: RLD-DGS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:05:12 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:07 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	785060	39.6488	ug/L	99
103)	Hexachlorobu	17.89	225	389894	40.8656	ug/L	97
104)	Naphthalene	17.95	128	1826868	38.2832	ug/L	96
105)	123Trichlben	18.26	180	680403	37.6701	ug/L	98

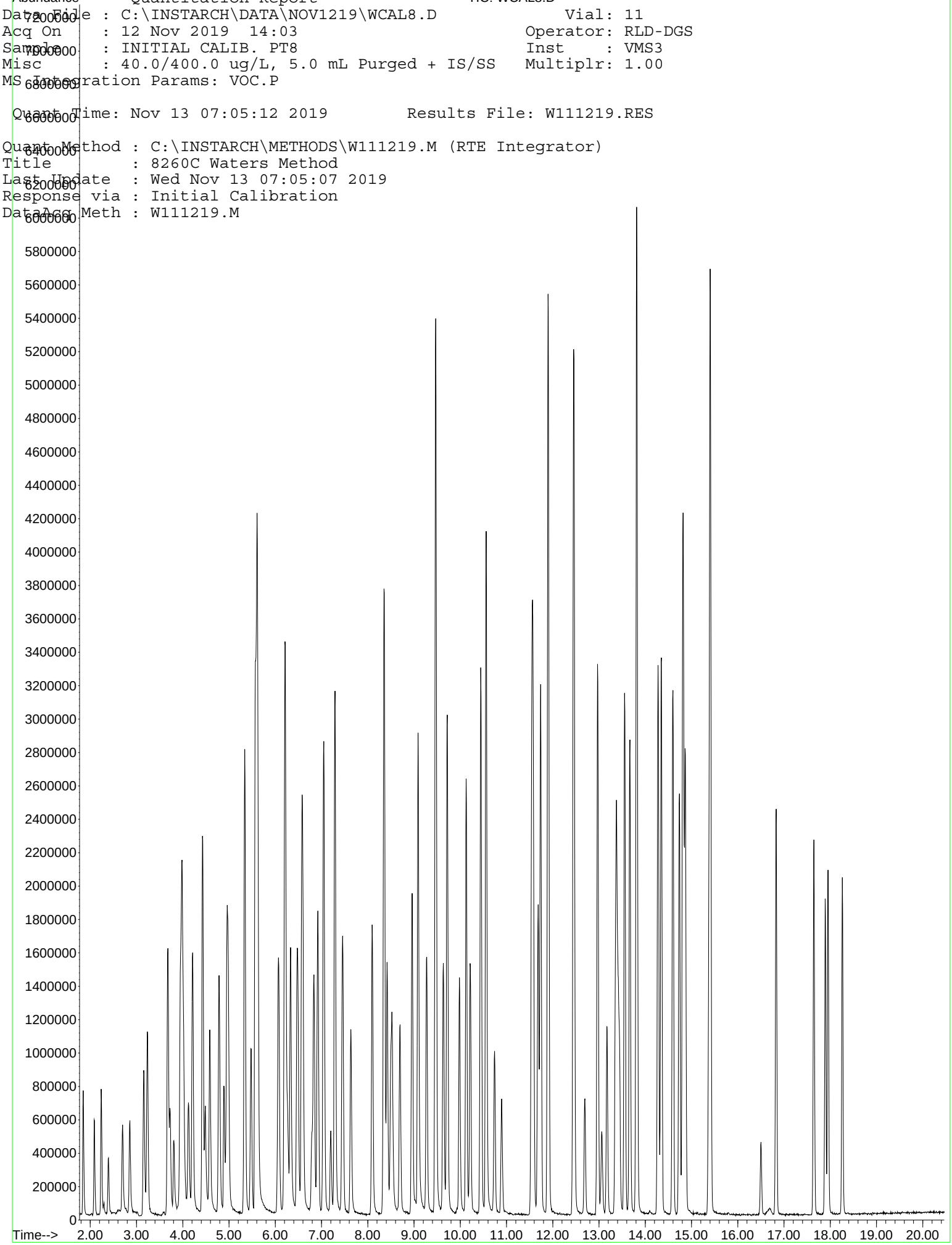
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL8.D

Data File : C:\INSTARCH\DATA\NOV1219\WCAL8.D Vial: 11
Acq On : 12 Nov 2019 14:03 Operator: RLD-DGS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:05:12 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:07 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL9.D Vial: 12
Acq On : 12 Nov 2019 14:33 Operator: RLD-DGS
Sample : INITIAL CALIB. PT9 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:05:27 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:20 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1268228	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	981017	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	578542	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	327959	20.217	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 101 %			
45) SURR12DCAd4	7.20	102	90186	20.143	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 101 %			
61) SURRd8Tolule	9.63	98	1241157	20.103	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 101 %			
83) SURR4BrFBenz	13.17	95	499066	18.964	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	1202550	73.0949	ug/L	95
3) Chloromethan	2.09	50	1053286	65.9708	ug/L	96
4) VinylChlorid	2.24	62	1415781	70.2744	ug/L	98
5) Bromomethane	2.70	94	897439	78.6009	ug/L	100
6) Chloroethane	2.86	64	1133990	67.6369	ug/L	99
7) Dichloroflmethane	3.16	67	1921447	65.8219	ug/L	96
8) Trichlorofma	3.23	101	1891116	72.9289	ug/L	98
9) Ethylether	3.67	59	883064	76.5431	ug/L	98
10) dichlorotfluoroethan	3.68	67	1260490	74.4382	ug/L	97
11) propyleneoxide	3.73	58	967048	836.9301	ug/L	95
12) Acrolein	3.81	56	988942	461.0130	ug/L	92
13) 11dichlorthe	3.95	96	1142471	77.5457	ug/L	96
14) Trichlorotfluoroeth	3.98	101	2088687	153.8377	ug/L	96
15) Acetone	4.02	43	2313626	789.8185	ug/L	96
16) Iodomethane	4.12	142	2103500	313.5949	ug/L	97
17) Carbon Dislf	4.21	76	4515828	120.4815	ug/L	89
18) allylchloride	4.43	41	2858883	135.8583	ug/L	94
19) methylacetate	4.49	74	514866	92.9747	ug/L	92
20) Methylchlorid	4.59	84	1245092	68.1971	ug/L	94
21) tbutylalcohol	4.79	59	3501111	3379.2743	ug/L	97
22) Acrylonitrile	4.89	53	1639653	470.7479	ug/L	98
23) t12dichlorte	4.96	96	1256797	76.9698	ug/L	95
24) MtBE	4.98	73	3014225	67.2433	ug/L	94
25) Hexane	5.34	57	2730129	151.0328	ug/L	93
26) 11dichlorota	5.48	63	2019624	69.5595	ug/L	94
27) Vinylacetate	5.57	43	8712942	461.7741	ug/L	70
28) chloroprene	5.61	53	3103672	144.7761	ug/L	89
29) Diisopether	5.62	45	3038625	69.5474	ug/L	93
30) ETBE	6.07	59	2946791	68.3335	ug/L	93
31) 22dichloropr	6.21	77	1944101	76.4820	ug/L	96
32) c12dichlorte	6.20	96	1410489	74.6558	ug/L	99
33) 2Butanone	6.22	72	1342745	831.5469	ug/L	94
34) propionitrile	6.27	54	1254135	946.7742	ug/L	96
35) Ethylacetate	6.33	88	278023	449.5401	ug/L #	82
36) methacrylonitrile	6.47	67	1082406	190.1022	ug/L	94
37) Bromochlorma	6.49	128	621506	72.0488	ug/L	88
38) Tetrahydofur	6.57	42	2424199	656.0679	ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL9.D Vial: 12
Acq On : 12 Nov 2019 14:33 Operator: RLD-DGS
Sample : INITIAL CALIB. PT9 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:05:27 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:20 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.60	83	2152018	68.7617 ug/L		97
40)	111trichlota	6.84	97	2050017	75.5712 ug/L		93
42)	Cyclohexane	6.92	56	1791627	80.5602 ug/L		97
43)	Carbtetraclo	7.05	119	1727082	80.2730 ug/L		93
44)	11dicloprope	7.05	110	686751	84.5686 ug/L	#	90
46)	Benzene	7.29	78	3991486	58.5577 ug/L		86
47)	12dichlorota	7.29	62	1709524	72.8656 ug/L		96
48)	TAME	7.46	73	3040218	68.8418 ug/L		92
49)	trichloroete	8.10	95	1322667	74.4376 ug/L		98
50)	methylcyclohexane	8.36	83	2263947	81.6989 ug/L		93
51)	12dicloropra	8.36	63	1307822	74.6948 ug/L		100
52)	23Dicl1propene	8.42	75	1888298	74.5971 ug/L		93
53)	Dibromometha	8.50	93	835620	78.8174 ug/L		97
54)	methylmethacrylate	8.52	69	938040	87.4544 ug/L		95
55)	14dioxane	8.54	88	369730	4259.6240 ug/L		92
56)	Bromodiclrma	8.70	83	1731136	75.7907 ug/L		96
57)	2Nitropropane	8.96	43	3119470	765.6979 ug/L		96
58)	2CLEVE	9.09	63	2429181	397.5970 ug/L		91
59)	c13dicloproe	9.28	75	2013459	76.9046 ug/L		95
60)	4Meth2Pentan	9.47	43	5688650	476.9734 ug/L		73
62)	Toluene	9.72	92	2996388	65.0124 ug/L		85
63)	t13Dicloprop	9.98	75	1872842	80.2874 ug/L		95
64)	ethylmethacrylate	10.13	69	2990883	142.5572 ug/L		90
65)	112Triclotha	10.22	83	977571	74.5938 ug/L		97
66)	Tetrachlorte	10.45	166	1414715	77.3802 ug/L		95
67)	13Diclorpropa	10.44	76	1938417	69.7531 ug/L		93
69)	2Hexanone	10.56	43	4740502	545.8258 ug/L		80
70)	Clorodibrmta	10.74	129	1292400	81.2155 ug/L		97
71)	12Dibrometha	10.89	107	1170311	78.8310 ug/L		99
72)	Chlorobenzen	11.58	112	2977386	62.4307 ug/L		92
73)	1Clhexane	11.56	91	1734531	78.7867 ug/L		94
74)	1112Tetclota	11.68	131	1280108	76.4353 ug/L		100
75)	Ethylbenzene	11.74	91	4463376	57.4674 ug/L		82
76)	m p-Xylene	11.90	106	3829549	127.9323 ug/L	#	73
77)	o-Xylene	12.45	106	2204136	73.5463 ug/L	#	78
78)	Styrene	12.46	104	3373168	72.0247 ug/L		89
79)	Bromoform	12.69	173	865047	91.6069 ug/L		98
80)	Isopropylben	12.97	105	4358734	60.6976 ug/L		83
81)	cyclohexanone	13.06	55	550830	1791.2174 ug/L		98
84)	Bromobenzene	13.38	156	1497060	68.8954 ug/L		94
85)	1122Tetrclta	13.36	83	1525371	66.4251 ug/L		98
86)	123Triclproa	13.42	75	2052790	72.8269 ug/L		97
87)	14dichloro2butene	13.44	53	472090	87.9758 ug/L		91
88)	n-Propylbenz	13.55	91	4757854	53.2045 ug/L		80
89)	2chlorotolue	13.67	91	3408985	59.8610 ug/L		86
90)	4chlorotolue	13.82	91	3885937	58.8864 ug/L		86
91)	135Trimebenz	13.81	105	3905916	60.4700 ug/L		87
92)	tbutylbenzen	14.28	119	3481684	63.9756 ug/L		91
93)	124Trimetben	14.35	105	3899405	59.9216 ug/L		85
94)	sbutylbenzen	14.60	105	4451546	59.6262 ug/L		82
95)	13Diclorbenz	14.74	146	2524775	64.6894 ug/L		92
96)	pIsopropylto	14.81	119	4016852	60.9661 ug/L		83
97)	14dichlorobe	14.87	146	2569536	62.6964 ug/L		90
98)	12dichlorobe	15.40	146	2413863	63.6083 ug/L		96
99)	nButylbenzen	15.41	91	3792183	63.2415 ug/L		86
100)	12dibromo3cl	16.50	157	323773	80.1222 ug/L		95
101)	135Trichlorobenzene	16.83	180	1712380	70.4390 ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219\WCAL9.D Vial: 12
Acq On : 12 Nov 2019 14:33 Operator: RLD-DGS
Sample : INITIAL CALIB. PT9 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:05:27 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:20 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	1513673	71.1804	ug/L	97
103)	Hexachlorobu	17.90	225	773760	75.2261	ug/L	97
104)	Naphthalene	17.95	128	3259025	63.8630	ug/L	90
105)	123Trichlben	18.26	180	1367563	70.9374	ug/L	99

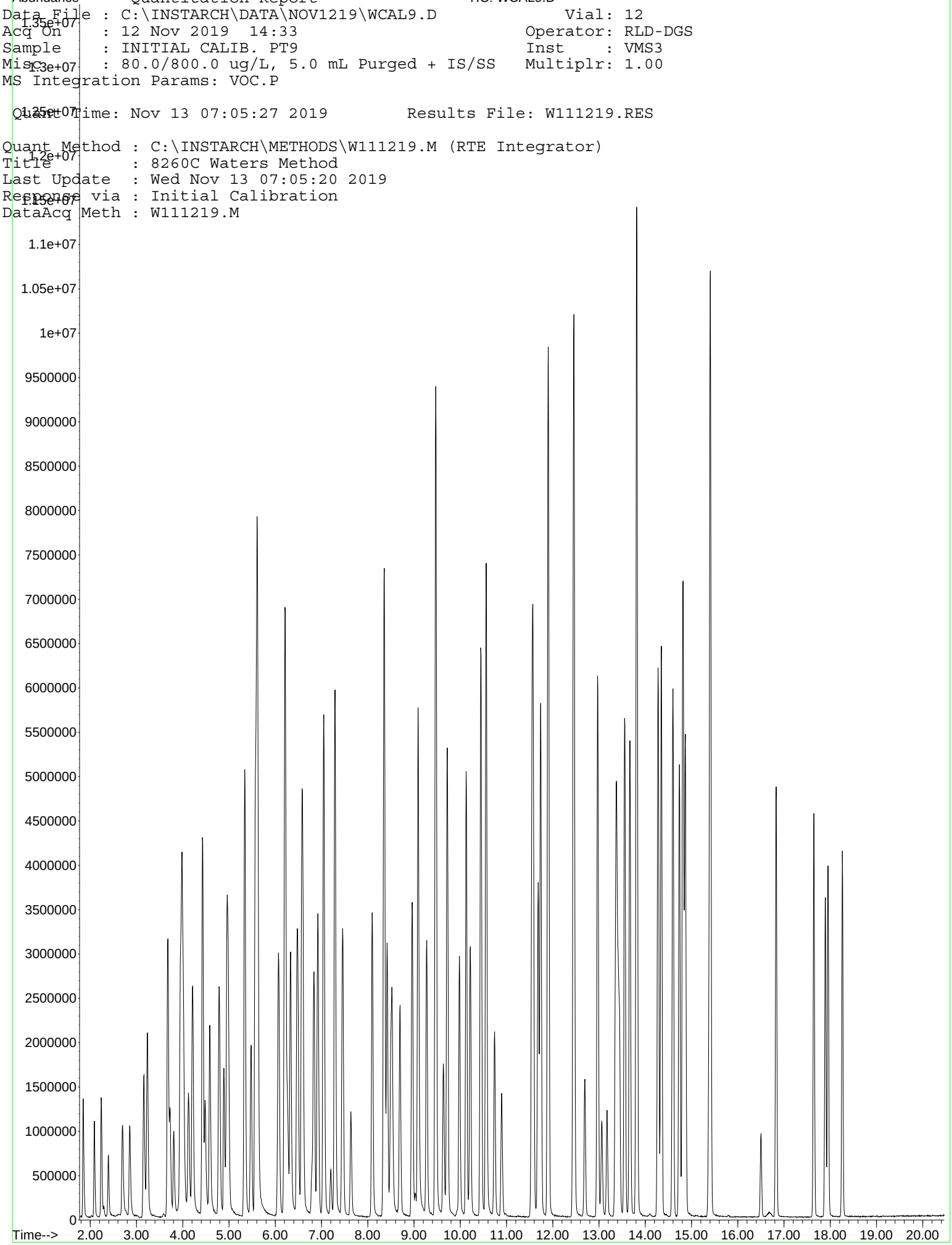
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL9.D

Data File : C:\INSTARCH\DATA\NOV1219\WCAL9.D Vial: 12
Acq On : 12 Nov 2019 14:33 Operator: RLD-DGS
Sample : INITIAL CALIB. PT9 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:05:27 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:05:20 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 14
Acq On : 12 Nov 2019 15:32 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 13 07:31:31 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	107	0.00
2	PT	Dichlorodi	0.2570	0.2851	-10.93	105	0.00
3	PT	Chloromethan	0.2469	0.2371	3.97	102	0.00
4	PT	VinylChlorid	0.3134	0.3117	0.54	100	0.00
5	PT	Bromomethane	0.1797	0.1945	-8.24	110	0.00
6	PT	Chloroethane	0.2593	0.2455	5.32	103	0.00
7	T	Dichloroflmethane	0.4513	0.4492	0.47	104	0.00
8	PT	Trichlorofma	0.4049	0.4139	-2.22	100	0.00
9	T	Ethylether	0.1811	0.1847	-1.99	106	0.00
10	T	dichlorotfluoroethan	0.2650	0.2794	-5.43	104	0.00
11	T	propyleneoxide	0.0192	0.0268#	-39.58#	112	0.00
12	T	Acrolein	0.0345	0.0354	-2.61	102	0.00
13	PT	11dichlorthe	0.2315	0.2271	1.90	97	0.00
14	PT	Trichlorotfluoroeth	0.2132	0.2303	-8.02	103	0.00
15	PT	Acetone	0.0461	0.0495#	-7.38	110	0.00
16	T	Iodomethane	0.1064	0.0936	12.03	115	0.00
17	PT	Carbon Dislf	0.5749	0.6229	-8.35	106	0.00
18	T	allylchloride	0.3263	0.3432	-5.18	108	0.00
19	PT	methylacetate	0.0958	0.0969#	-1.15	107	0.00
20	PT	Methylchlorid	0.2832	0.2488	12.15	102	0.00
21	T	tbutylalcohol	0.0161	0.0165#	-2.48	105	0.00
22	T	Acrylonitrile	0.0581	0.0592	-1.89	105	0.00
23	PT	t12dichlorte	0.2564	0.2538	1.01	106	0.00
24	PT	MtBE	0.6944	0.6994	-0.72	108	0.00
25	T	Hexane	0.2833	0.3301	-16.52	107	0.00
26	PT	11dichlorota	0.4512	0.4130	8.47	96	0.00
27	T	Vinylacetate	0.3058	0.3357	-9.78	103	0.00
28	T	chloroprene	0.3345	0.3593	-7.41	103	0.00
29	T	Diisopether	0.6790	0.6868	-1.15	106	0.00
30	T	ETBE	0.6690	0.6725	-0.52	107	0.00
31	T	22dichloropr	0.3989	0.3706	7.09	97	0.00
32	PT	c12dichlorte	0.2957	0.2699	8.73	96	0.00
33	PT	2Butanone	0.0256	0.0253#	1.17	101	0.00
34	T	propionitrile	0.0227	0.0211#	7.05	99	0.00
35	T	Ethylacetate	0.0099	0.0096#	3.03	110	0.00
36	T	methacrylonitrile	0.1011	0.1020	-0.89	100	0.00
37	T	Bromochlorma	0.1345	0.1226	8.85	105	0.00
38	T	Tetrahydofur	0.0571	0.0551	3.50	100	0.00
39	PT	Chloroform	0.4858	0.4545	6.44	101	0.01
40	PT	111trichlota	0.4252	0.4144	2.54	98	0.00
41	S	SURRDibrflma	0.2561	0.2548	0.51	107	0.00
42	PT	Cyclohexane	0.3510	0.3716	-5.87	101	0.00
43	PT	Carbtetraclo	0.3394	0.3436	-1.24	100	0.00
44	T	11dicloprope	0.1290	0.1259	2.40	100	0.00
45	S	SURR12DCAd4	0.0707	0.0724	-2.40	113	0.00
46	PT	Benzene	1.0429	1.0046	3.67	96	0.00
47	PT	12dichlorota	0.3663	0.3360	8.27	99	0.00
48	T	TAME	0.6856	0.6865	-0.13	104	0.00

49	PT	trichloroete	0.2780	0.2731	1.76	101	0.00
50	PT	methylcyclohexane	0.4380	0.4916	-12.24	101	0.00
51	PT	12dicloropra	0.2741	0.2635	3.87	103	0.00
52	T	23Dicl1propene	0.3958	0.3722	5.96	103	0.00
53	T	Dibromometha	0.1669	0.1525	8.63	96	0.00
54	T	methylmethacrylate	0.1711	0.1697	0.82	100	0.00
55	T	14dioxane	0.0014	0.0016#	-14.29	128	0.00
56	PT	Bromodiclrma	0.3581	0.3280	8.41	97	0.00
57	T	2Nitropropane	0.0639	0.0645	-0.94	104	0.00
58	T	2CLEVE	0.0963	0.1238	-28.56#	118	0.00
59	PT	c13dicloproe	0.4111	0.4117	-0.15	104	0.00
60	PT	4Meth2Pentan	0.1885	0.1945	-3.18	102	0.00
61	S	SURRd8Tolule	0.9742	0.9727	0.15	107	0.00
62	PT	Toluene	0.7117	0.6960	2.21	100	0.00
63	PT	t13Dicloprop	0.3680	0.3653	0.73	103	0.00
64	T	ethylmethacrylate	0.3264	0.3235	0.89	99	0.00
65	PT	112Triclotha	0.2049	0.1859	9.27	99	0.00
66	PT	Tetrachlorte	0.2873	0.2771	3.55	99	0.00
67	T	13Diclorpropa	0.4320	0.4150	3.94	104	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	109	0.00
69	PT	2Hexanone	0.1771	0.1779	-0.45	99	0.00
70	PT	Clorodibrmta	0.3250	0.2952	9.17	98	0.00
71	PT	12Dibrometha	0.3022	0.2892	4.30	102	0.00
72	PT	Chlorobenzen	0.9486	0.8761	7.64	98	0.00
73	T	1Clhexane	0.4481	0.4549	-1.52	102	0.00
74	T	1112Tetclota	0.3395	0.3044	10.34	99	0.00
75	PT	Ethylbenzene	1.5339	1.5463	-0.81	100	0.00
76	PT	m p-Xylene	0.5967	0.5954	0.22	98	0.00
77	PT	o-Xylene	0.6055	0.5871	3.04	101	0.00
78	PT	Styrene	0.9442	0.9385	0.60	100	0.00
79	PT	Bromoform	0.1960	0.1778	9.29	104	0.00
80	PT	Isopropylben	1.4248	1.4683	-3.05	100	0.00
81	T	cyclohexanone	0.0064	0.0068#	-6.25	118	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	106	0.00
83	S	SURR4BrFBenz	0.9045	0.9198	-1.69	107	0.00
84	T	Bromobenzene	0.7396	0.7002	5.33	103	0.00
85	PT	1122Tetrclta	0.7789	0.7364	5.46	103	0.00
86	T	123Triclproa	0.9635	0.9362	2.83	107	0.00
87	T	14dichloro2butene	0.1878	0.1947	-3.67	122	0.00
88	T	n-Propylbenz	2.9764	3.1508	-5.86	99	0.00
89	T	2chlorotolue	1.9136	1.8993	0.75	98	0.00
90	T	4chlorotolue	2.2144	2.2205	-0.28	99	0.00
91	T	135Trimebenz	2.1724	2.2411	-3.16	99	0.00
92	T	tbutylbenzen	1.8395	1.8994	-3.26	98	0.00
93	T	124Trimetben	2.1869	2.2596	-3.32	99	0.00
94	T	sbutylbenzen	2.5079	2.7213	-8.51	100	0.00
95	PT	13Diclorbenz	1.3205	1.2708	3.76	98	0.00
96	T	pIsopropylto	2.2175	2.2858	-3.08	96	0.00
97	PT	14dichlorobe	1.3827	1.3251	4.17	98	0.00
98	PT	12dichlorobe	1.2820	1.2007	6.34	101	0.00
99	T	nButylbenzen	2.0247	2.0794	-2.70	97	0.00
100	PT	12dibromo3cl	0.1397	0.1166	16.54	93	0.01
101	T	135Trichlorobenzene	0.8292	0.8366	-0.89	100	0.00
102	PT	124Trichlobe	0.7261	0.7206	0.76	102	0.00
103	T	Hexachlorobu	0.3532	0.3545	-0.37	101	0.00
104	T	Naphthalene	1.7246	1.7059	1.08	99	0.00
105	T	123Trichlben	0.6581	0.6067	7.81	96	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

W111219.M Tue Dec 10 11:08:44 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 14
Acq On : 12 Nov 2019 15:32 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 13 07:31:31 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	107	0.00
2	PT	Dichlorodi	10.0000	11.0966	-10.97	105	0.00
3	PT	Chloromethan	10.0000	9.6035	3.96	102	0.00
4	PT	VinylChlorid	10.0000	9.9436	0.56	100	0.00
5	PT	Bromomethane	10.0000	10.8233	-8.23	110	0.00
6	PT	Chloroethane	10.0000	9.4696	5.30	103	0.00
7	T	Dichloroflmethane	10.0000	9.9538	0.46	104	0.00
8	PT	Trichlorofma	10.0000	10.2218	-2.22	100	0.00
9	T	Ethylether	10.0000	10.2016	-2.02	106	0.00
10	T	dichlorotfluoroethan	10.0000	10.5433	-5.43	104	0.00
11	T	propyleneoxide	100.0000	116.4313	-16.43	112	0.00
12	T	Acrolein	50.0000	47.6919	4.62	102	0.00
13	PT	11dichlorthe	10.0000	9.8070	1.93	97	0.00
14	PT	Trichlorotfluoroeth	20.0000	21.6036	-8.02	103	0.00
15	PT	Acetone	100.0000	107.3003	-7.30	110	0.00
16	T	Iodomethane	20.0000	17.8997	10.50	115	0.00
17	PT	Carbon Dislf	20.0000	21.6701	-8.35	106	0.00
18	T	allylchloride	20.0000	21.0340	-5.17	108	0.00
19	PT	methylacetate	10.0000	10.1231	-1.23	107	0.00
20	PT	Methylchlorid	10.0000	8.7864	12.14	102	0.00
21	T	tbutylalcohol	500.0000	513.3034	-2.66	105	0.00
22	T	Acrylonitrile	50.0000	47.5949	4.81	105	0.00
23	PT	t12dichlorte	10.0000	9.8964	1.04	106	0.00
24	PT	MtBE	10.0000	10.0721	-0.72	108	0.00
25	T	Hexane	20.0000	23.3036	-16.52	107	0.00
26	PT	11dichlorota	10.0000	9.1516	8.48	96	0.00
27	T	Vinylacetate	100.0000	109.7766	-9.78	103	0.00
28	T	chloroprene	20.0000	21.4842	-7.42	103	0.00
29	T	Diisopether	10.0000	10.1149	-1.15	106	0.00
30	T	ETBE	10.0000	10.0520	-0.52	107	0.00
31	T	22dichloropr	10.0000	9.2912	7.09	97	0.00
32	PT	c12dichlorte	10.0000	9.1249	8.75	96	0.00
33	PT	2Butanone	100.0000	98.7965	1.20	101	0.00
34	T	propionitrile	100.0000	93.0119	6.99	99	0.00
35	T	Ethylacetate	50.0000	48.3459	3.31	110	0.00
36	T	methacrylonitrile	20.0000	20.1785	-0.89	100	0.00
37	T	Bromochlorma	10.0000	9.1132	8.87	105	0.00
38	T	Tetrahydofur	100.0000	96.4729	3.53	100	0.00
39	PT	Chloroform	10.0000	9.3553	6.45	101	0.01
40	PT	111trichlota	10.0000	9.7477	2.52	98	0.00
41	S	SURRDibrflma	20.0000	19.8945	0.53	107	0.00
42	PT	Cyclohexane	10.0000	10.5872	-5.87	101	0.00
43	PT	Carbtetraclo	10.0000	10.1245	-1.24	100	0.00
44	T	11dicloprope	10.0000	9.7640	2.36	100	0.00
45	S	SURR12DCAd4	20.0000	20.4858	-2.43	113	0.00
46	PT	Benzene	10.0000	9.6330	3.67	96	0.00
47	PT	12dichlorota	10.0000	9.1726	8.27	99	0.00
48	T	TAME	10.0000	10.0119	-0.12	104	0.00

49	PT	trichloroete	10.0000	9.8225	1.78	101	0.00
50	PT	methylcyclohexane	10.0000	9.6985	3.02	101	0.00
51	PT	12dicloropra	10.0000	9.6155	3.84	103	0.00
52	T	23Dicl1propene	10.0000	9.4039	5.96	103	0.00
53	T	Dibromometha	10.0000	9.1358	8.64	96	0.00
54	T	methylmethacrylate	10.0000	9.9170	0.83	100	0.00
55	T	14dioxane	500.0000	583.0578	-16.61	128	0.00
56	PT	Bromodiclrma	10.0000	9.1582	8.42	97	0.00
57	T	2Nitropropane	100.0000	100.9327	-0.93	104	0.00
58	T	2CLEVE	50.0000	56.8279	-13.66	118	0.00
59	PT	c13dicloproe	10.0000	10.0133	-0.13	104	0.00
60	PT	4Meth2Pentan	100.0000	103.1498	-3.15	102	0.00
61	S	SURRd8Tolule	20.0000	19.9701	0.15	107	0.00
62	PT	Toluene	10.0000	9.7797	2.20	100	0.00
63	PT	t13Dicloprop	10.0000	9.9268	0.73	103	0.00
64	T	ethylmethacrylate	20.0000	19.8278	0.86	99	0.00
65	PT	112Triclotha	10.0000	9.0736	9.26	99	0.00
66	PT	Tetrachlorte	10.0000	9.6447	3.55	99	0.00
67	T	13Diclorpropa	10.0000	9.6065	3.93	104	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	109	0.00
69	PT	2Hexanone	100.0000	100.5002	-0.50	99	0.00
70	PT	Clorodibrmta	10.0000	9.0841	9.16	98	0.00
71	PT	12Dibrometha	10.0000	9.5723	4.28	102	0.00
72	PT	Chlorobenzen	10.0000	9.2359	7.64	98	0.00
73	T	1Clhexane	10.0000	10.1527	-1.53	102	0.00
74	T	1112Tetclota	10.0000	8.9647	10.35	99	0.00
75	PT	Ethylbenzene	10.0000	10.0809	-0.81	100	0.00
76	PT	m p-Xylene	20.0000	19.9558	0.22	98	0.00
77	PT	o-Xylene	10.0000	9.6968	3.03	101	0.00
78	PT	Styrene	10.0000	9.9395	0.60	100	0.00
79	PT	Bromoform	10.0000	9.0697	9.30	104	0.00
80	PT	Isopropylben	10.0000	10.3053	-3.05	100	0.00
81	T	cyclohexanone	200.0000	212.7730	-6.39	118	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	106	0.00
83	S	SURR4BrFBenz	20.0000	20.3376	-1.69	107	0.00
84	T	Bromobenzene	10.0000	9.4676	5.32	103	0.00
85	PT	1122Tetrclta	10.0000	9.4552	5.45	103	0.00
86	T	123Triclproa	10.0000	9.7168	2.83	107	0.00
87	T	14dichloro2butene	10.0000	10.3689	-3.69	122	0.00
88	T	n-Propylbenz	10.0000	10.5860	-5.86	99	0.00
89	T	2chlorotolue	10.0000	9.9251	0.75	98	0.00
90	T	4chlorotolue	10.0000	10.0275	-0.27	99	0.00
91	T	135Trimebenz	10.0000	10.3162	-3.16	99	0.00
92	T	tbutylbenzen	10.0000	10.3255	-3.25	98	0.00
93	T	124Trimetben	10.0000	10.3325	-3.32	99	0.00
94	T	sbutylbenzen	10.0000	10.8510	-8.51	100	0.00
95	PT	13Diclorbenz	10.0000	9.6237	3.76	98	0.00
96	T	pIsopropylto	10.0000	10.3083	-3.08	96	0.00
97	PT	14dichlorobe	10.0000	9.5832	4.17	98	0.00
98	PT	12dichlorobe	10.0000	9.3660	6.34	101	0.00
99	T	nButylbenzen	10.0000	10.2705	-2.71	97	0.00
100	PT	12dibromo3cl	10.0000	8.3471	16.53	93	0.01
101	T	135Trichlorobenzene	10.0000	10.0883	-0.88	100	0.00
102	PT	124Trichlobe	10.0000	9.9245	0.75	102	0.00
103	T	Hexachlorobu	10.0000	10.0351	-0.35	101	0.00
104	T	Naphthalene	10.0000	9.8914	1.09	99	0.00
105	T	123Trichlben	10.0000	9.2192	7.81	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W111219.M Tue Dec 10 11:09:03 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 14
Acq On : 12 Nov 2019 15:32 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:31:31 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:31:26 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1165061	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	907084	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	489129	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	296829	19.895	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	84328	20.486	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 102 %			
61) SURRd8Tolule	9.63	98	1133282	19.970	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100 %			
83) SURR4BrFBenz	13.17	95	449890	20.338	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	166101	11.0966	ug/L	97
3) Chloromethan	2.09	50	138112	9.6035	ug/L	97
4) VinylChlorid	2.24	62	181547	9.9436	ug/L	99
5) Bromomethane	2.70	94	113276	10.8233	ug/L	98
6) Chloroethane	2.86	64	143033	9.4696	ug/L	96
7) Dichloroflmethane	3.16	67	261675	9.9538	ug/L	99
8) Trichlorofma	3.24	101	241108	10.2218	ug/L	99
9) Ethylether	3.67	59	107601	10.2016	ug/L	98
10) dichlorotfluoroethan	3.68	67	162744	10.5433	ug/L	97
11) propyleneoxide	3.73	58	155990	116.4313	ug/L	96
12) Acrolein	3.81	56	102997	47.6919	ug/L	100
13) 11dichlorthe	3.95	96	132280	9.8070	ug/L	97
14) Trichlorotfluoroeth	3.98	101	268303	21.6036	ug/L	98
15) Acetone	4.03	43	288339	107.3003	ug/L	99
16) Iodomethane	4.12	142	109053	17.8997	ug/L	97
17) Carbon Dislf	4.21	76	725678	21.6701	ug/L	100
18) allylchloride	4.43	41	399799	21.0340	ug/L	98
19) methylacetate	4.50	74	56472	10.1231	ug/L	94
20) Methylchlorid	4.58	84	144951	8.7864	ug/L	95
21) tbutylalcohol	4.79	59	480125	513.3034	ug/L	97
22) Acrylonitrile	4.90	53	172534	47.5949	ug/L	98
23) t12dichlorte	4.96	96	147823	9.8964	ug/L	97
24) MtBE	4.99	73	407411	10.0721	ug/L	98
25) Hexane	5.34	57	384569	23.3036	ug/L	97
26) 11dichlorota	5.48	63	240558	9.1516	ug/L	99
27) Vinylacetate	5.57	43	1955559	109.7766	ug/L	99
28) chloroprene	5.61	53	418633	21.4842	ug/L	100
29) Diisopether	5.62	45	400090	10.1149	ug/L	98
30) ETBE	6.08	59	391764	10.0520	ug/L	97
31) 22dichloropr	6.21	77	215901	9.2912	ug/L	99
32) c12dichlorte	6.21	96	157199	9.1249	ug/L	96
33) 2Butanone	6.23	72	147277	98.7965	ug/L	92
34) propionitrile	6.28	54	122886	93.0119	ug/L	92
35) Ethylacetate	6.34	88	27893	48.3459	ug/L	97
36) methacrylonitrile	6.48	67	118809	20.1785	ug/L	95
37) Bromochlorma	6.50	128	71420	9.1132	ug/L	89
38) Tetrahydofur	6.57	42	320927	96.4729	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 14
Acq On : 12 Nov 2019 15:32 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:31:31 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:31:26 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	264774	9.3553	ug/L	99
40)	111trichlota	6.84	97	241422	9.7477	ug/L	96
42)	Cyclohexane	6.92	56	216469	10.5872	ug/L	96
43)	Carbtetraclo	7.05	119	200185	10.1245	ug/L	99
44)	11dicloprope	7.05	110	73360	9.7640	ug/L	98
46)	Benzene	7.29	78	585239	9.6330	ug/L	98
47)	12dichlorota	7.29	62	195736	9.1726	ug/L	98
48)	TAME	7.46	73	399888	10.0119	ug/L	99
49)	trichloroete	8.10	95	159098	9.8225	ug/L	98
50)	methylcyclohexane	8.35	83	286358	9.6985	ug/L	98
51)	12dicloropra	8.35	63	153521	9.6155	ug/L	94
52)	23Dicl1propene	8.42	75	216833	9.4039	ug/L	97
53)	Dibromometha	8.50	93	88814	9.1358	ug/L	92
54)	methylmethacrylate	8.53	69	98855	9.9170	ug/L	99
55)	14dioxane	8.55	88	46869	583.0578	ug/L	95
56)	Bromodiclrma	8.70	83	191043	9.1582	ug/L	97
57)	2Nitropropane	8.96	43	375952	100.9327	ug/L	100
58)	2CLEVE	9.09	63	360470	56.8279	ug/L	98
59)	c13dicloproe	9.28	75	239799	10.0133	ug/L	99
60)	4Meth2Pentan	9.47	43	1132907	103.1498	ug/L	99
62)	Toluene	9.72	92	405454	9.7797	ug/L	98
63)	t13Dicloprop	9.99	75	212807	9.9268	ug/L	98
64)	ethylmethacrylate	10.13	69	376945	19.8278	ug/L	97
65)	112Triclotha	10.22	83	108316	9.0736	ug/L	98
66)	Tetrachlorte	10.46	166	161397	9.6447	ug/L	97
67)	13Diclorpropa	10.44	76	241754	9.6065	ug/L	96
69)	2Hexanone	10.56	43	807064	100.5002	ug/L	98
70)	Clorodibrmta	10.74	129	133889	9.0841	ug/L	98
71)	12Dibrometha	10.89	107	131186	9.5723	ug/L	100
72)	Chlorobenzen	11.58	112	397335	9.2359	ug/L	97
73)	1Clhexane	11.56	91	206324	10.1527	ug/L	98
74)	1112Tetclota	11.68	131	138049	8.9647	ug/L	99
75)	Ethylbenzene	11.74	91	701297	10.0809	ug/L	99
76)	m p-Xylene	11.90	106	540042	19.9558	ug/L	98
77)	o-Xylene	12.44	106	266296	9.6968	ug/L	96
78)	Styrene	12.46	104	425652	9.9395	ug/L	98
79)	Bromoform	12.69	173	80627	9.0697	ug/L	96
80)	Isopropylben	12.97	105	665914	10.3053	ug/L	100
81)	cyclohexanone	13.06	55	61404	212.7730	ug/L	98
84)	Bromobenzene	13.38	156	171249	9.4676	ug/L	94
85)	1122Tetrclta	13.36	83	180109	9.4552	ug/L	94
86)	123Triclproa	13.42	75	228965	9.7168	ug/L	95
87)	14dichloro2butene	13.44	53	47628	10.3689	ug/L	87
88)	n-Propylbenz	13.55	91	770568	10.5860	ug/L	96
89)	2chlorotolue	13.67	91	464497	9.9251	ug/L	100
90)	4chlorotolue	13.82	91	543045	10.0275	ug/L	98
91)	135Trimebenz	13.81	105	548086	10.3162	ug/L	99
92)	tbutylbenzen	14.28	119	464514	10.3255	ug/L	98
93)	124Trimetben	14.34	105	552619	10.3325	ug/L	100
94)	sbutylbenzen	14.60	105	665527	10.8510	ug/L	98
95)	13Diclorbenz	14.74	146	310804	9.6237	ug/L	99
96)	pIsopropylto	14.81	119	559033	10.3083	ug/L	98
97)	14dichlorobe	14.87	146	324076	9.5832	ug/L	98
98)	12dichlorobe	15.40	146	293657	9.3660	ug/L	97
99)	nButylbenzen	15.41	91	508558	10.2705	ug/L	97
100)	12dibromo3cl	16.51	157	28523	8.3471	ug/L	96
101)	135Trichlorobenzene	16.83	180	204591	10.0883	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

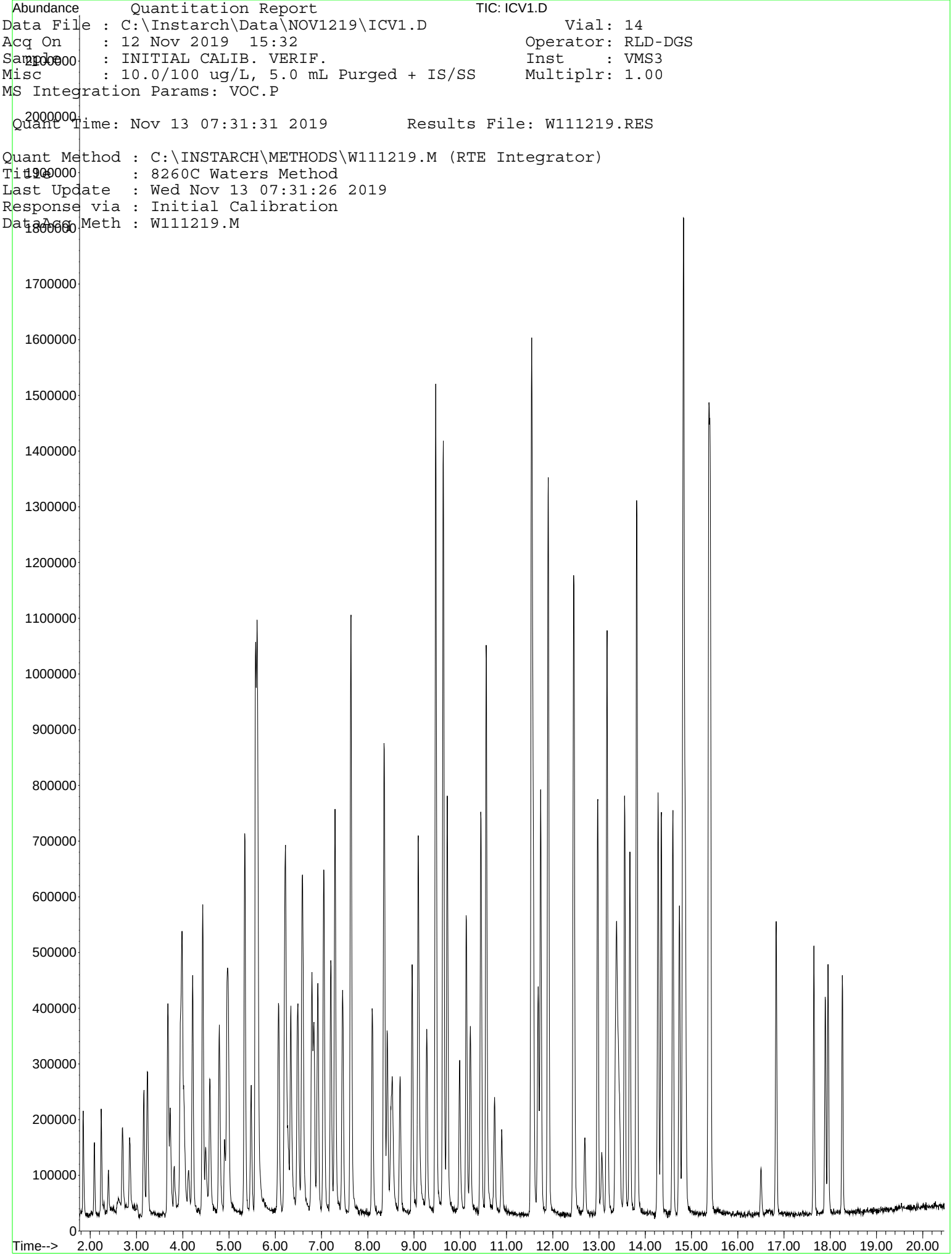
Data File : C:\Instarch\Data\NOV1219\ICV1.D Vial: 14
Acq On : 12 Nov 2019 15:32 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:31:31 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:31:26 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	176244	9.9245	ug/L	98
103) Hexachlorobu	17.90	225	86688	10.0351	ug/L	99
104) Naphthalene	17.95	128	417194	9.8914	ug/L	99
105) 123Trichlben	18.27	180	148373	9.2192	ug/L	95

(#) = qualifier out of range (m) = manual integration


Abundance
Quantitation Report
TIC: ICV1.D
Data File : C:\Instarch\Data\NOV1219\ICV1.D
Vial: 14
Acq On : 12 Nov 2019 15:32
Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.
Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC.P
Quant Time: Nov 13 07:31:31 2019
Results File: W111219.RES
Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:31:26 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
2100000
2000000
1900000
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time-->
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1219\ICV2.D Vial: 15
Acq On : 12 Nov 2019 16:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 13 07:32:25 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	103	0.00
2	PT	Dichlorodi	30.0000	32.9238	-9.75	107	0.00
3	PT	Chloromethan	30.0000	28.8835	3.72	107	0.00
4	PT	VinylChlorid	30.0000	30.2998	-1.00	103	0.00
5	PT	Bromomethane	30.0000	31.9875	-6.63	115	0.00
6	PT	Chloroethane	30.0000	28.0896	6.37	99	0.00
7	T	Dichloroflmethane	30.0000	29.3533	2.16	106	0.00
8	PT	Trichlorofma	30.0000	30.8942	-2.98	100	0.00
9	T	Ethylether	30.0000	31.9224	-6.41	104	0.00
10	T	dichlorotfluoroethan	30.0000	30.8679	-2.89	100	0.00
11	T	propyleneoxide	300.0000	439.9496	-46.65#	133	0.00
12	T	Acrolein	150.0000	162.8725	-8.58	109	-0.01
13	PT	11dichlorthe	30.0000	30.7915	-2.64	100	0.00
14	PT	Trichlorotfluoroeth	60.0000	63.8632	-6.44	100	0.00
15	PT	Acetone	300.0000	357.5477	-19.18	112	0.00
16	T	Iodomethane	60.0000	58.9806	1.70	95	0.00
17	PT	Carbon Dislf	60.0000	60.6525	-1.09	103	0.00
18	T	allylchloride	60.0000	61.4497	-2.42	103	0.00
19	PT	methylacetate	30.0000	33.9222	-13.07	110	-0.02
20	PT	Methylchlorid	30.0000	27.0613	9.80	99	0.00
21	T	tbutylalcohol	1500.0000	1618.3653	-7.89	107	0.00
22	T	Acrylonitrile	150.0000	157.3964	-4.93	106	-0.01
23	PT	t12dichlorte	30.0000	30.2886	-0.96	99	0.00
24	PT	MtBE	30.0000	30.3089	-1.03	105	0.00
25	T	Hexane	60.0000	67.6704	-12.78	103	0.00
26	PT	11dichlorota	30.0000	28.6522	4.49	99	0.00
27	T	Vinylacetate	300.0000	279.2150	6.93	102	0.00
28	T	chloroprene	60.0000	64.2167	-7.03	103	0.00
29	T	Diisopether	30.0000	30.3597	-1.20	102	0.00
30	T	ETBE	30.0000	30.2173	-0.72	103	0.00
31	T	22dichloropr	30.0000	29.2962	2.35	96	0.00
32	PT	c12dichlorte	30.0000	29.3115	2.30	97	0.00
33	PT	2Butanone	300.0000	348.6723	-16.22	108	-0.01
34	T	propionitrile	300.0000	351.4490	-17.15	108	0.00
35	T	Ethylacetate	150.0000	166.2902	-10.86	106	0.00
36	T	methacrylonitrile	60.0000	70.8964	-18.16	109	0.00
37	T	Bromochlorma	30.0000	28.1700	6.10	96	0.00
38	T	Tetrahydofur	300.0000	311.7010	-3.90	107	0.00
39	PT	Chloroform	30.0000	28.2852	5.72	98	0.00
40	PT	111trichlota	30.0000	30.5159	-1.72	99	0.00
41	S	SURRDibrflma	20.0000	19.8813	0.59	102	0.00
42	PT	Cyclohexane	30.0000	33.2947	-10.98	100	0.00
43	PT	Carbtetraclo	30.0000	30.9396	-3.13	97	0.00
44	T	11dicloprope	30.0000	31.1714	-3.90	102	0.00
45	S	SURR12DCAd4	20.0000	19.6210	1.90	106	0.00
46	PT	Benzene	30.0000	28.0487	6.50	99	0.00
47	PT	12dichlorota	30.0000	28.7731	4.09	98	0.00
48	T	TAME	30.0000	30.6777	-2.26	103	0.00

49	PT	trichloroete	30.0000	29.9145	0.28	102	0.00
50	PT	methylcyclohexane	30.0000	29.2354	2.55	99	0.00
51	PT	12dicloropra	30.0000	29.6096	1.30	100	0.00
52	T	23Dicl1propene	30.0000	29.9251	0.25	98	0.00
53	T	Dibromometha	30.0000	29.8468	0.51	98	0.00
54	T	methylmethacrylate	30.0000	34.2373	-14.12	108	0.00
55	T	14dioxane	1500.0000	1728.6309	-15.24	110	0.00
56	PT	Bromodiclrma	30.0000	29.3276	2.24	95	0.00
57	T	2Nitropropane	300.0000	344.0745	-14.69	106	0.00
58	T	2CLEVE	150.0000	177.7202	-18.48	112	0.00
59	PT	c13dicloproe	30.0000	30.7125	-2.37	98	0.00
60	PT	4Meth2Pentan	300.0000	276.1734	7.94	104	0.00
61	S	SURRd8Tolule	20.0000	19.7642	1.18	103	0.00
62	PT	Toluene	30.0000	29.0919	3.03	99	0.00
63	PT	t13Dicloprop	30.0000	31.2098	-4.03	97	0.00
64	T	ethylmethacrylate	60.0000	63.5606	-5.93	102	0.00
65	PT	112Triclotha	30.0000	28.8630	3.79	99	0.00
66	PT	Tetrachlorte	30.0000	30.0535	-0.18	98	0.00
67	T	13Diclorpropa	30.0000	28.5188	4.94	97	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	102	0.00
69	PT	2Hexanone	300.0000	302.8516	-0.95	105	0.00
70	PT	Clorodibrmta	30.0000	30.8289	-2.76	98	0.00
71	PT	12Dibrometha	30.0000	30.9353	-3.12	100	0.00
72	PT	Chlorobenzen	30.0000	28.1857	6.05	99	0.00
73	T	1Clhexane	30.0000	32.5115	-8.37	101	0.00
74	T	1112Tetclota	30.0000	29.2397	2.53	96	0.00
75	PT	Ethylbenzene	30.0000	29.2573	2.48	99	0.00
76	PT	m p-Xylene	60.0000	59.5650	0.73	98	0.00
77	PT	o-Xylene	30.0000	30.3681	-1.23	98	0.00
78	PT	Styrene	30.0000	30.7431	-2.48	94	0.00
79	PT	Bromoform	30.0000	32.2142	-7.38	100	0.00
80	PT	Isopropylben	30.0000	29.7608	0.80	97	0.00
81	T	cyclohexanone	600.0000	678.1214	-13.02	106	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	101	0.00
83	S	SURR4BrFBenz	20.0000	19.9915	0.04	103	0.00
84	T	Bromobenzene	30.0000	28.7915	4.03	96	0.00
85	PT	1122Tetrclta	30.0000	29.0757	3.08	100	0.00
86	T	123Triclproa	30.0000	30.7435	-2.48	100	0.00
87	T	14dichloro2butene	30.0000	33.3338	-11.11	99	0.00
88	T	n-Propylbenz	30.0000	29.3604	2.13	97	0.00
89	T	2chlorotolue	30.0000	28.8049	3.98	97	0.00
90	T	4chlorotolue	30.0000	28.8873	3.71	96	0.00
91	T	135Trimebenz	30.0000	30.2531	-0.84	98	0.00
92	T	tbutylbenzen	30.0000	30.9899	-3.30	98	0.00
93	T	124Trimetben	30.0000	30.1437	-0.48	97	0.00
94	T	sbutylbenzen	30.0000	31.3775	-4.59	99	0.00
95	PT	13Diclorbenz	30.0000	29.0728	3.09	97	0.00
96	T	pIsopropylto	30.0000	30.6050	-2.02	97	0.00
97	PT	14dichlorobe	30.0000	28.1465	6.18	97	0.00
98	PT	12dichlorobe	30.0000	27.7835	7.39	96	0.00
99	T	nButylbenzen	30.0000	30.4876	-1.63	96	0.00
100	PT	12dibromo3cl	30.0000	30.4056	-1.35	102	0.00
101	T	135Trichlorobenzene	30.0000	30.6591	-2.20	100	0.00
102	PT	124Trichlobe	30.0000	30.7386	-2.46	98	0.00
103	T	Hexachlorobu	30.0000	30.4683	-1.56	98	0.00
104	T	Naphthalene	30.0000	31.3476	-4.49	98	0.00
105	T	123Trichlben	30.0000	30.0376	-0.13	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W111219.M Tue Dec 10 11:09:36 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV2.D Vial: 15
Acq On : 12 Nov 2019 16:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:32:25 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1205359	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	920769	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	512629	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	306891	19.881	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	83562	19.621	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 98 %			
61) SURRd8Tolule	9.63	98	1160392	19.764	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	463479	19.991	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	509871	32.9238	ug/L	99
3) Chloromethan	2.09	50	429752	28.8835	ug/L	99
4) VinylChlorid	2.24	62	572337	30.2998	ug/L	99
5) Bromomethane	2.70	94	346359	31.9875	ug/L	96
6) Chloroethane	2.86	64	438953	28.0896	ug/L	96
7) Dichloroflmethane	3.16	67	798357	29.3533	ug/L	100
8) Trichlorofma	3.23	101	753926	30.8942	ug/L	100
9) Ethylether	3.67	59	348346	31.9224	ug/L	96
10) dichlorotfluoroethan	3.68	67	492949	30.8679	ug/L	98
11) propyleneoxide	3.73	58	583137	439.9496	ug/L	99
12) Acrolein	3.81	56	382888	162.8725	ug/L	95
13) 11dichlorthe	3.95	96	429690	30.7915	ug/L	98
14) Trichlorotfluoroeth	3.98	101	820574	63.8632	ug/L	98
15) Acetone	4.03	43	994041	357.5477	ug/L	99
16) Iodomethane	4.12	142	632008	58.9806	ug/L	98
17) Carbon Dislf	4.21	76	2101354	60.6525	ug/L	98
18) allylchloride	4.43	41	1208388	61.4497	ug/L	97
19) methylacetate	4.49	74	195781	33.9222	ug/L	93
20) Methylchlorid	4.59	84	461875	27.0613	ug/L	94
21) tbutylalcohol	4.79	59	1566118	1618.3653	ug/L	98
22) Acrylonitrile	4.90	53	624889	157.3964	ug/L	97
23) t12dichlorte	4.96	96	468071	30.2886	ug/L	96
24) MtBE	4.98	73	1268386	30.3089	ug/L	98
25) Hexane	5.34	57	1155359	67.6704	ug/L	99
26) 11dichlorota	5.48	63	779198	28.6522	ug/L	99
27) Vinylacetate	5.57	43	5145974	279.2150	ug/L	90
28) chloroprene	5.61	53	1294584	64.2167	ug/L	95
29) Diisopether	5.62	45	1242399	30.3597	ug/L	99
30) ETBE	6.07	59	1218414	30.2173	ug/L	97
31) 22dichloropr	6.20	77	704308	29.2962	ug/L	99
32) c12dichlorte	6.21	96	522430	29.3115	ug/L	99
33) 2Butanone	6.22	72	537748	348.6723	ug/L	98
34) propionitrile	6.27	54	480390	351.4490	ug/L	95
35) Ethylacetate	6.33	88	99259	166.2902	ug/L	92
36) methacrylonitrile	6.47	67	431870	70.8964	ug/L	95
37) Bromochlorma	6.49	128	228403	28.1700	ug/L	92
38) Tetrahydofur	6.57	42	1072771	311.7010	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV2.D Vial: 15
Acq On : 12 Nov 2019 16:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:32:25 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	828219	28.2852	ug/L	98
40)	111trichlota	6.84	97	781928	30.5159	ug/L	96
42)	Cyclohexane	6.92	56	704303	33.2947	ug/L	98
43)	Carbtetraclo	7.06	119	632909	30.9396	ug/L	97
44)	11dicloprope	7.04	110	242301	31.1714	ug/L	96
46)	Benzene	7.29	78	1762997	28.0487	ug/L	96
47)	12dichlorota	7.29	62	635234	28.7731	ug/L	98
48)	TAME	7.46	73	1267683	30.6777	ug/L	96
49)	trichloroete	8.10	95	501292	29.9145	ug/L	99
50)	methylcyclohexane	8.35	83	889570	29.2354	ug/L	97
51)	12dicloropra	8.35	63	489101	29.6096	ug/L	88
52)	23Dicl1propene	8.42	75	713873	29.9251	ug/L	96
53)	Dibromometha	8.50	93	300193	29.8468	ug/L	97
54)	methylmethacrylate	8.53	69	353092	34.2373	ug/L	97
55)	14dioxane	8.54	88	143762	1728.6309	ug/L	91
56)	Bromodiclrma	8.70	83	632944	29.3276	ug/L	98
57)	2Nitropropane	8.96	43	1325931	344.0745	ug/L	98
58)	2CLEVE	9.09	63	1161097	177.7202	ug/L	97
59)	c13dicloproe	9.28	75	760946	30.7125	ug/L	100
60)	4Meth2Pentan	9.47	43	3138162	276.1734	ug/L	90
62)	Toluene	9.72	92	1247835	29.0919	ug/L	95
63)	t13Dicloprop	9.98	75	692210	31.2098	ug/L	100
64)	ethylmethacrylate	10.13	69	1250139	63.5606	ug/L	96
65)	112Triclotha	10.22	83	356469	28.8630	ug/L	99
66)	Tetrachlorte	10.45	166	520320	30.0535	ug/L	97
67)	13Diclorpropa	10.44	76	742521	28.5188	ug/L	99
69)	2Hexanone	10.56	43	2468734	302.8516	ug/L	93
70)	Clorodibrmta	10.74	129	461236	30.8289	ug/L	99
71)	12Dibrometha	10.89	107	430355	30.9353	ug/L	100
72)	Chlorobenzen	11.58	112	1230868	28.1857	ug/L	99
73)	1Clhexane	11.56	91	670669	32.5115	ug/L	95
74)	1112Tetclota	11.68	131	457061	29.2397	ug/L	99
75)	Ethylbenzene	11.74	91	2066056	29.2573	ug/L	95
76)	m p-Xylene	11.90	106	1636257	59.5650	ug/L	91
77)	o-Xylene	12.45	106	846562	30.3681	ug/L	92
78)	Styrene	12.46	104	1336415	30.7431	ug/L	95
79)	Bromoform	12.69	173	290696	32.2142	ug/L	97
80)	Isopropylben	12.97	105	1952117	29.7608	ug/L	95
81)	cyclohexanone	13.06	55	198651	678.1214	ug/L	97
84)	Bromobenzene	13.38	156	545798	28.7915	ug/L	97
85)	1122Tetrclta	13.36	83	580463	29.0757	ug/L	98
86)	123Triclproa	13.42	75	759241	30.7435	ug/L	97
87)	14dichloro2butene	13.44	53	160470	33.3338	ug/L	95
88)	n-Propylbenz	13.55	91	2239864	29.3604	ug/L	96
89)	2chlorotolue	13.67	91	1412846	28.8049	ug/L	96
90)	4chlorotolue	13.82	91	1639567	28.8873	ug/L	97
91)	135Trimebenz	13.81	105	1684524	30.2531	ug/L	97
92)	tbutylbenzen	14.28	119	1461131	30.9899	ug/L	98
93)	124Trimetben	14.35	105	1689652	30.1437	ug/L	97
94)	sbutylbenzen	14.60	105	2016941	31.3775	ug/L	95
95)	13Diclorbenz	14.74	146	984033	29.0728	ug/L	98
96)	pIsopropylto	14.81	119	1739492	30.6050	ug/L	94
97)	14dichlorobe	14.87	146	997563	28.1465	ug/L	94
98)	12dichlorobe	15.41	146	912963	27.7835	ug/L	100
99)	nButylbenzen	15.41	91	1582163	30.4876	ug/L	95
100)	12dibromo3cl	16.50	157	108891	30.4056	ug/L	99
101)	135Trichlorobenzene	16.83	180	651641	30.6591	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICV2.D Vial: 15
Acq On : 12 Nov 2019 16:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:32:25 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	572099	30.7386	ug/L	97
103)	Hexachlorobu	17.90	225	275845	30.4683	ug/L	97
104)	Naphthalene	17.95	128	1385691	31.3476	ug/L	97
105)	123Trichlben	18.26	180	506646	30.0376	ug/L	99

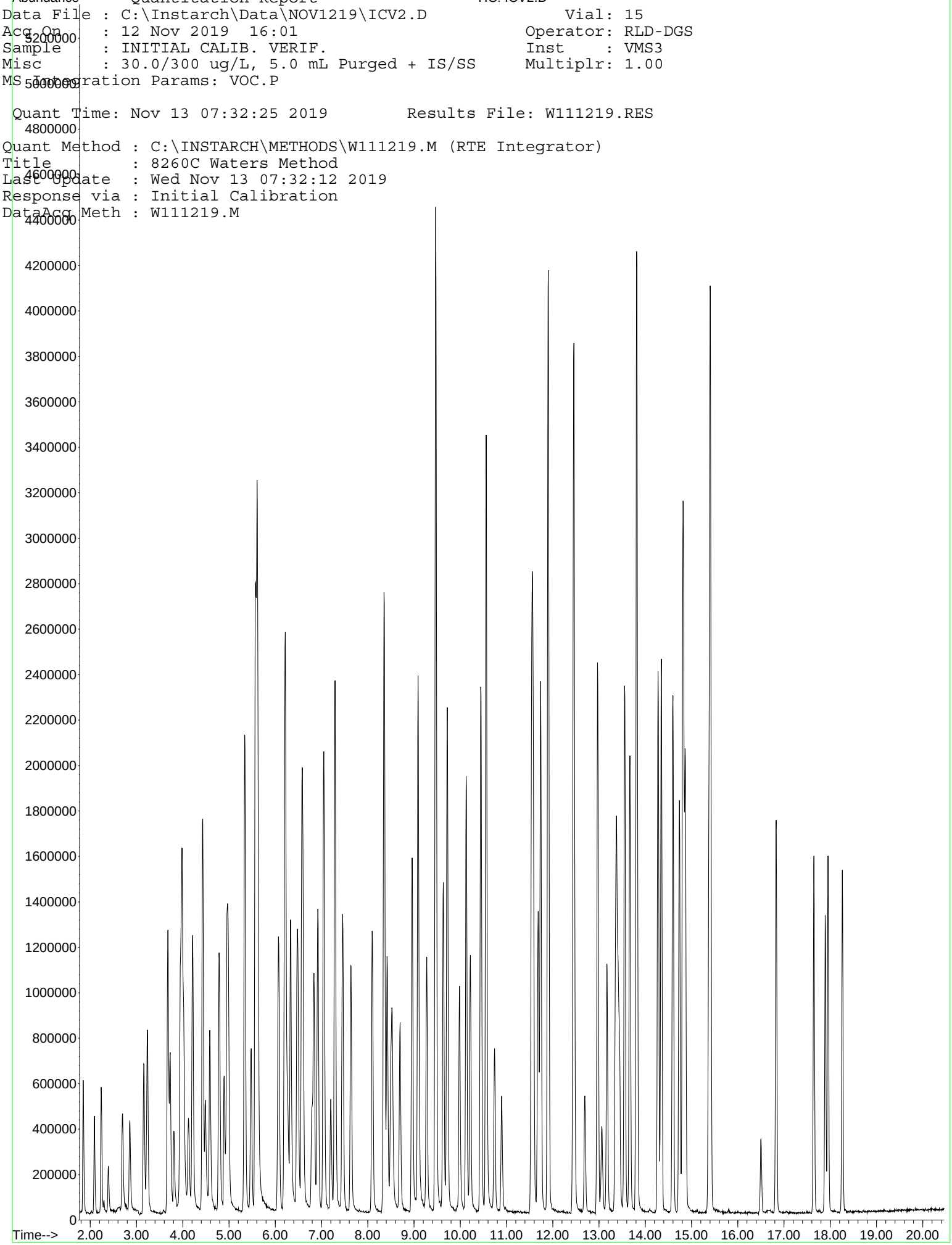
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV2.D

Data File : C:\Instarch\Data\NOV1219\ICV2.D Vial: 15
Acq On : 12 Nov 2019 16:01 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:32:25 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICB1.D Vial: 17
Acq On : 12 Nov 2019 17:01 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:32:41 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1094711	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	847901	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	446823	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	276779	19.743	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	77199	19.959	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 100 %			
61) SURRd8Tolule	9.63	98	1056445	19.812	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	412011	20.389	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 102 %			

Target Compounds				Qvalue
2) Dichlorodi	0.00	85	0	N.D.
3) Chloromethan	0.00	50	0	N.D.
4) VinylChlorid	0.00	62	0	N.D.
5) Bromomethane	0.00	94	0	N.D.
6) Chloroethane	2.89	64	3187	N.D.
7) Dichloroflmethane	0.00	67	0	N.D.
8) Trichlorofma	0.00	101	0	N.D.
9) Ethylether	0.00	59	0	N.D.
10) dichlorotfluoroethan	0.00	67	0	N.D.
11) propyleneoxide	0.00	58	0	N.D.
12) Acrolein	0.00	56	0	N.D.
13) 11dichlorthe	0.00	96	0	N.D.
14) Trichlorotfluoroeth	0.00	101	0	N.D.
15) Acetone	0.00	43	0	N.D.
16) Iodomethane	0.00	142	0	N.D.
17) Carbon Dislf	4.21	76	8858	N.D.
18) allylchloride	4.45	41	2336	N.D.
19) methylacetate	0.00	74	0	N.D.
20) Methylchlorid	0.00	84	0	N.D.
21) tbutylalcohol	4.80	59	8874	N.D.
22) Acrylonitrile	0.00	53	0	N.D.
23) t12dichlorte	0.00	96	0	N.D.
24) MtBE	0.00	73	0	N.D.
25) Hexane	0.00	57	0	N.D.
26) 11dichlorota	0.00	63	0	N.D.
27) Vinylacetate	0.00	43	0	N.D.
28) chloroprene	0.00	53	0	N.D.
29) Diisopether	0.00	45	0	N.D.
30) ETBE	0.00	59	0	N.D.
31) 22dichloropr	0.00	77	0	N.D.
32) c12dichlorte	0.00	96	0	N.D.
33) 2Butanone	0.00	72	0	N.D.
34) propionitrile	0.00	54	0	N.D.
35) Ethylacetate	0.00	88	0	N.D.
36) methacrylonitrile	0.00	67	0	N.D.
37) Bromochlorma	0.00	128	0	N.D.
38) Tetrahydofur	0.00	42	0	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICB1.D Vial: 17
Acq On : 12 Nov 2019 17:01 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:32:41 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	8.56	88	6559	86.8386 ug/L	92
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	11.59	112	2070	N.D.	
73)	1Clhexane	0.00	91	0	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.05	55	4141	15.3507 ug/L #	95
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.29	75	2030	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	13.55	91	2413	N.D.	
89)	2chlorotolue	13.55	91	2413	N.D.	
90)	4chlorotolue	13.84	91	2593	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	14.60	105	2039	N.D.	
95)	13Diclorbenz	14.74	146	3104	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.87	146	3698	N.D.	
98)	12dichlorobe	15.40	146	2267	N.D.	
99)	nButylbenzen	15.38	91	2143	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	16.84	180	2526	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1219\ICB1.D Vial: 17
Acq On : 12 Nov 2019 17:01 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:32:41 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.65	180	2394	N.D.	
103) Hexachlorobu	17.90	225	2105	N.D.	
104) Naphthalene	17.95	128	2823	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

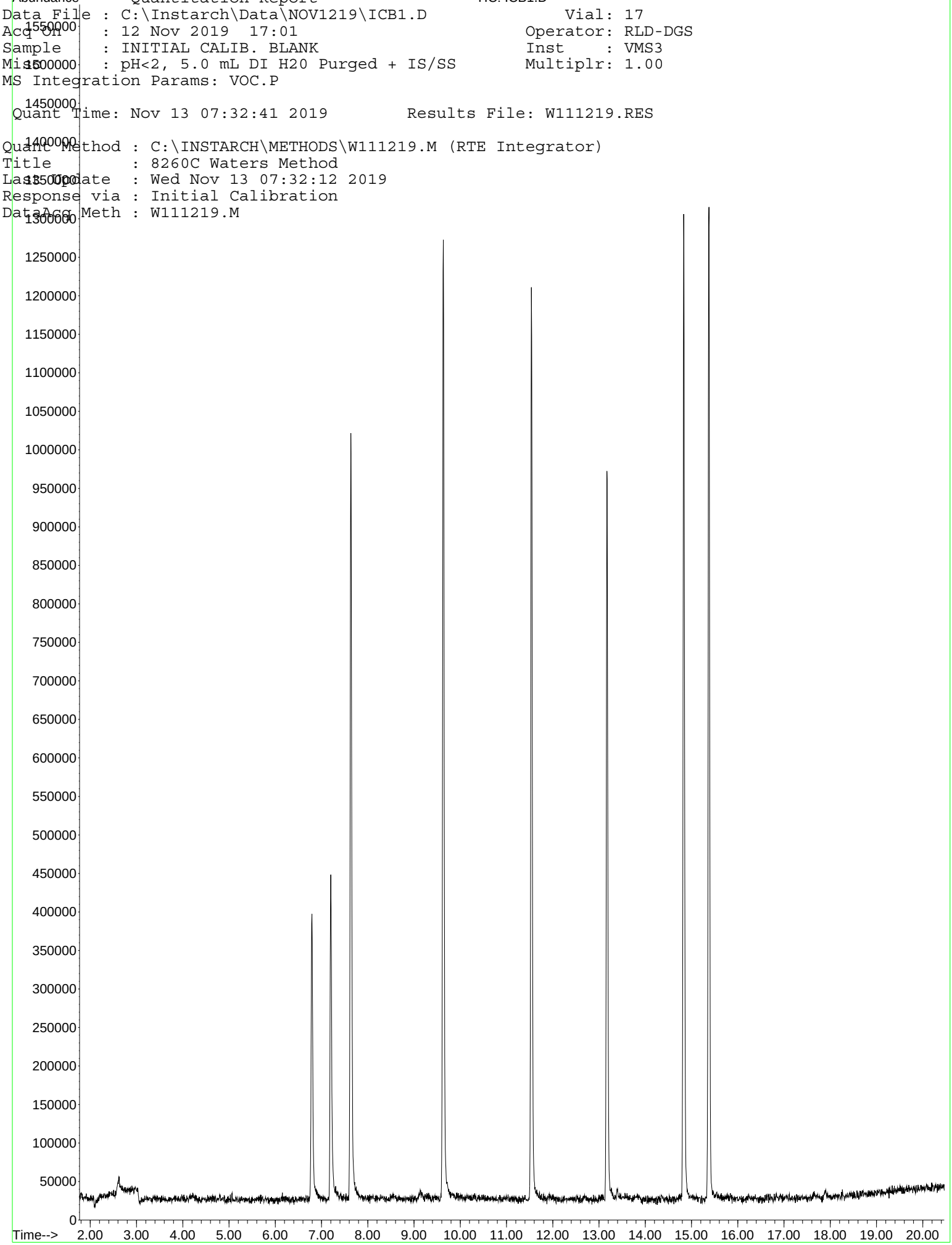
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICB1.D

Data File : C:\Instarch\Data\NOV1219\ICB1.D Vial: 17
Acq On : 12 Nov 2019 17:01 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 13 07:32:41 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Response Factor Report VMS3

Method Path : C:\INSTARCH\METHODS\
Method File : W112419.M
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response Via : Initial Calibration

RJ 12/11/2019

Calibration Files ug/L
1 0.500/5.00 =WCAL1.D 2 1.00/10.00 =WCAL2.D 3 2.00/20.00 =WCAL3.D
4 5.00/50.00 =WCAL4.D 5 10.00/100 =WCAL5.D 6 20.00/200 =WCAL6.D
7 30.00/300 =WCAL7.D 8 40.00/400 =WCAL8.D 9 80.00/800 =WCAL9.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
			8	9							
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------								
2)	PT	Dichlorodi	0.259	0.331	0.292	0.366	0.336	0.316	0.308	0.316	10.02
			0.340	0.295							
3)	PT	Chloromethan	0.273	0.274	0.289	0.293	0.279	0.261	0.258	0.269	6.68
			0.261	0.234							
4)	PT	VinylChlorid	0.363	0.345	0.354	0.395	0.395	0.364	0.359	0.359	7.55
			0.349	0.305							
5)	PT	Bromomethane		0.249	0.255	0.249	0.236	0.216	0.215	0.233	7.22
			0.229	0.214							
6)	PT	Chloroethane		0.305	0.319	0.282	0.276	0.261	0.257	0.273	10.75
			0.252	0.229							
7)	T	Dichloroflmetha	0.536	0.506	0.494	0.500	0.494	0.461	0.453	0.477	8.42
			0.453	0.399							
8)	PT	Trichlorofma	0.352	0.398	0.482	0.479	0.497	0.456	0.451	0.440	10.83
			0.444	0.399							
9)	T	Ethylether	0.233	0.184	0.203	0.193	0.200	0.195	0.204	0.201	6.59
			0.203	0.196							
10)	T	dichlorotfluoro	0.278	0.282	0.287	0.319	0.310	0.295	0.290	0.290	5.60
			0.287	0.265							
11)	T	propyleneoxide		0.047	0.046	0.046	0.048	0.049	0.049	0.048	3.54
			0.051	0.047							
12)	T	Acrolein		0.036	0.045	0.039	0.045	0.041	0.046	0.043	9.39
			0.047	0.046							
13)	PT	11dichlorthe	0.201	0.234	0.252	0.259	0.264	0.254	0.257	0.247	8.03
			0.261	0.241							
14)	PT	Trichlorotfluor	0.200	0.209	0.254	0.269	0.280	0.260	0.256	0.246	10.97
			0.254	0.229							
15)	PT	Acetone	0.066	0.066	0.066	0.062	0.064	0.065	0.064	0.064#	3.91
			0.066	0.059							
16)	T	Iodomethane		0.123	0.134	0.167	0.207	0.254	0.275	-----	
			0.280	0.268							
								Q	A= -0.003	R=0.999	
									B= 0.296		
									C= -0.049		
17)	PT	Carbon Dislf	0.612	0.600	0.670	0.692	0.689	0.644	0.619	0.623	10.50
			0.604	0.476							
18)	T	allylchloride	0.316	0.322	0.353	0.344	0.360	0.350	0.346	0.338	5.91
			0.348	0.301							
19)	PT	methylacetate		0.114	0.104	0.106	0.114	0.117	0.118	0.115	6.18
			0.123	0.125							
20)	PT	Methylchlorid	0.367	0.330	0.327	0.290	0.279	0.268	0.263	0.293	13.46
			0.270	0.246							
21)	T	tbutylalcohol	0.021	0.022	0.022	0.023	0.024	0.024	0.023	0.022#	6.63
			0.022	0.019							
22)	T	Acrylonitrile		0.064	0.054	0.063	0.075	0.078	0.080	0.072	14.37
			0.082	0.079							
23)	PT	t12dichlorte	0.251	0.279	0.274	0.292	0.293	0.285	0.284	0.279	4.91
			0.287	0.264							
24)	PT	MtBE	0.743	0.781	0.750	0.735	0.764	0.724	0.721	0.732	5.44
			0.728	0.639							
25)	T	Hexane	0.254	0.276	0.326	0.361	0.395	0.368	0.362	0.334	13.89
			0.353	0.310							

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26) PT  11dichlorota    0.489 0.467 0.465 0.477 0.461 0.433 0.433 0.450   6.66
                        0.431 0.392
27) T   Vinylacetate    0.350 0.342 0.345 0.374 0.382 0.341 0.307 0.340   9.93
                        0.279
28) T   chloroprene     0.304 0.309 0.371 0.389 0.400 0.381 0.378 0.360  10.01
                        0.379 0.329
29) T   Diisopether     0.701 0.614 0.726 0.736 0.721 0.705 0.699 0.693   6.24
                        0.707 0.625
30) T   ETBE            0.605 0.655 0.661 0.672 0.691 0.671 0.662 0.654   5.00
                        0.675 0.594
31) T   22dichloropr    0.445 0.387 0.409 0.422 0.433 0.409 0.415 0.413   4.69
                        0.411 0.385
32) PT  c12dichlorte    0.348 0.307 0.322 0.314 0.303 0.302 0.310 0.312   5.38
                        0.312 0.287
33) PT  2Butanone             0.027 0.029 0.032 0.035 0.036 0.035 0.033# 10.31
                        0.036 0.034
34) T   propionitrile         0.023 0.024 0.028 0.033 0.034 0.034 -----
                        0.034 0.034
                                                  Q  A= -0.000 R=1.000
                                                     B=  0.035
                                                     C= -0.010
35) T   Ethylacetate          0.009 0.011 0.012 0.013 0.012 0.013 0.012# 12.56
                        0.013 0.013
36) T   methacrylonitri       0.085 0.101 0.115 0.122 0.125 0.124 0.116  13.32
                        0.130 0.125
37) T   Bromochlorma    0.161 0.146 0.158 0.144 0.145 0.139 0.142 0.145   6.17
                        0.143 0.132
38) T   Tetrahydofur    0.075 0.073 0.069 0.069 0.073 0.070 0.067 0.069   6.14
                        0.067 0.060
39) PT  Chloroform      0.475 0.524 0.491 0.502 0.504 0.484 0.477 0.485   5.51
                        0.478 0.427
40) PT  111trichlota    0.424 0.413 0.430 0.457 0.477 0.457 0.455 0.443   5.21
                        0.462 0.415
41) S   SURRDibrflma     0.265 0.268 0.267 0.273 0.267 0.269 0.278 0.269   1.49
                        0.267 0.272
42) PT  Cyclohexane     0.295 0.274 0.370 0.411 0.419 0.409 0.407 0.374  14.47
                        0.413 0.373
43) PT  Carbtetraclo    0.334 0.317 0.357 0.392 0.398 0.396 0.395 0.373   8.15
                        0.395 0.370
44) T   11dicloprope          0.114 0.123 0.149 0.145 0.144 0.145 0.139   9.27
                        0.148 0.143
45) S   SURR12DCAd4     0.071 0.068 0.073 0.073 0.070 0.069 0.069 0.070   2.52
                        0.069 0.068
46) PT  Benzene         1.072 1.125 1.135 1.135 1.123 1.050 1.018 1.051  10.05
                        0.990 0.808
47) PT  12dichlorota    0.406 0.348 0.386 0.361 0.371 0.356 0.358 0.364   6.15
                        0.360 0.329
48) T   TAME            0.590 0.661 0.668 0.703 0.722 0.704 0.710 0.679   6.62
                        0.720 0.633
49) PT  trichloroete    0.293 0.274 0.301 0.293 0.287 0.289 0.291 0.288   3.42
                        0.295 0.271
50) PT  methylcyclohexa 0.450 0.425 0.476 0.548 0.586 0.578 0.575 0.524  11.54
                        0.564 0.515
51) PT  12dicloropra    0.291 0.261 0.287 0.262 0.273 0.260 0.268 0.269   4.62
                        0.269 0.254
52) T   23Dicl1propene       0.381 0.379 0.379 0.401 0.407 0.412 0.395   3.93
                        0.415 0.384
53) T   Dibromometha        0.201 0.178 0.179 0.174 0.170 0.173 0.177   5.79
                        0.176 0.168
54) T   methylmethacryl      0.142 0.157 0.171 0.190 0.201 0.206 0.186  14.02
                        0.209 0.210
55) T   14dioxane           0.002 0.002 0.002 0.002 0.002 0.002 ----- #
                        0.002 0.002
                                                  Q  A= -0.000 R=1.000
                                                     B=  0.002
                                                     C= -0.004
56) PT  Bromodiclrma    0.344 0.360 0.340 0.360 0.364 0.358 0.361 0.355   3.30
                        0.369 0.335
57) T   2Nitropropane   0.066 0.062 0.069 0.074 0.082 0.084 0.083 0.075  11.19
                        0.084 0.074
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58) T   2CLEVE              0.073 0.079 0.096 0.108 0.109 0.111 -----
                    0.112 0.103
                                                    Q  A= -0.001 R=1.000
                                                       B=  0.121
                                                       C= -0.024
59) PT  c13dicloproe    0.350 0.382 0.422 0.428 0.431 0.435 0.434 0.414   7.38
                    0.442 0.401
60) PT  4Meth2Pentan    0.229 0.211 0.230 0.226 0.227 0.205 0.188 0.212   9.48
                    0.177
61) S   SURRd8Tolule    1.002 1.002 1.012 1.018 0.993 1.009 1.031 1.010   1.07
                    1.014 1.011
62) PT  Toluene         0.805 0.763 0.831 0.794 0.786 0.743 0.725 0.754   8.46
                    0.720 0.615
63) PT  t13Dicloprop    0.347 0.328 0.342 0.357 0.372 0.369 0.385 0.362   5.78
                    0.394 0.366
64) T   ethylmethacryla        0.299 0.305 0.338 0.367 0.368 0.369 0.342   8.74
                    0.367 0.324
65) PT  112Triclotha          0.195 0.218 0.205 0.210 0.200 0.206 0.204   3.71
                    0.205 0.196
66) PT  Tetrachlorte    0.296 0.336 0.335 0.354 0.356 0.341 0.349 0.338   5.60
                    0.349 0.323
67) T   13Diclorpropa   0.450 0.472 0.449 0.449 0.453 0.432 0.429 0.440   5.08
                    0.434 0.392

68) I   d5-CHLOROBENZENE**IST ----------------ISTD---------------------
69) PT  2Hexanone             0.171 0.174 0.187 0.203 0.189 0.174 0.181   6.69
                    0.170
70) PT  Clorodibrmta    0.284 0.279 0.323 0.318 0.328 0.325 0.328 0.317   6.69
                    0.342 0.325
71) PT  12Dibrometha    0.297 0.301 0.289 0.299 0.318 0.308 0.305 0.303   3.05
                    0.315 0.298
72) PT  Chlorobenzen    0.974 1.010 1.035 1.001 0.995 0.922 0.893 0.943   8.91
                    0.895 0.766
73) T   1Clhexane        0.403 0.398 0.442 0.461 0.490 0.485 0.481 0.456   7.86
                    0.491 0.452
74) T   1112Tetclota           0.315 0.335 0.325 0.346 0.337 0.349 0.336   3.51
                    0.349 0.332
75) PT  Ethylbenzene    1.493 1.454 1.517 1.494 1.607 1.507 1.417 1.444   9.86
                    1.404 1.099
76) PT  m p-Xylene      0.541 0.551 0.595 0.620 0.631 0.601 0.571 0.572   8.63
                    0.569 0.468
77) PT  o-Xylene        0.518 0.500 0.533 0.578 0.596 0.589 0.586 0.559   6.78
                    0.600 0.534
78) PT  Styrene         0.807 0.718 0.816 0.899 0.988 0.957 0.939 0.877  10.40
                    0.954 0.817
79) PT  Bromoform             0.187 0.207 0.200 0.212 0.218 0.222 0.215   7.91
                    0.234 0.237
80) PT  Isopropylben    1.223 1.238 1.340 1.453 1.523 1.460 1.381 1.341  10.42
                    1.376 1.078
81) T   cyclohexanone         0.008 0.007 0.007 0.008 0.009 0.009 0.008#  9.27
                    0.009 0.009

82) I   d4-1,4-DICHLOROBENZEN ----------------ISTD---------------------
83) S   SURR4BrFBenz    0.815 0.821 0.816 0.818 0.806 0.818 0.815 0.817   0.67
                    0.814 0.826
84) T   Bromobenzene    0.700 0.727 0.741 0.736 0.715 0.698 0.681 0.704   4.20
                    0.694 0.646
85) PT  1122Tetrclta    0.788 0.815 0.782 0.734 0.734 0.714 0.675 0.728   8.19
                    0.668 0.640
86) T   123Triclproa          0.921 0.826 0.806 0.871 0.875 0.849 0.859   4.05
                    0.873 0.853
87) T   14dichloro2bute       0.178 0.122 0.157 0.173 0.171 0.178 0.169  12.73
                    0.183 0.192
88) T   n-Propylbenz    2.617 2.731 2.936 2.979 3.117 2.903 2.668 2.717  12.52
                    2.546 1.960
89) T   2chlorotolue    1.819 1.647 1.806 1.793 1.872 1.761 1.677 1.708   8.84
                    1.627 1.373
90) T   4chlorotolue    2.104 1.890 2.113 2.019 2.108 2.051 1.942 1.966   8.79
                    1.896 1.570
91) T   135Trimebenz    1.708 1.798 1.990 2.090 2.180 2.054 1.965 1.923   9.92
```

			1.931	1.589							
92)	T	tbutylbenzen	1.543	1.664	1.744	1.794	1.867	1.836	1.767	1.715	7.61
			1.740	1.478							
93)	T	124Trimetben	1.731	1.765	1.963	2.065	2.191	2.096	1.976	1.920	10.19
			1.918	1.579							
94)	T	sbutylbenzen	2.028	2.134	2.471	2.572	2.729	2.603	2.413	2.348	12.40
			2.339	1.848							
95)	PT	13Diclorbenz	1.384	1.314	1.358	1.326	1.339	1.307	1.251	1.290	6.81
			1.238	1.091							
96)	T	pIsopropylto	1.780	1.823	2.093	2.195	2.408	2.269	2.140	2.054	11.71
			2.089	1.690							
97)	PT	14dichlorobe	1.523	1.495	1.459	1.420	1.391	1.330	1.277	1.362	9.80
			1.262	1.104							
98)	PT	12dichlorobe	1.453	1.303	1.319	1.309	1.312	1.238	1.196	1.261	9.13
			1.183	1.041							
99)	T	nButylbenzen	1.804	1.810	2.020	2.067	2.143	2.057	1.958	1.927	9.07
			1.905	1.578							
100)	PT	12dibromo3cl		0.168	0.148	0.137	0.153	0.153	0.157	0.155	6.47
			0.160	0.167							
101)	T	135Trichloroben	0.881	0.917	0.954	0.967	0.960	0.935	0.911	0.919	4.80
			0.923	0.826							
102)	PT	124Trichlobe	0.838	0.687	0.725	0.711	0.746	0.766	0.751	0.744	5.91
			0.763	0.711							
103)	T	Hexachlorobu	0.405	0.307	0.374	0.350	0.375	0.369	0.351	0.359	7.41
			0.355	0.348							
104)	T	Naphthalene	1.384	1.476	1.527	1.546	1.716	1.741	1.670	1.575	8.24
			1.674	1.438							
105)	T	123Trichlben	0.688	0.648	0.682	0.648	0.714	0.703	0.696	0.682	3.56
			0.696	0.659							

Total Average %RSD 7.68

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

W112419.M Wed Dec 11 15:26:57 2019

BFB

Data File : C:\Instarch\Data\NOV2419B\BFB1.D Vial: 1
Acq On : 24 Nov 2019 22:03 Operator: RLD-DGS
Sample : 165549,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W112419.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.573 to 4.585 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	16440	PASS
75	95	30	60	55.9	55854	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	5.1	5106	PASS
173	174	0.00	2	1.0	819	PASS
174	95	50	100	82.3	82296	PASS
175	174	5	9	5.2	4256	PASS
176	174	95	101	98.5	81067	PASS
177	176	5	9	6.8	5484	PASS

W112419.M Wed Dec 11 15:23:36 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL1.D Vial: 5
Acq On : 24 Nov 2019 23:49 Operator: RLD-DGS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:02:46 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:59:23 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	937876	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	793047	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	434275	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	248623	19.674	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 98 %			
45) SURR12DCAd4	7.20	102	66860	20.378	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 102 %			
61) SURRd8Tolule	9.63	98	939420	19.831	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	354107	19.970	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100 %			

Target Compounds						Qvalue
2) Dichlorodi	1.85	85	6074	0.4103	ug/L	94
3) Chloromethan	2.10	50	6400	0.5074	ug/L	84
4) VinylChlorid	2.24	62	8518	0.5061	ug/L	96
5) Bromomethane	2.71	94	6611	0.6052	ug/L	89
6) Chloroethane	2.85	64	7395	0.5784	ug/L	76
7) Dichloroflmethane	3.16	67	12568	0.5614	ug/L	91
8) Trichlorofma	3.24	101	8247	0.4000	ug/L	87
9) Ethylether	3.68	59	5456	0.5780	ug/L #	87
10) dichlorotfluoroethan	3.68	67	6523	0.4791	ug/L	87
11) propyleneoxide	3.74	58	10238	4.5720	ug/L	82
12) Acrolein	3.85	56	1611	0.8334	ug/L #	70
13) 11dichlorthe	3.95	96	4711	0.4065	ug/L #	69
14) Trichlorotfluoroeth	3.99	101	9387	0.8152	ug/L	97
15) Acetone	4.04	43	15576	5.1713	ug/L	83
16) Iodomethane	4.12	142	4858	0.4928	ug/L #	81
17) Carbon Dislf	4.21	76	28691	0.9824	ug/L	96
18) allylchloride	4.45	41	14827	0.9355	ug/L	93
19) methylacetate	4.51	74	1016	0.1881	ug/L #	43
20) Methylchlorid	4.60	84	8598	0.6253	ug/L	97
21) tbutylalcohol	4.79	59	24312	23.4937	ug/L	99
22) Acrylonitrile	5.00	53	2885	0.9042	ug/L #	70
23) t12dichlorte	4.95	96	5886	0.4502	ug/L	92
24) MtBE	4.99	73	17414	0.5075	ug/L	86
25) Hexane	5.36	57	11895	0.7595	ug/L	96
26) 11dichlorota	5.47	63	11469	0.5437	ug/L	98
27) Vinylacetate	5.61	43	82100m	5.6945	ug/L	97
28) chloroprene	5.61	53	14245	0.8436	ug/L	91
29) Diisopether	5.63	45	16438	0.5061	ug/L	98
30) ETBE	6.08	59	14181	0.4624	ug/L	98
31) 22dichloropr	6.20	77	10430	0.5389	ug/L	90
32) c12dichlorte	6.22	96	8169	0.5586	ug/L #	72
33) 2Butanone	6.25	72	4011	2.6068	ug/L	87
34) propionitrile	6.37	54	1232	0.8875	ug/L #	56
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	6.51	67	2916	0.5374	ug/L #	84
37) Bromochlorma	6.51	128	3764	0.5521	ug/L #	87
38) Tetrahydofur	6.59	42	17577	5.4094	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL1.D Vial: 5
Acq On : 24 Nov 2019 23:49 Operator: RLD-DGS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:02:46 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:59:23 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.60	83	11137	0.4900 ug/L		96
40)	111trichlota	6.84	97	9930	0.4778 ug/L		93
42)	Cyclohexane	6.93	56	6923	0.3942 ug/L	#	19
43)	Carbtetraclo	7.05	119	7830	0.4479 ug/L		82
44)	11dicloprope	7.07	110	3159	0.4855 ug/L	#	79
46)	Benzene	7.30	78	25135	0.5102 ug/L	#	82
47)	12dichlorota	7.30	62	9529	0.5585 ug/L	#	88
48)	TAME	7.46	73	13843	0.4348 ug/L		82
49)	trichloroete	8.10	95	6878	0.5089 ug/L	#	81
50)	methylcyclohexane	8.35	83	10540	0.4288 ug/L		91
51)	12dicloropra	8.36	63	6826	0.5404 ug/L	#	92
52)	23Dicl1propene	8.43	75	8280	0.4473 ug/L		88
53)	Dibromometha	8.50	93	4512	0.5429 ug/L	#	88
54)	methylmethacrylate	8.55	69	1343	0.1542 ug/L	#	42
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	8.71	83	8070	0.4852 ug/L	#	94
57)	2Nitropropane	8.97	43	15472	4.3788 ug/L		91
58)	2CLEVE	9.12	63	7835	1.7089 ug/L		98
59)	c13dicloproe	9.28	75	8211	0.4232 ug/L		90
60)	4Meth2Pentan	9.48	43	53704m	5.7406 ug/L		93
62)	Toluene	9.73	92	18872	0.5340 ug/L		94
63)	t13Dicloprop	10.01	75	8145	0.4794 ug/L		91
64)	ethylmethacrylate	10.15	69	12046	0.7510 ug/L		94
65)	112Triclotha	10.22	83	4332	0.4524 ug/L	#	73
66)	Tetrachlorte	10.45	166	6935	0.4380 ug/L		94
67)	13Diclorpropa	10.44	76	10552	0.5115 ug/L		99
69)	2Hexanone	10.58	43	31555	4.5581 ug/L		93
70)	Clorodibrmta	10.74	129	5629	0.4479 ug/L		91
71)	12Dibrometha	10.91	107	5893	0.4899 ug/L		87
72)	Chlorobenzen	11.58	112	19309	0.5162 ug/L	#	55
73)	1Clhexane	11.56	91	7994	0.4423 ug/L	#	20
74)	1112Tetclota	11.68	131	6578	0.4938 ug/L	#	70
75)	Ethylbenzene	11.74	91	29609	0.5173 ug/L		93
76)	m p-Xylene	11.91	106	21434	0.9454 ug/L		99
77)	o-Xylene	12.44	106	10271	0.4631 ug/L		93
78)	Styrene	12.46	104	16003	0.4601 ug/L		94
79)	Bromoform	12.69	173	3433	0.4031 ug/L		96
80)	Isopropylben	12.97	105	24246	0.4559 ug/L		97
81)	cyclohexanone	13.06	55	3120	9.6703 ug/L	#	88
84)	Bromobenzene	13.39	156	7604	0.4973 ug/L		92
85)	1122Tetrclta	13.36	83	8558	0.5414 ug/L		94
86)	123Triclproa	13.42	75	8553	0.4584 ug/L		84
87)	14dichloro2butene	13.47	53	1628	0.4428 ug/L	#	19
88)	n-Propylbenz	13.56	91	28414	0.4816 ug/L		90
89)	2chlorotolue	13.67	91	19750	0.5324 ug/L		91
90)	4chlorotolue	13.83	91	22842	0.5351 ug/L		97
91)	135Trimebenz	13.81	105	18539	0.4441 ug/L		99
92)	tbutylbenzen	14.28	119	16749	0.4498 ug/L		92
93)	124Trimetben	14.34	105	18796	0.4507 ug/L		92
94)	sbutylbenzen	14.60	105	22016	0.4317 ug/L		97
95)	13Diclorbenz	14.74	146	15027	0.5365 ug/L		99
96)	pIsopropylto	14.81	119	19325	0.4333 ug/L	#	88
97)	14dichlorobe	14.87	146	16539	0.5591 ug/L	#	62
98)	12dichlorobe	15.41	146	15771	0.5758 ug/L	#	63
99)	nButylbenzen	15.41	91	19589	0.4681 ug/L		92
100)	12dibromo3cl	16.51	157	1283	0.3805 ug/L	#	1
101)	135Trichlorobenzene	16.83	180	9569	0.4793 ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL1.D Vial: 5
Acq On : 24 Nov 2019 23:49 Operator: RLD-DGS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:02:46 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:59:23 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

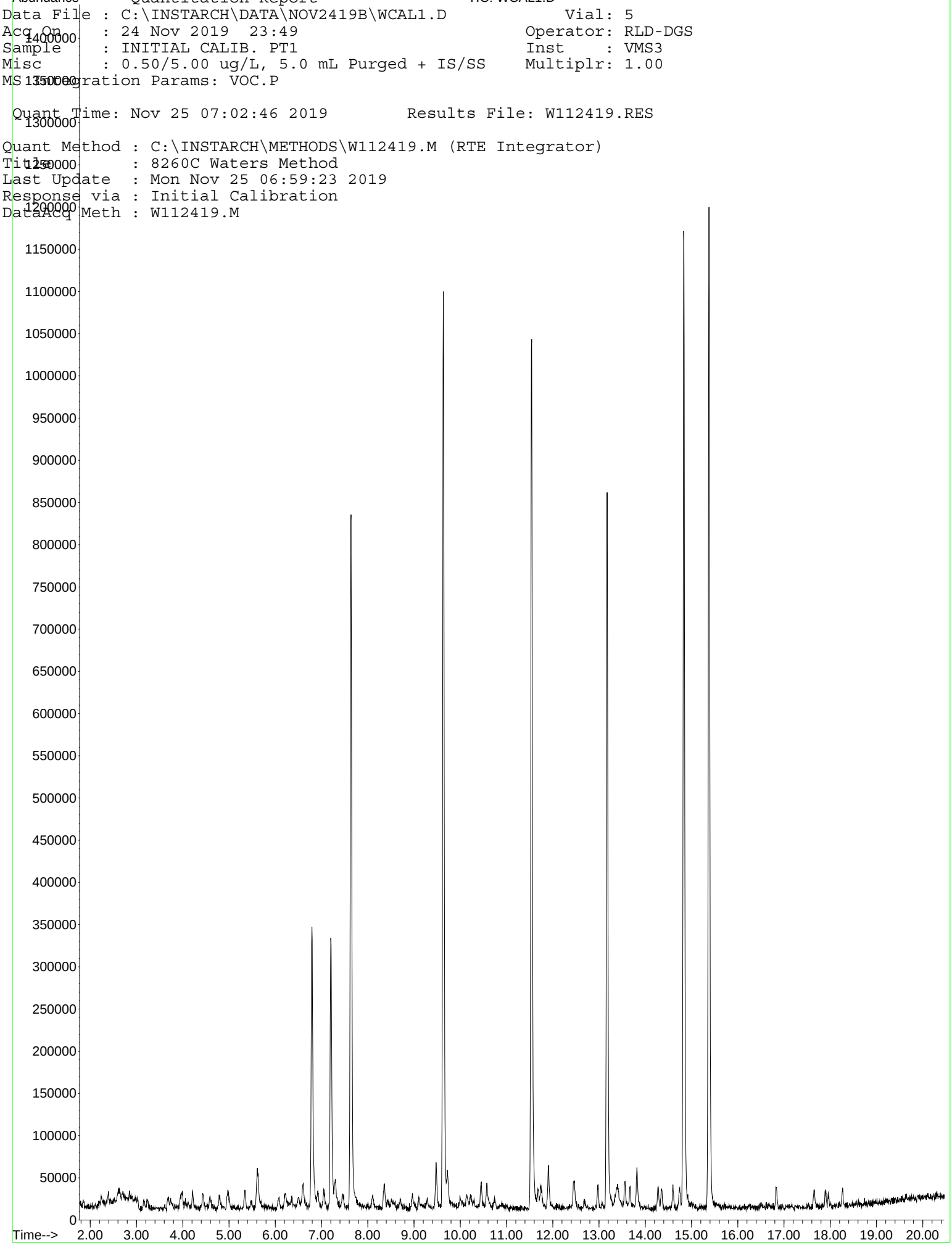
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	9093	0.5628	ug/L	96
103) Hexachlorobu	17.90	225	4394	0.5632	ug/L	89
104) Naphthalene	17.96	128	15031	0.4396	ug/L	90
105) 123Trichlben	18.27	180	7471	0.5048	ug/L	90

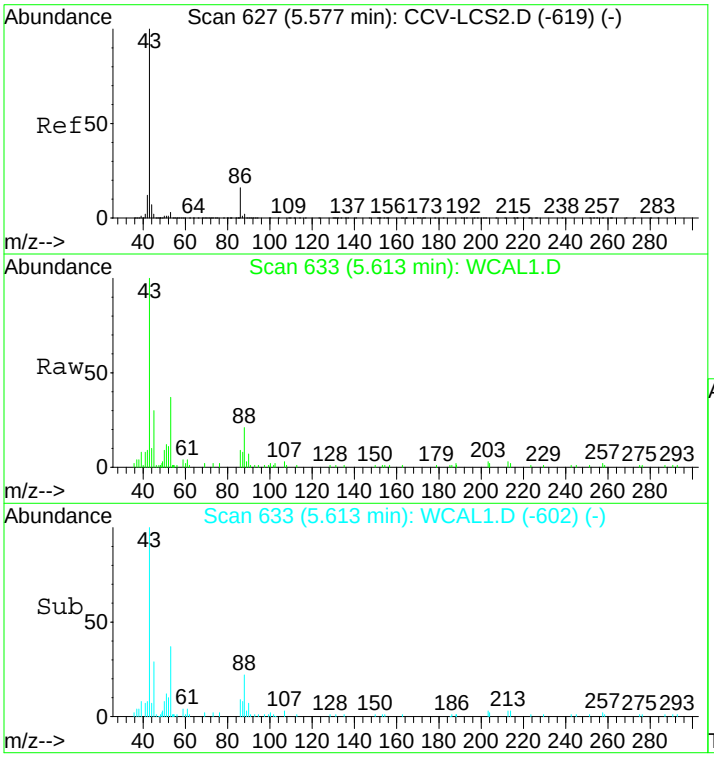
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL1.D Vial: 5
Acq On : 24 Nov 2019 23:49 Operator: RLD-DGS
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:02:46 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:59:23 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M





#27
Vinylacetate
Concen: 5.69 ug/L m
RT: 5.61 min Scan# 633
Delta R.T. 0.04 min
Lab File: WCAL1.D
Acq: 24 Nov 2019 23:49

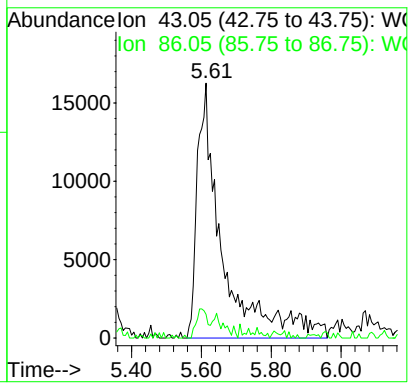
Tgt Ion: 43 Resp: 82100

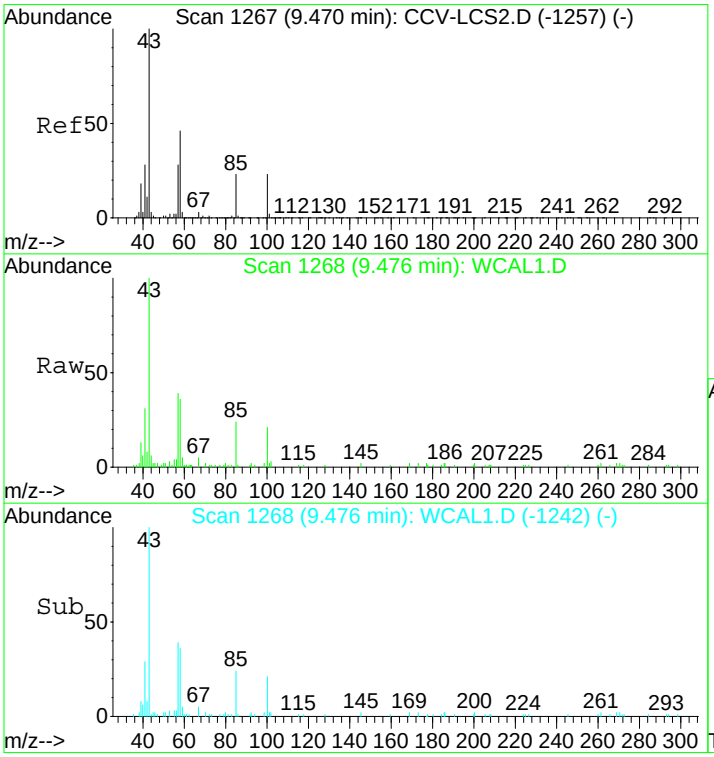
Ion	Ratio	Lower	Upper
43	100		
86	8.8	0.0	33.0

After Manual Integration

RJ 12/11/2019

DGS 12/12/2019

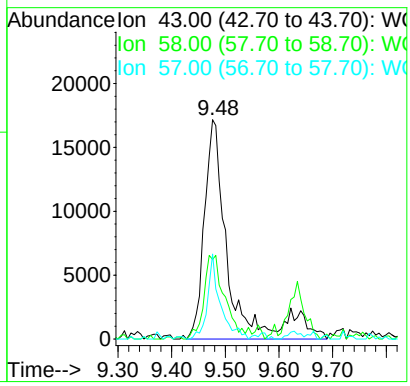


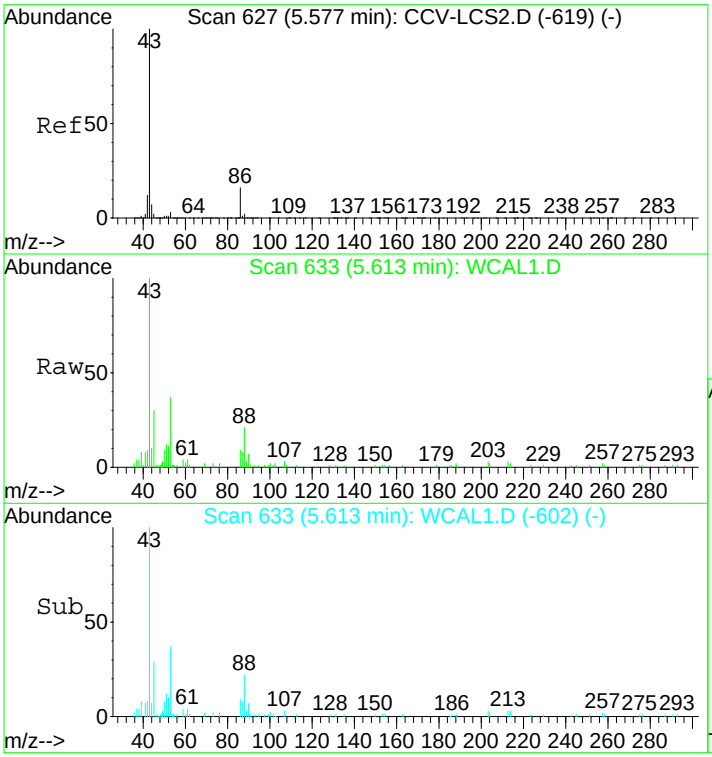


#60
4Meth2Pentan
Concen: 5.74 ug/L m
RT: 9.48 min Scan# 1268
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 24 Nov 2019 23:49

Tgt Ion: 43 Resp: 53704

Ion	Ratio	Lower	Upper
43	100		
58	34.9	23.0	63.0
57	20.4	7.4	47.4





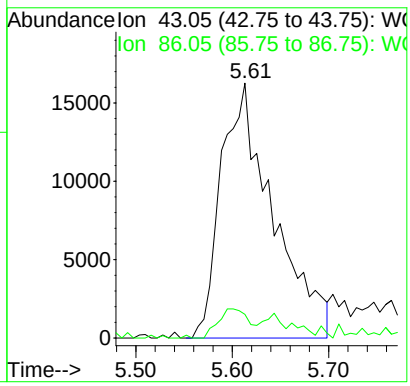
#27
Vinylacetate
Concen: 3.82 ug/L
RT: 5.61 min Scan# 633
Delta R.T. 0.04 min
Lab File: WCAL1.D
Acq: 24 Nov 2019 23:49

Tgt Ion: 43 Resp: 60890

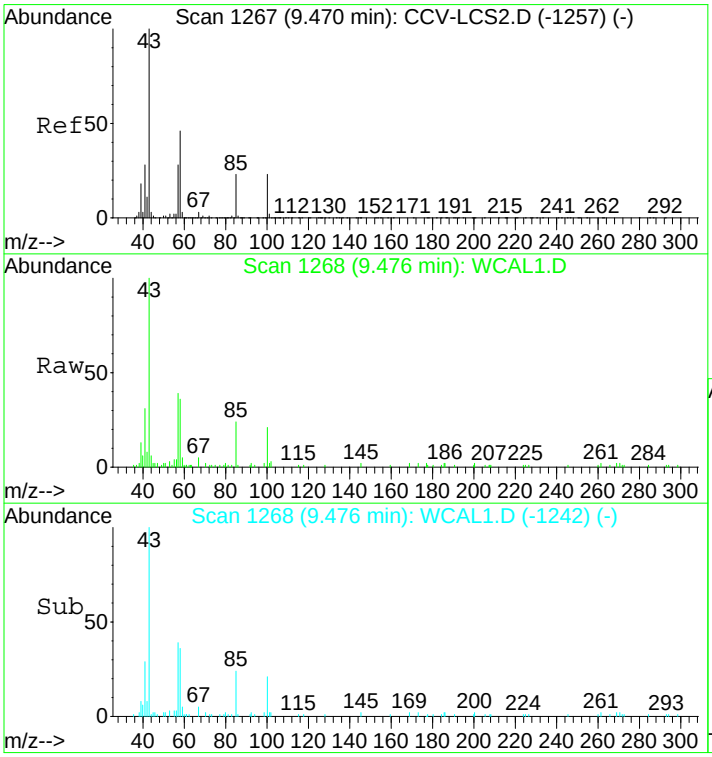
Ion	Ratio	Lower	Upper
43	100		
86	11.9	0.0	33.0

Before Manual Integration

12/11/2019



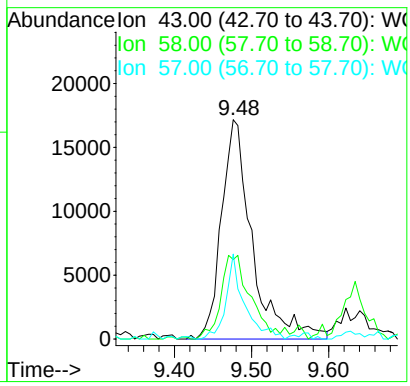
REASON # 2



#60
4Meth2Pentan
Concen: 4.80 ug/L
RT: 9.48 min Scan# 1268
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 24 Nov 2019 23:49

Tgt Ion: 43 Resp: 47607

Ion	Ratio	Lower	Upper
43	100		
58	39.4	23.0	63.0
57	23.0	7.4	47.4



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL2.D Vial: 6
Acq On : 25 Nov 2019 00:19 Operator: RLD-DGS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:05:14 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:59:09 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	950625	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	796290	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	447715	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	254403	19.862	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	64870	19.507	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 98 %			
61) SURRd8Tolule	9.63	98	952420	19.836	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	367518	20.104	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	15728	1.0482	ug/L	89
3) Chloromethan	2.10	50	13006	1.0173	ug/L	95
4) VinylChlorid	2.24	62	16380	0.9603	ug/L	95
5) Bromomethane	2.71	94	11815	1.0672	ug/L	99
6) Chloroethane	2.86	64	14490	1.1181	ug/L	95
7) Dichloroflmethane	3.16	67	24039	1.0594	ug/L	98
8) Trichlorofma	3.24	101	18912	0.9049	ug/L	95
9) Ethylether	3.68	59	8763	0.9159	ug/L	80
10) dichlorotfluoroethan	3.68	67	13406	0.9714	ug/L	95
11) propyleneoxide	3.74	58	22347	9.8457	ug/L	95
12) Acrolein	3.83	56	8456m	4.3156	ug/L	86
13) 11dichlorthe	3.95	96	11115	0.9462	ug/L	90
14) Trichlorotfluoroeth	3.99	101	19870	1.7023	ug/L	98
15) Acetone	4.04	43	31261	10.2396	ug/L	99
16) Iodomethane	4.13	142	11687m	1.1697	ug/L	88
17) Carbon Dislf	4.21	76	57053	1.9273	ug/L	95
18) allylchloride	4.43	41	30657	1.9084	ug/L	97
19) methylacetate	4.52	74	5429	0.9919	ug/L	93
20) Methylchlorid	4.59	84	15704	1.1268	ug/L	99
21) tbutylalcohol	4.80	59	51985	49.5616	ug/L	97
22) Acrylonitrile	4.96	53	15164m	4.6891	ug/L #	81
23) t12dichlorte	4.96	96	13257	1.0003	ug/L	83
24) MtBE	4.99	73	37121	1.0673	ug/L	97
25) Hexane	5.35	57	26244	1.6533	ug/L	93
26) 11dichlorota	5.48	63	22179	1.0373	ug/L	96
27) Vinylacetate	5.59	43	162389m	11.1124	ug/L	96
28) chloroprene	5.61	53	29420	1.7189	ug/L	96
29) Diisopether	5.63	45	29197	0.8869	ug/L	96
30) ETBE	6.08	59	31112	1.0008	ug/L	97
31) 22dichloropr	6.22	77	18392	0.9376	ug/L	98
32) c12dichlorte	6.23	96	14615	0.9861	ug/L	95
33) 2Butanone	6.29	72	12809	8.2131	ug/L	80
34) propionitrile	6.32	54	10826m	7.6938	ug/L	96
35) Ethylacetate	6.36	88	2061	3.6359	ug/L #	55
36) methacrylonitrile	6.50	67	8037	1.4613	ug/L	87
37) Bromochlorma	6.50	128	6923	1.0018	ug/L	93
38) Tetrahydofur	6.59	42	34740	10.5481	ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL2.D Vial: 6
Acq On : 25 Nov 2019 00:19 Operator: RLD-DGS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:05:14 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:59:09 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.60	83	24885	1.0802 ug/L		88
40)	111trichlota	6.84	97	19635	0.9321 ug/L		92
42)	Cyclohexane	6.93	56	13004	0.7306 ug/L		83
43)	Carbtetraclo	7.05	119	15079	0.8510 ug/L		96
44)	11dicloprope	7.05	110	5416	0.8212 ug/L		92
46)	Benzene	7.30	78	53467	1.0707 ug/L	#	82
47)	12dichlorota	7.31	62	16523	0.9555 ug/L		88
48)	TAME	7.46	73	31398	0.9730 ug/L		94
49)	trichloroete	8.11	95	13009	0.9496 ug/L		93
50)	methylcyclohexane	8.35	83	20207	0.8111 ug/L		98
51)	12dicloropra	8.35	63	12399	0.9685 ug/L	#	94
52)	23Dicl1propene	8.43	75	18093	0.9643 ug/L		87
53)	Dibromometha	8.51	93	9550	1.1336 ug/L	#	80
54)	methylmethacrylate	8.53	69	6748	0.7644 ug/L		86
55)	14dioxane	8.55	88	3748	37.5992 ug/L	#	62
56)	Bromodiclrma	8.70	83	17133	1.0163 ug/L		91
57)	2Nitropropane	8.96	43	29494	8.2353 ug/L		89
58)	2CLEVE	9.10	63	17333m	3.7299 ug/L		96
59)	c13dicloproe	9.28	75	18143	0.9225 ug/L		100
60)	4Meth2Pentan	9.48	43	100113	10.5579 ug/L		95
62)	Toluene	9.72	92	36259	1.0123 ug/L		90
63)	t13Dicloprop	9.99	75	15611	0.9065 ug/L		94
64)	ethylmethacrylate	10.14	69	28380	1.7456 ug/L		97
65)	112Triclotha	10.22	83	9248	0.9529 ug/L		92
66)	Tetrachlorte	10.45	166	15950	0.9939 ug/L		96
67)	13Diclorpropa	10.45	76	22428	1.0726 ug/L		95
69)	2Hexanone	10.57	43	68219	9.8141 ug/L		97
70)	Clorodibrmta	10.75	129	11099	0.8795 ug/L	#	81
71)	12Dibrometha	10.89	107	11998	0.9934 ug/L		100
72)	Chlorobenzen	11.58	112	40201	1.0704 ug/L		82
73)	1Clhexane	11.56	91	15831	0.8724 ug/L	#	63
74)	1112Tetclota	11.69	131	12560	0.9390 ug/L		93
75)	Ethylbenzene	11.74	91	57888	1.0072 ug/L		100
76)	m p-Xylene	11.90	106	43871	1.9271 ug/L		99
77)	o-Xylene	12.46	106	19917	0.8944 ug/L		93
78)	Styrene	12.47	104	28593	0.8187 ug/L		98
79)	Bromoform	12.70	173	7430	0.8690 ug/L		78
80)	Isopropylben	12.97	105	49306	0.9233 ug/L		100
81)	cyclohexanone	13.06	55	6125	18.9069 ug/L	#	62
84)	Bromobenzene	13.39	156	16264	1.0316 ug/L		97
85)	1122Tetrclta	13.36	83	18241	1.1194 ug/L		93
86)	123Triclproa	13.42	75	20625	1.0722 ug/L		83
87)	14dichloro2butene	13.45	53	3983	1.0508 ug/L	#	63
88)	n-Propylbenz	13.55	91	61130	1.0049 ug/L		94
89)	2chlorotolue	13.67	91	36877	0.9642 ug/L		96
90)	4chlorotolue	13.83	91	42319	0.9616 ug/L		99
91)	135Trimebenz	13.81	105	40258	0.9353 ug/L		98
92)	tbutylbenzen	14.28	119	37257	0.9706 ug/L		94
93)	124Trimetben	14.35	105	39513	0.9191 ug/L		100
94)	sbutylbenzen	14.60	105	47763	0.9085 ug/L		100
95)	13Diclorbenz	14.74	146	29419	1.0188 ug/L		95
96)	pIsopropylto	14.82	119	40801	0.8873 ug/L		95
97)	14dichlorobe	14.86	146	33464	1.0974 ug/L		85
98)	12dichlorobe	15.40	146	29159	1.0327 ug/L	#	75
99)	nButylbenzen	15.41	91	40526	0.9394 ug/L		97
100)	12dibromo3cl	16.50	157	3760	1.0817 ug/L		93
101)	135Trichlorobenzene	16.83	180	20520	0.9970 ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL2.D Vial: 6
Acq On : 25 Nov 2019 00:19 Operator: RLD-DGS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:05:14 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:59:09 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

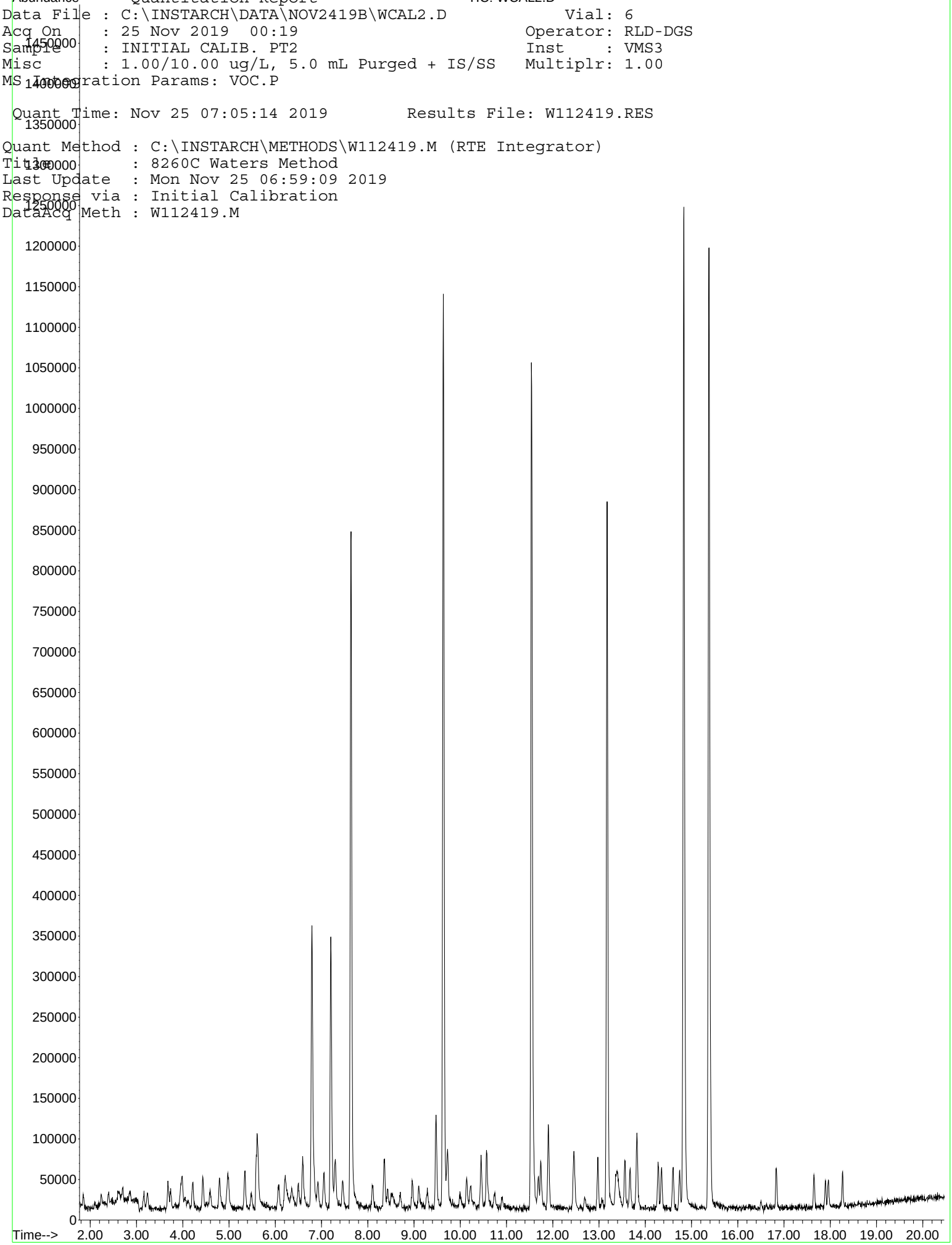
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	15375	0.9230	ug/L	95
103) Hexachlorobu	17.90	225	6864	0.8533	ug/L	87
104) Naphthalene	17.96	128	33033	0.9371	ug/L	95
105) 123Trichlben	18.27	180	14505	0.9506	ug/L	92

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL2.D Vial: 6
Acq On : 25 Nov 2019 00:19 Operator: RLD-DGS
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 1.00/10.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:05:14 2019 Results File: W112419.RES

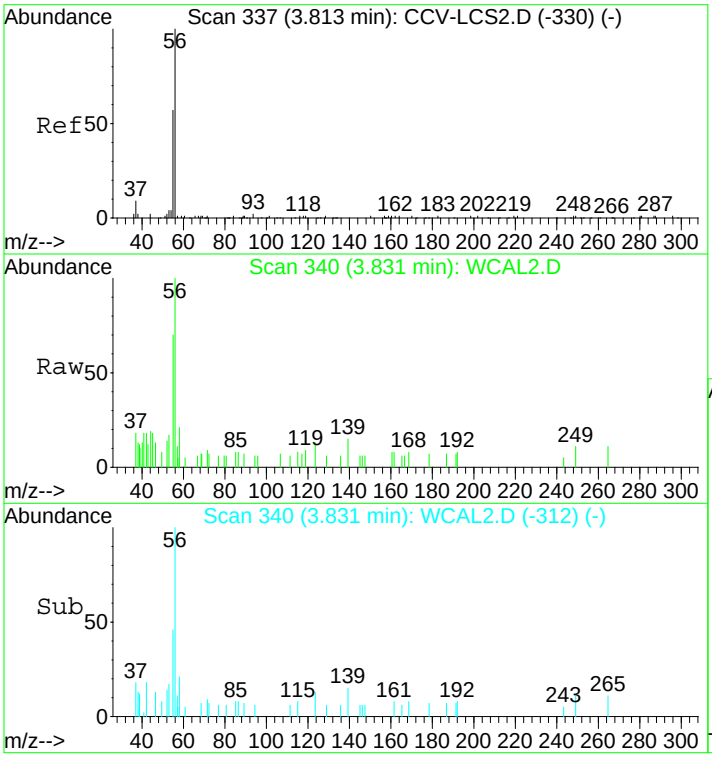
Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:59:09 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M



After Manual Integration

RJ 12/11/2019

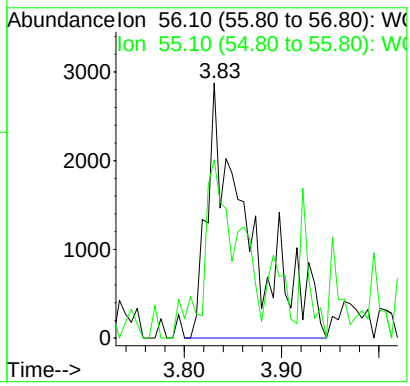
DGS 12/12/2019

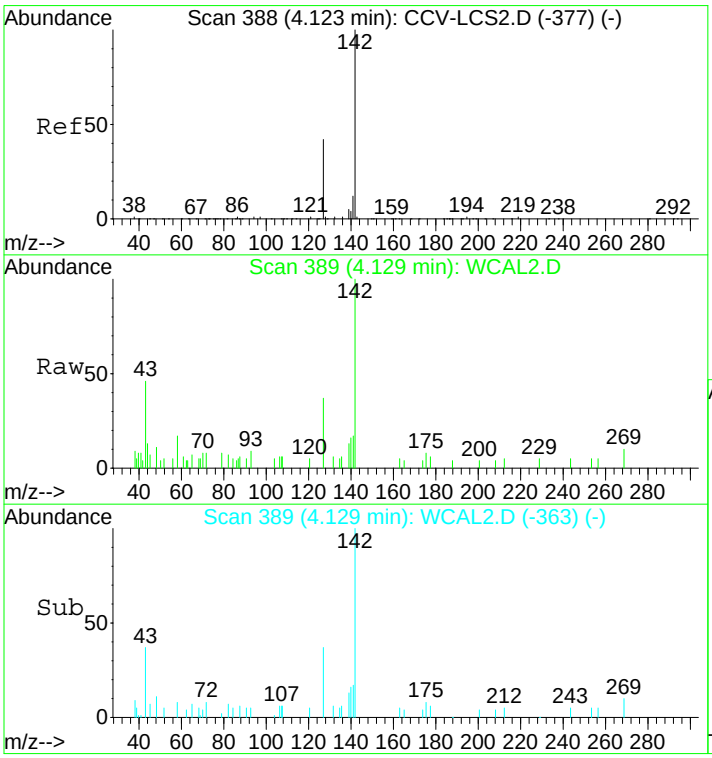


#12
Acrolein
Concen: 4.32 ug/L m
RT: 3.83 min Scan# 340
Delta R.T. 0.02 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion: 56 Resp: 8456

Ion	Ratio	Lower	Upper
56	100		
55	58.8	44.4	84.4

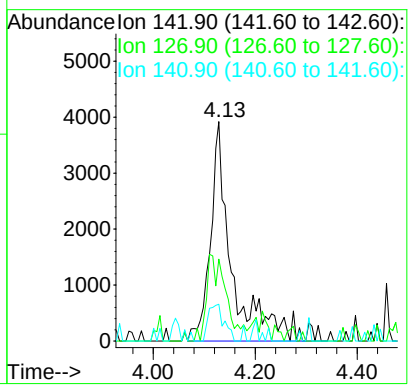


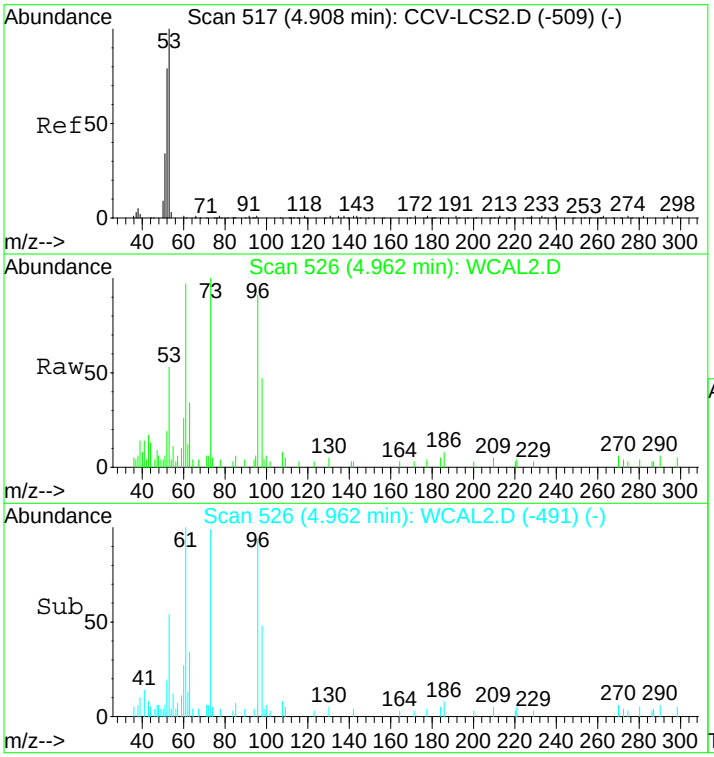


#16
Iodomethane
Concen: 1.17 ug/L m
RT: 4.13 min Scan# 389
Delta R.T. 0.01 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion:142 Resp: 11687

Ion	Ratio	Lower	Upper
142	100		
127	38.9	19.1	59.1
141	12.0	0.0	35.4

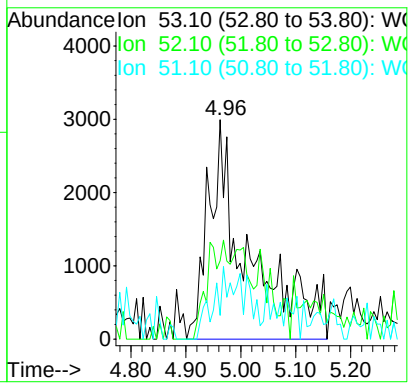




#22
Acrylonitrile
Concen: 4.69 ug/L m
RT: 4.96 min Scan# 526
Delta R.T. 0.06 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion: 53 Resp: 15164

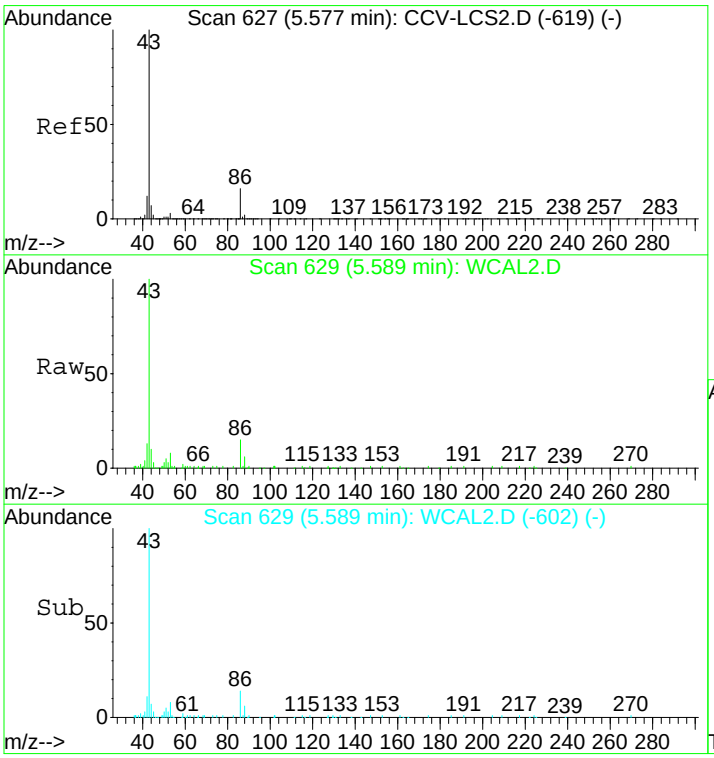
Ion	Ratio	Lower	Upper
53	100		
52	41.0	55.9	95.9#
51	12.4	15.5	55.5#



After Manual Integration

RJ 12/11/2019

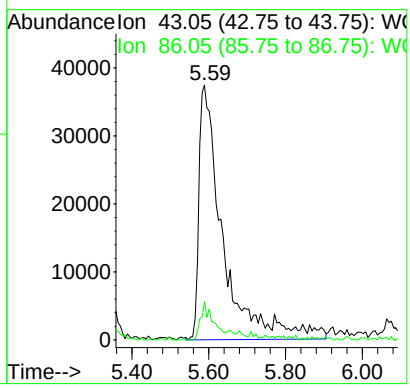
DGS 12/12/2019



#27
Vinylacetate
Concen: 11.11 ug/L m
RT: 5.59 min Scan# 629
Delta R.T. 0.01 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion: 43 Resp: 162389

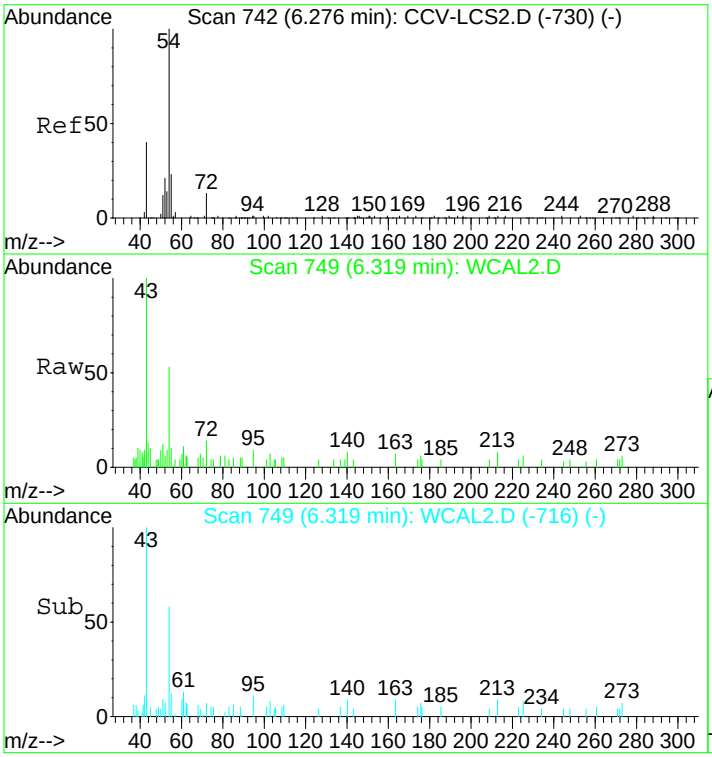
Ion	Ratio	Lower	Upper
43	100		
86	9.8	0.0	33.0



After Manual Integration

RJ 12/11/2019

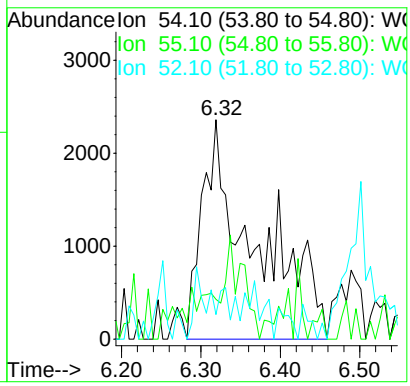
DGS 12/12/2019

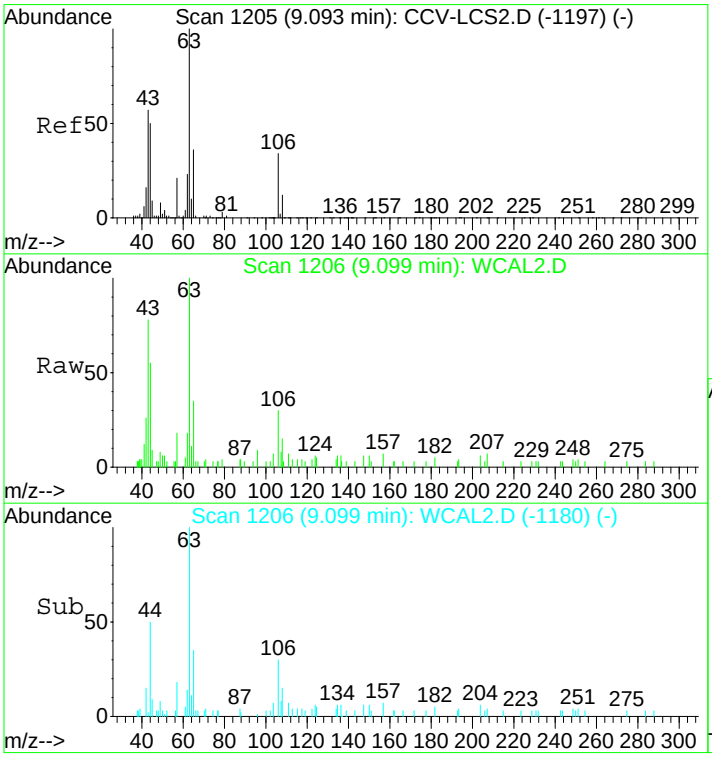


#34
propionitrile
Concen: 7.69 ug/L m
RT: 6.32 min Scan# 749
Delta R.T. 0.05 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion: 54 Resp: 10826

Ion	Ratio	Lower	Upper
54	100		
55	15.0	0.0	38.7
52	14.9	1.9	41.9

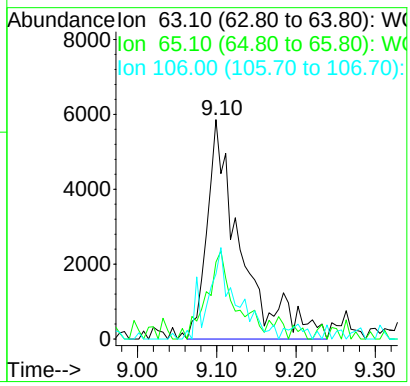


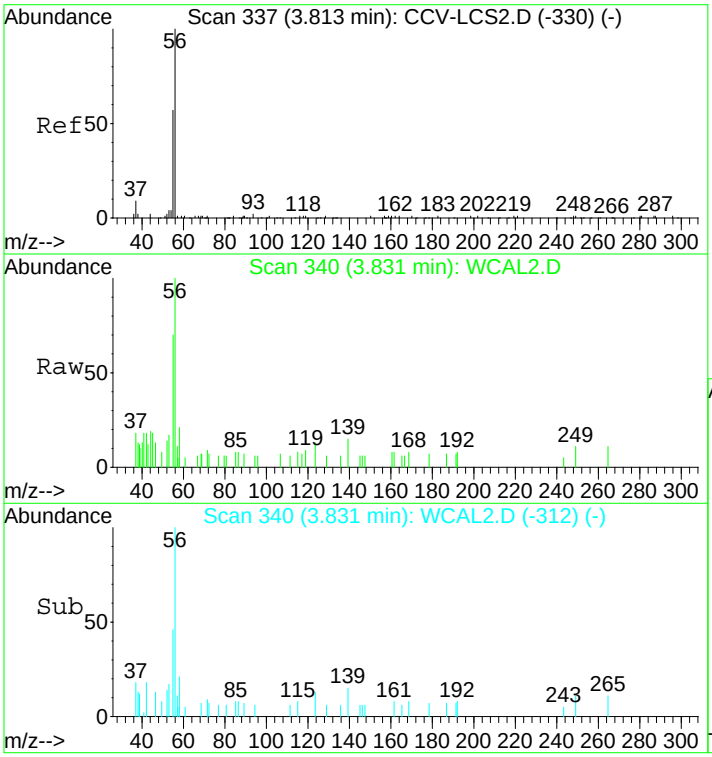


#58
2CLEVE
Concen: 3.73 ug/L m
RT: 9.10 min Scan# 1206
Delta R.T. 0.01 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion: 63 Resp: 17333

Ion	Ratio	Lower	Upper
63	100		
65	33.2	13.7	53.7
106	30.0	14.2	54.2

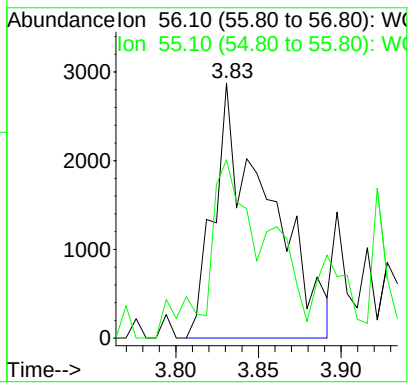




#12
Acrolein
Concen: 3.21 ug/L
RT: 3.83 min Scan# 340
Delta R.T. 0.02 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion: 56 Resp: 6586

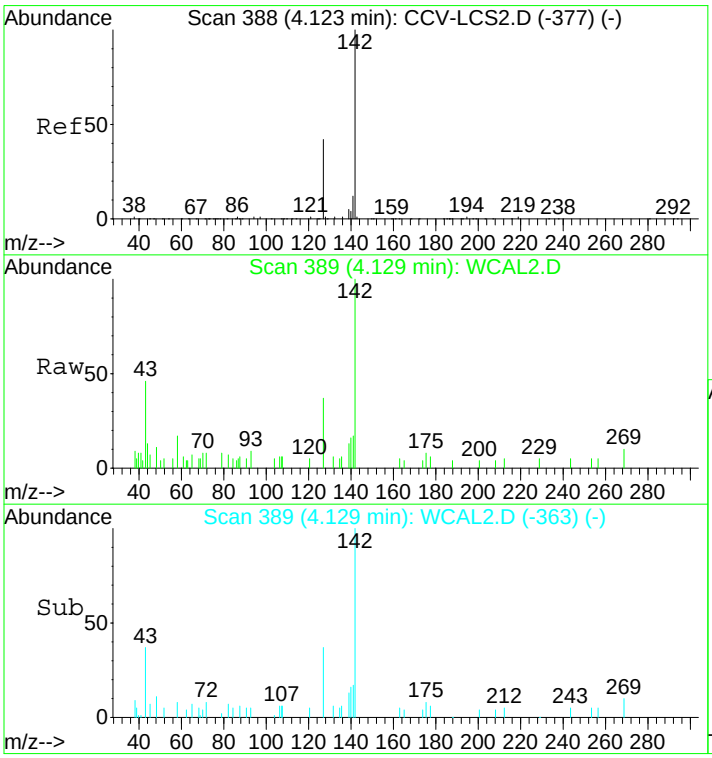
Ion	Ratio	Lower	Upper
56	100		
55	75.4	44.4	84.4



Before Manual Integration

12/11/2019

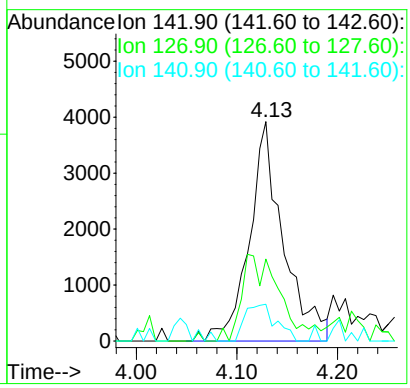
REASON # 2



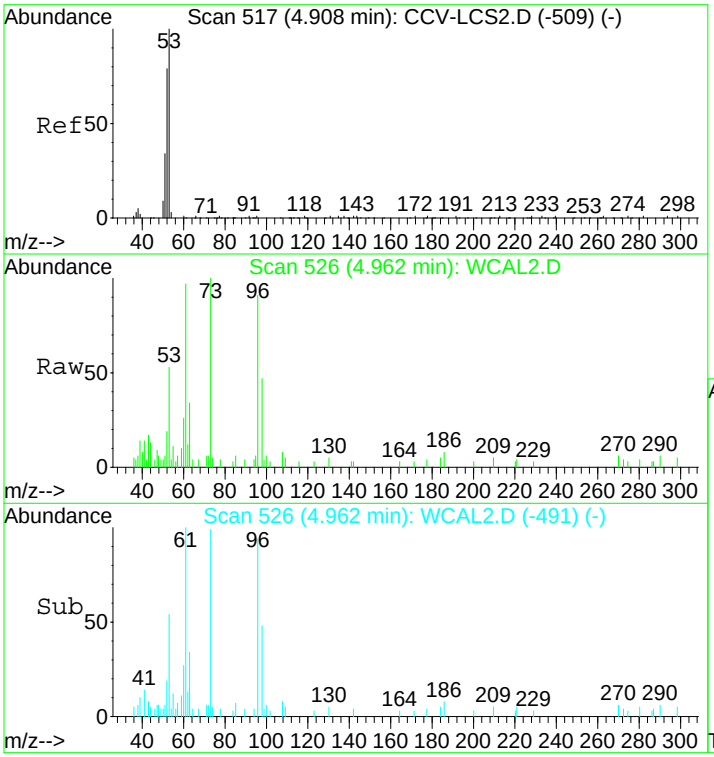
#16
Iodomethane
Concen: 3.95 ug/L
RT: 4.13 min Scan# 389
Delta R.T. 0.01 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion:142 Resp: 9227

Ion	Ratio	Lower	Upper
142	100		
127	49.3	19.1	59.1
141	15.2	0.0	35.4



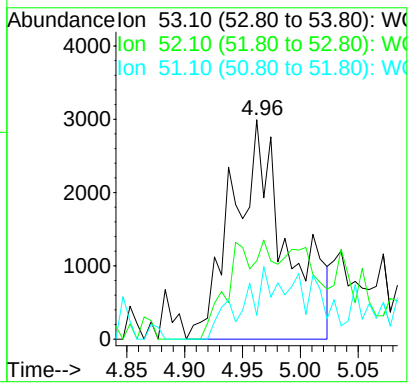
REASON # 2



#22
Acrylonitrile
Concen: 2.86 ug/L
RT: 4.96 min Scan# 526
Delta R.T. 0.06 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion: 53 Resp: 9759

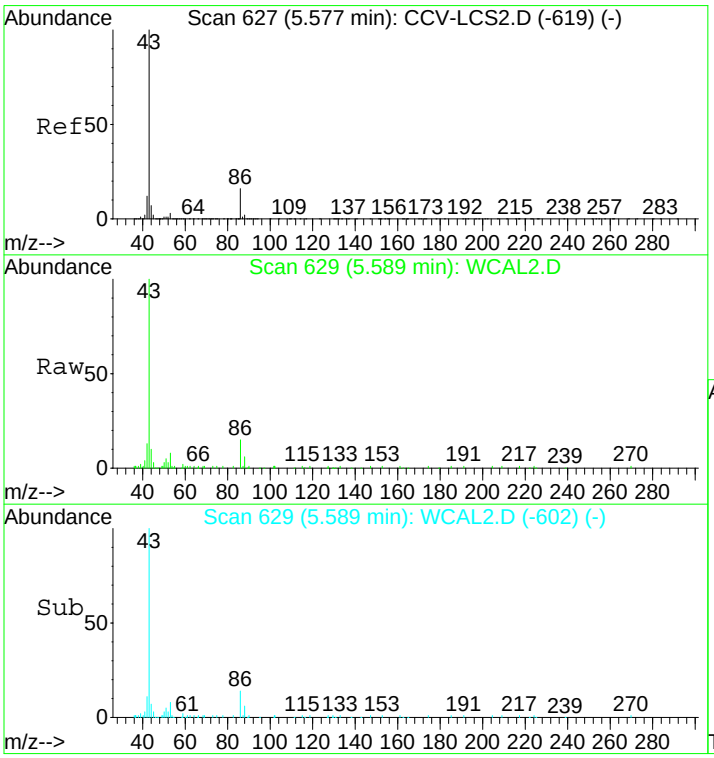
Ion	Ratio	Lower	Upper
53	100		
52	63.7	55.9	95.9
51	19.2	15.5	55.5



Before Manual Integration

12/11/2019

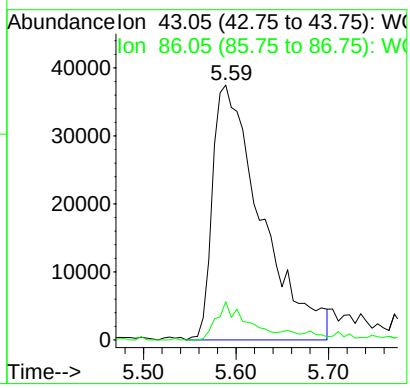
REASON # 2



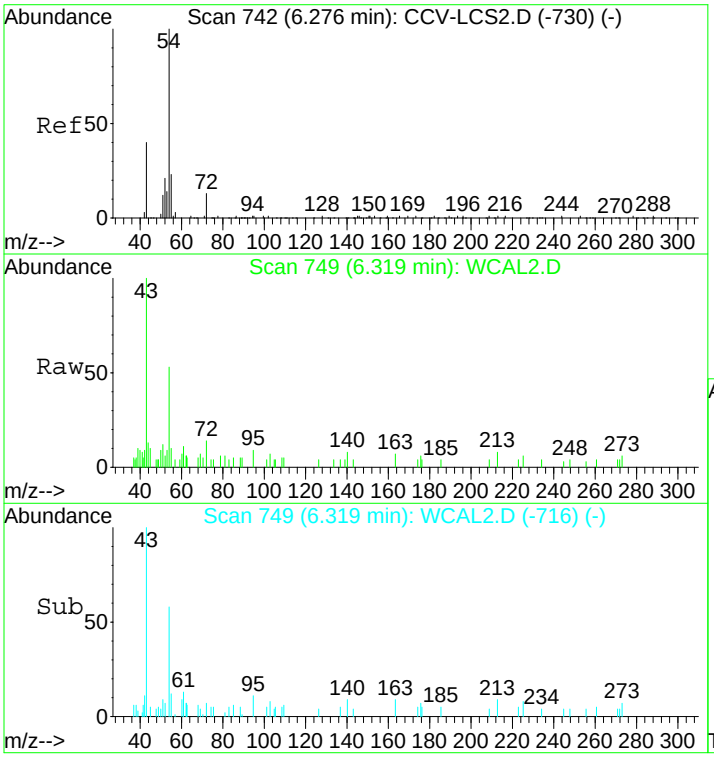
#27
Vinylacetate
Concen: 8.52 ug/L
RT: 5.59 min Scan# 629
Delta R.T. 0.01 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion: 43 Resp: 137693

Ion	Ratio	Lower	Upper
43	100		
86	11.6	0.0	33.0



REASON # 2



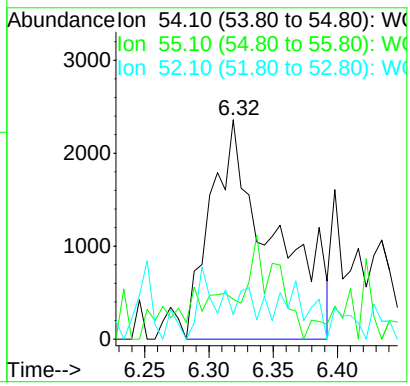
#34
propionitrile
Concen: 10.60 ug/L
RT: 6.32 min Scan# 749
Delta R.T. 0.05 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Before Manual Integration

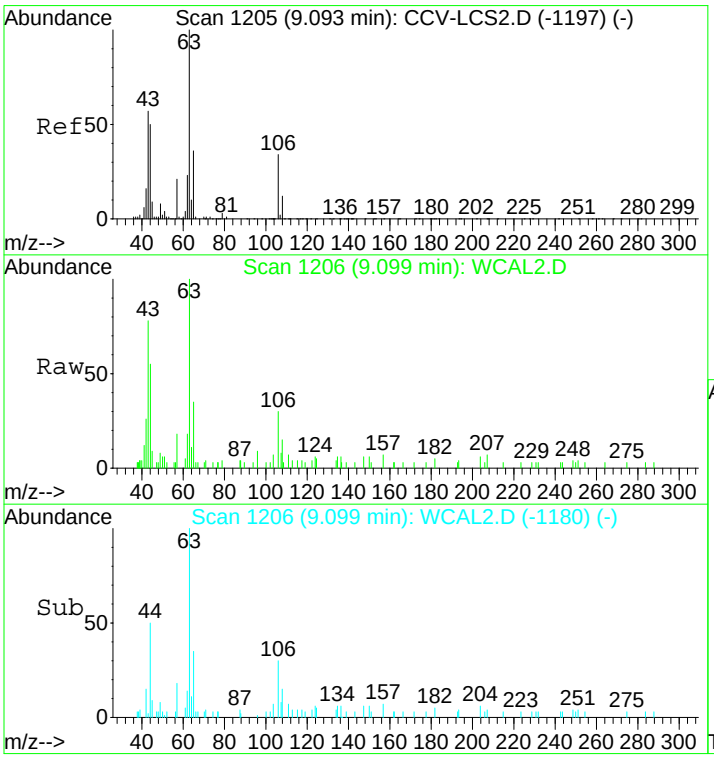
12/11/2019

Tgt Ion: 54 Resp: 7922

Ion	Ratio	Lower	Upper
54	100		
55	20.5	0.0	38.7
52	20.3	1.9	41.9



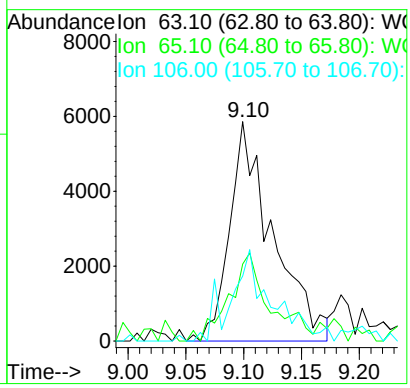
REASON # 2



#58
2CLEVE
Concen: 6.66 ug/L
RT: 9.10 min Scan# 1206
Delta R.T. 0.01 min
Lab File: WCAL2.D
Acq: 25 Nov 2019 00:19

Tgt Ion: 63 Resp: 15184

Ion	Ratio	Lower	Upper
63	100		
65	37.9	13.7	53.7
106	34.2	14.2	54.2



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL3.D Vial: 7
Acq On : 25 Nov 2019 00:50 Operator: RLD-DGS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:05:59 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:56:58 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	965034	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	815504	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	463453	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	258030	20.073	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.20	102	69995	20.789	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 104	%		
61) SURRd8Tolule	9.63	98	976550	20.261	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 101	%		
83) SURR4BrFBenz	13.18	95	378352	20.044	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	28136	1.8895	ug/L	94
3) Chloromethan	2.10	50	27868	2.0983	ug/L	92
4) VinylChlorid	2.24	62	34188	1.9271	ug/L	94
5) Bromomethane	2.69	94	24623	2.1052	ug/L	95
6) Chloroethane	2.85	64	30812	2.2005	ug/L	88
7) Dichloroflmethane	3.16	67	47668	1.9294	ug/L	96
8) Trichlorofma	3.23	101	46476	2.3179	ug/L	92
9) Ethylether	3.68	59	19572	1.9760	ug/L	92
10) dichlorotfluoroethan	3.68	67	27697	1.9852	ug/L	97
11) propyleneoxide	3.73	58	44315	19.3526	ug/L	96
12) Acrolein	3.82	56	21838m	12.4037	ug/L	97
13) 11dichlorthe	3.95	96	24328	2.1633	ug/L	98
14) Trichlorotfluoroeth	3.98	101	48986	4.4202	ug/L	98
15) Acetone	4.04	43	63921	20.2662	ug/L	97
16) Iodomethane	4.12	142	25849	3.5227	ug/L	95
17) Carbon Dislf	4.21	76	129259	4.2285	ug/L	99
18) allylchloride	4.43	41	68193	4.2451	ug/L	96
19) methylacetate	4.50	74	10054	1.8402	ug/L	99
20) Methylchlorid	4.59	84	31533	2.0091	ug/L	96
21) tbutylalcohol	4.80	59	107345	100.3789	ug/L	100
22) Acrylonitrile	4.93	53	25894m	9.2801	ug/L	92
23) t12dichlorte	4.96	96	26480	2.0011	ug/L	93
24) MtBE	4.99	73	72409	1.9675	ug/L	96
25) Hexane	5.34	57	63013	4.2378	ug/L	96
26) 11dichlorota	5.47	63	44919	1.9707	ug/L	93
27) Vinylacetate	5.58	43	333322	22.2663	ug/L	97
28) chloroprene	5.61	53	71599	4.3916	ug/L	94
29) Diisopether	5.63	45	70027	2.1367	ug/L	98
30) ETBE	6.07	59	63818	2.0346	ug/L	99
31) 22dichloropr	6.21	77	39462	1.9414	ug/L	97
32) c12dichlorte	6.22	96	31106	2.0171	ug/L	88
33) 2Butanone	6.25	72	27645	18.5809	ug/L	89
34) propionitrile	6.30	54	23014	19.2090	ug/L	97
35) Ethylacetate	6.34	88	5300	10.3756	ug/L	93
36) methacrylonitrile	6.49	67	19492	3.9237	ug/L	92
37) Bromochlorma	6.50	128	15286	2.1082	ug/L	92
38) Tetrahydofur	6.59	42	66769	18.8215	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL3.D Vial: 7
Acq On : 25 Nov 2019 00:50 Operator: RLD-DGS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:05:59 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:56:58 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.60	83	47429	1.9646 ug/L		100
40)	111trichlota	6.84	97	41482	1.9639 ug/L		93
42)	Cyclohexane	6.92	56	35733	2.2497 ug/L		99
43)	Carbtetraclo	7.05	119	34495	2.0432 ug/L		96
44)	11dicloprope	7.05	110	11879	1.9043 ug/L		96
46)	Benzene	7.29	78	109540	2.0520 ug/L		96
47)	12dichlorota	7.30	62	37281	2.0603 ug/L		95
48)	TAME	7.46	73	64438	2.0306 ug/L		94
49)	trichloroete	8.10	95	29036	2.1140 ug/L		93
50)	methylcyclohexane	8.36	83	45967	1.9562 ug/L		96
51)	12dicloropra	8.35	63	27681	2.0872 ug/L		93
52)	23Dicl1propene	8.42	75	36603	1.9405 ug/L		97
53)	Dibromometha	8.50	93	17154	1.8977 ug/L		90
54)	methylmethacrylate	8.54	69	15152	1.8906 ug/L		90
55)	14dioxane	8.55	88	7638	83.8223 ug/L		85
56)	Bromodiclrma	8.70	83	32824	1.9092 ug/L		95
57)	2Nitropropane	8.96	43	66303	19.6102 ug/L		92
58)	2CLEVE	9.09	63	38086	9.2260 ug/L		97
59)	c13dicloproe	9.28	75	40686	2.1757 ug/L		89
60)	4Meth2Pentan	9.48	43	221560	21.5118 ug/L		93
62)	Toluene	9.73	92	80174	2.1179 ug/L		100
63)	t13Dicloprop	9.99	75	32972	1.9560 ug/L		92
64)	ethylmethacrylate	10.14	69	58927	3.6716 ug/L		98
65)	112Triclotha	10.22	83	20990	2.1490 ug/L		95
66)	Tetrachlorte	10.45	166	32313	2.0347 ug/L		94
67)	13Diclorpropa	10.44	76	43361	1.9614 ug/L		97
69)	2Hexanone	10.57	43	141872	18.5920 ug/L		97
70)	Clorodibrmta	10.75	129	26347	2.1759 ug/L		99
71)	12Dibrometha	10.90	107	23544	1.8903 ug/L		97
72)	Chlorobenzen	11.58	112	84368	2.0837 ug/L		93
73)	1Clhexane	11.56	91	36023	2.0534 ug/L		86
74)	1112Tetclota	11.68	131	27298	2.0248 ug/L		95
75)	Ethylbenzene	11.75	91	123693	1.9982 ug/L		100
76)	m p-Xylene	11.90	106	97098	4.1478 ug/L		98
77)	o-Xylene	12.45	106	43442	1.9800 ug/L		95
78)	Styrene	12.47	104	66508	1.9468 ug/L		96
79)	Bromoform	12.69	173	16863	2.0726 ug/L		92
80)	Isopropylben	12.97	105	109254	2.0176 ug/L		99
81)	cyclohexanone	13.06	55	11335	35.6046 ug/L		91
84)	Bromobenzene	13.38	156	34354	2.0760 ug/L		100
85)	1122Tetrclta	13.36	83	36254	2.0079 ug/L		100
86)	123Triclproa	13.42	75	38290	1.8427 ug/L		92
87)	14dichloro2butene	13.45	53	5655	1.3893 ug/L	#	80
88)	n-Propylbenz	13.56	91	136049	2.0802 ug/L		97
89)	2chlorotolue	13.67	91	83717	2.0298 ug/L		99
90)	4chlorotolue	13.82	91	97939	2.0725 ug/L		96
91)	135Trimebenz	13.82	105	92218	2.0992 ug/L		98
92)	tbutylbenzen	14.28	119	80831	2.0620 ug/L		99
93)	124Trimetben	14.36	105	90970	2.0704 ug/L		99
94)	sbutylbenzen	14.60	105	114509	2.1509 ug/L		99
95)	13Diclorbenz	14.74	146	62931	2.0173 ug/L		95
96)	pIsopropylto	14.81	119	96984	2.0915 ug/L		99
97)	14dichlorobe	14.87	146	67608	1.9847 ug/L		93
98)	12dichlorobe	15.41	146	61115	1.9450 ug/L		85
99)	nButylbenzen	15.41	91	93636	2.1048 ug/L		96
100)	12dibromo3cl	16.50	157	6844	1.8400 ug/L		97
101)	135Trichlorobenzene	16.83	180	44231	2.0758 ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL3.D Vial: 7
Acq On : 25 Nov 2019 00:50 Operator: RLD-DGS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:05:59 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:56:58 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	33622	1.9168	ug/L	99
103)	Hexachlorobu	17.89	225	17330	2.0655	ug/L	98
104)	Naphthalene	17.96	128	70763	2.0003	ug/L	99
105)	123Trichlben	18.26	180	31601	1.9952	ug/L	96

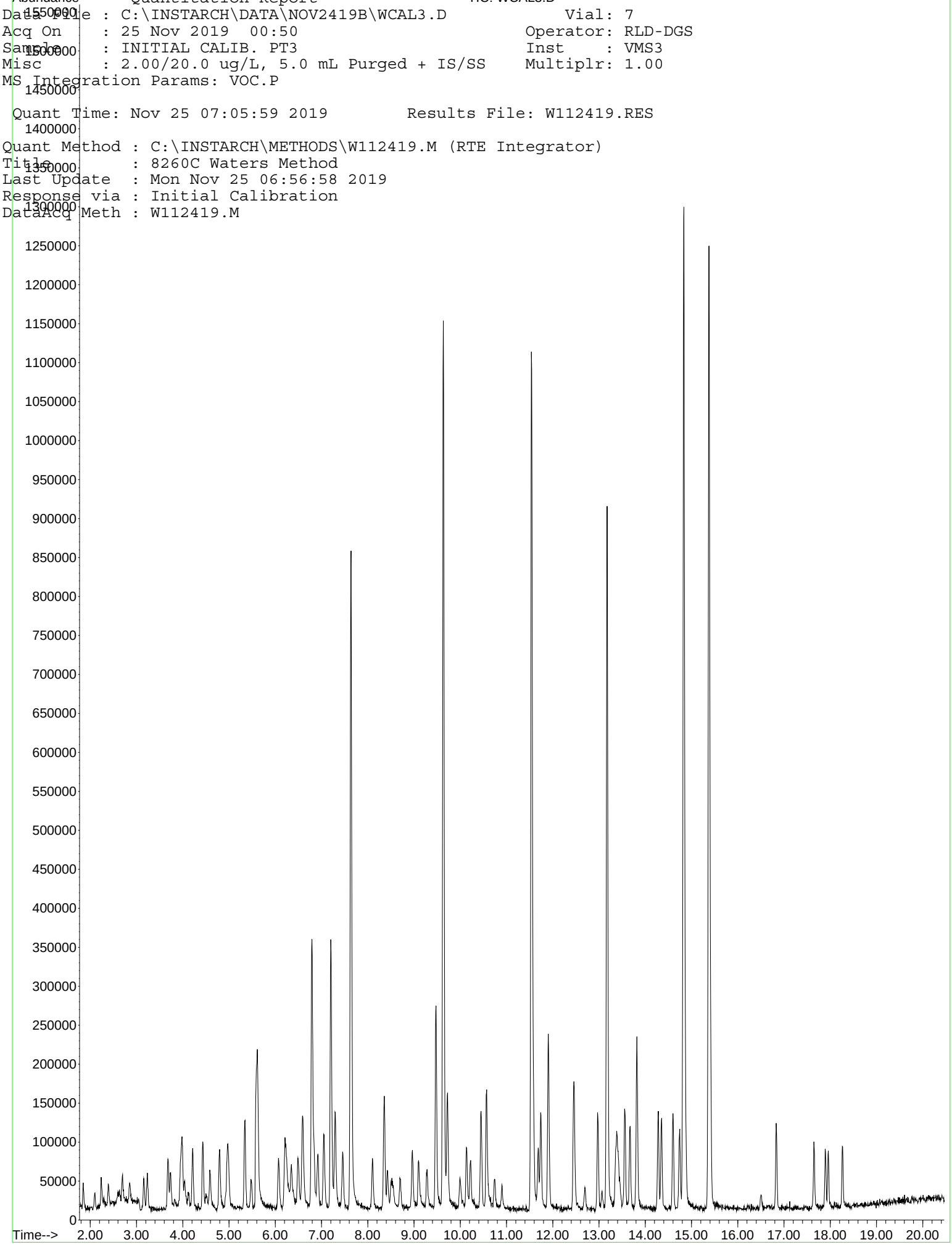
(#) = qualifier out of range (m) = manual integration

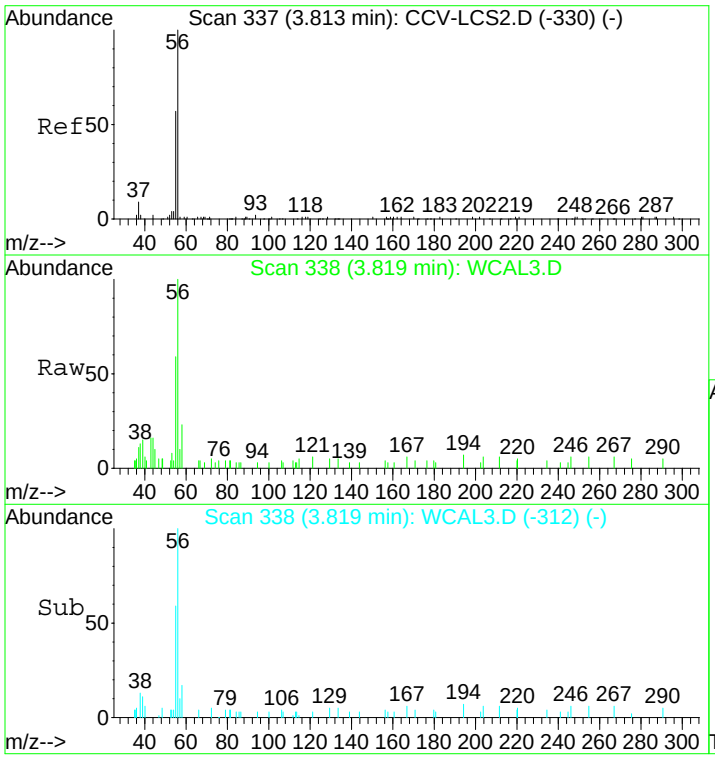
Abundance Quantitation Report TIC: WCAL3.D

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL3.D Vial: 7
Acq On : 25 Nov 2019 00:50 Operator: RLD-DGS
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:05:59 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:56:58 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

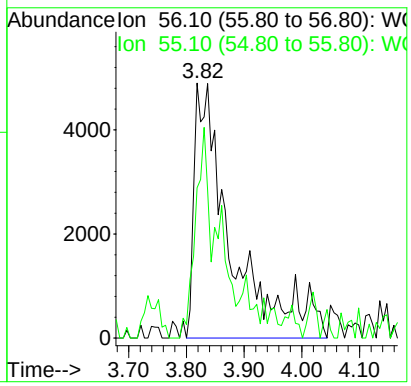




#12
Acrolein
Concen: 12.40 ug/L m
RT: 3.82 min Scan# 338
Delta R.T. 0.01 min
Lab File: WCAL3.D
Acq: 25 Nov 2019 00:50

Tgt Ion: 56 Resp: 21838

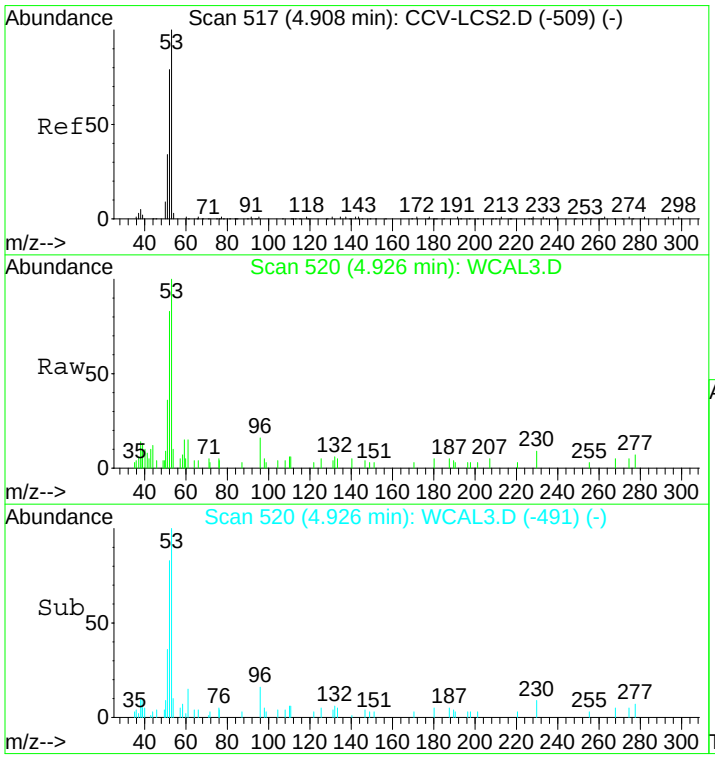
Ion	Ratio	Lower	Upper
56	100		
55	55.7	44.4	84.4



After Manual Integration

12/11/2019

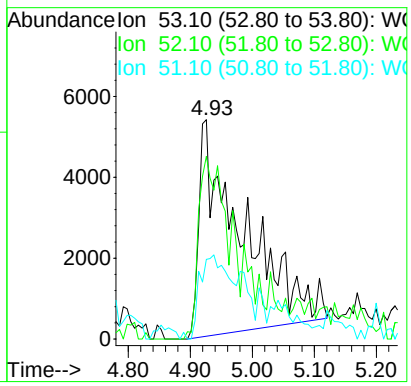
12/12/2019

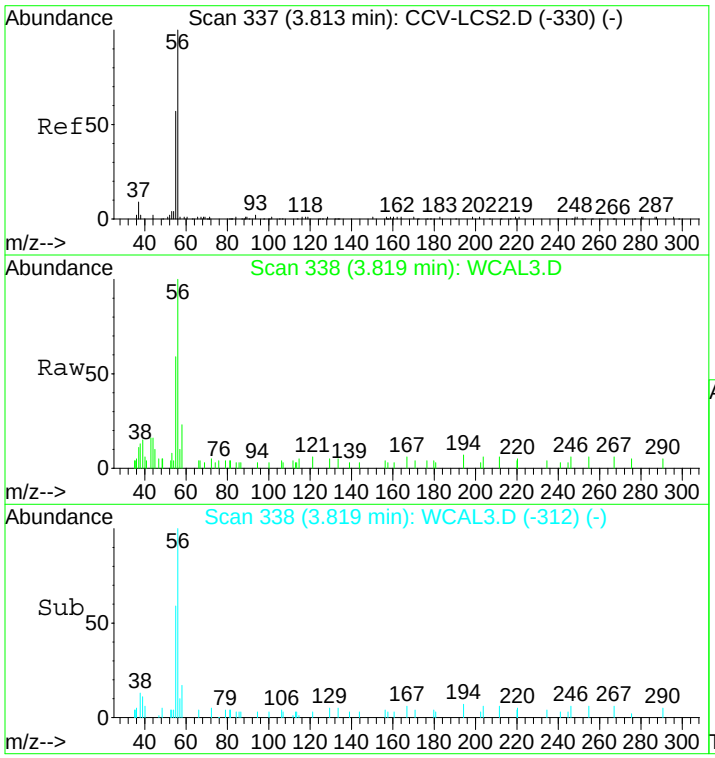


#22
Acrylonitrile
Concen: 9.28 ug/L m
RT: 4.93 min Scan# 520
Delta R.T. 0.02 min
Lab File: WCAL3.D
Acq: 25 Nov 2019 00:50

Tgt Ion: 53 Resp: 25894

Ion	Ratio	Lower	Upper
53	100		
52	70.2	55.9	95.9
51	35.3	15.5	55.5

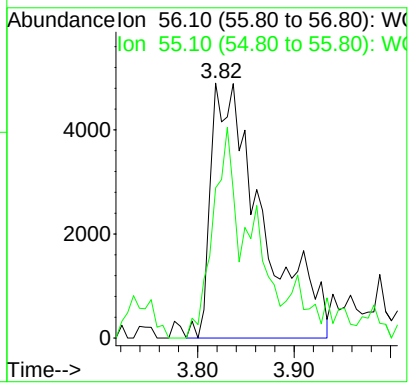




#12
Acrolein
Concen: 8.73 ug/L
RT: 3.82 min Scan# 338
Delta R.T. 0.01 min
Lab File: WCAL3.D
Acq: 25 Nov 2019 00:50

Tgt Ion: 56 Resp: 18184

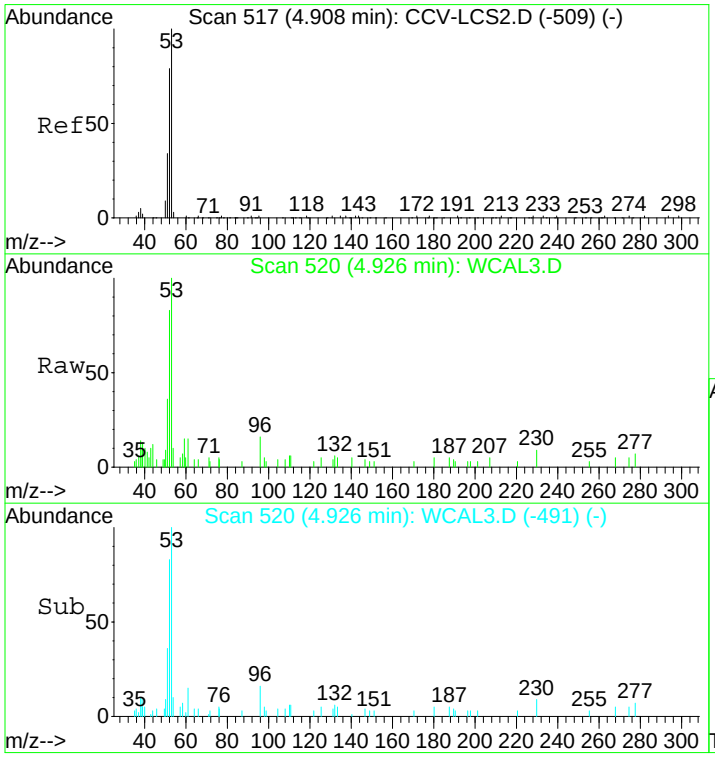
Ion	Ratio	Lower	Upper
56	100		
55	66.9	44.4	84.4



Before Manual Integration

12/11/2019

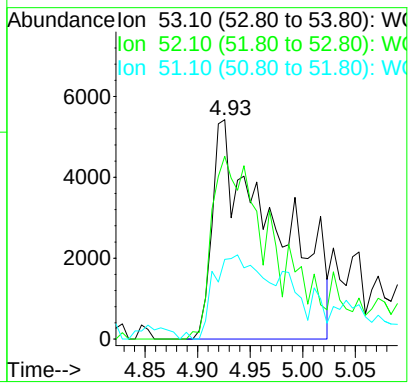
REASON # 2



#22
Acrylonitrile
Concen: 6.35 ug/L
RT: 4.93 min Scan# 520
Delta R.T. 0.02 min
Lab File: WCAL3.D
Acq: 25 Nov 2019 00:50

Tgt Ion: 53 Resp: 22038

Ion	Ratio	Lower	Upper
53	100		
52	82.5	55.9	95.9
51	41.4	15.5	55.5



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL4.D Vial: 8
Acq On : 25 Nov 2019 1:21 Operator: RLD-DGS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:57:22 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:57:13 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	969673	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	831953	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	482168	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	264885	20.489	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 102	%		
45) SURR12DCAd4	7.20	102	70372	20.598	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 103	%		
61) SURRd8Tolule	9.63	98	986864	20.311	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 102	%		
83) SURR4BrFBenz	13.18	95	394621	20.083	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	88676	6.0096	ug/L	98
3) Chloromethan	2.10	50	70962	5.2528	ug/L	97
4) VinylChlorid	2.24	62	95754	5.4211	ug/L	93
5) Bromomethane	2.70	94	60406	5.0513	ug/L	95
6) Chloroethane	2.86	64	68388	4.7036	ug/L	98
7) Dichloroflmethane	3.16	67	121268	4.9285	ug/L	99
8) Trichlorofma	3.23	101	116225	5.5482	ug/L	98
9) Ethylether	3.68	59	46896	4.7261	ug/L	96
10) dichlorotfluoroethan	3.68	67	77417	5.5325	ug/L	98
11) propyleneoxide	3.73	58	111097	48.8113	ug/L	94
12) Acrolein	3.82	56	47761	26.7056	ug/L	88
13) 11dichlorthe	3.95	96	62826	5.4487	ug/L	96
14) Trichlorotfluoroeth	3.99	101	130312	11.4029	ug/L	99
15) Acetone	4.03	43	149742	47.0920	ug/L	95
16) Iodomethane	4.13	142	81165	11.4643	ug/L	99
17) Carbon Dislf	4.21	76	335524	10.7698	ug/L	99
18) allylchloride	4.43	41	167012	10.1909	ug/L	98
19) methylacetate	4.51	74	25811	4.8302	ug/L	99
20) Methylchlorid	4.59	84	70242	4.4489	ug/L	95
21) tbutylalcohol	4.79	59	272908	253.7365	ug/L	100
22) Acrylonitrile	4.92	53	76749	29.4368	ug/L	97
23) t12dichlorte	4.96	96	70818	5.3255	ug/L	97
24) MtBE	4.99	73	178093	4.8357	ug/L	99
25) Hexane	5.35	57	175234	11.5569	ug/L	97
26) 11dichlorota	5.48	63	115543	5.0635	ug/L	98
27) Vinylacetate	5.58	43	907327	58.6589	ug/L	98
28) chloroprene	5.61	53	188628	11.2392	ug/L	99
29) Diisopether	5.63	45	178301	5.3234	ug/L	98
30) ETBE	6.07	59	162862	5.1452	ug/L	99
31) 22dichloropr	6.20	77	102188	5.0402	ug/L	98
32) c12dichlorte	6.22	96	76019	4.8955	ug/L	93
33) 2Butanone	6.24	72	76769	52.5956	ug/L	97
34) propionitrile	6.28	54	68676	57.8094	ug/L	94
35) Ethylacetate	6.34	88	14634	28.1587	ug/L #	90
36) methacrylonitrile	6.48	67	55563	11.2024	ug/L	96
37) Bromochlorma	6.50	128	34873	4.7227	ug/L	99
38) Tetrahydofur	6.58	42	167238	47.6185	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL4.D Vial: 8
Acq On : 25 Nov 2019 1:21 Operator: RLD-DGS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:57:22 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:57:13 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.60	83	121651	5.0373 ug/L	100
40)	111trichlota	6.84	97	110718	5.2404 ug/L	97
42)	Cyclohexane	6.92	56	99585	6.0508 ug/L	96
43)	Carbtetraclo	7.06	119	94933	5.5661 ug/L	97
44)	11dicloprope	7.06	110	36056	5.8456 ug/L	91
46)	Benzene	7.29	78	275086	5.0954 ug/L	99
47)	12dichlorota	7.30	62	87453	4.7740 ug/L	94
48)	TAME	7.46	73	170362	5.3225 ug/L	97
49)	trichloroete	8.10	95	71105	5.0797 ug/L	97
50)	methylcyclohexane	8.36	83	132864	5.6581 ug/L	97
51)	12dicloropra	8.36	63	63439	4.7092 ug/L	91
52)	23Dicl1propene	8.42	75	91934	4.8991 ug/L	95
53)	Dibromometha	8.51	93	43281	4.8478 ug/L	97
54)	methylmethacrylate	8.53	69	41407	5.2374 ug/L	98
55)	14dioxane	8.55	88	23220	268.0613 ug/L	95
56)	Bromodiclrma	8.70	83	87369	5.1155 ug/L	98
57)	2Nitropropane	8.97	43	180012	53.2462 ug/L	97
58)	2CLEVE	9.09	63	116598	28.8541 ug/L	99
59)	c13dicloproe	9.28	75	103861	5.4086 ug/L	99
60)	4Meth2Pentan	9.48	43	548011	51.9711 ug/L	97
62)	Toluene	9.72	92	192556	4.9887 ug/L	99
63)	t13Dicloprop	9.99	75	86553	5.1383 ug/L	98
64)	ethylmethacrylate	10.13	69	163816	10.4440 ug/L	98
65)	112Triclotha	10.22	83	49618	4.9332 ug/L	95
66)	Tetrachlorte	10.45	166	85852	5.3569 ug/L	98
67)	13Diclorpropa	10.44	76	108759	4.9198 ug/L	99
69)	2Hexanone	10.57	43	388030	51.0429 ug/L	98
70)	Clorodibrmta	10.74	129	66240	5.2469 ug/L	96
71)	12Dibrometha	10.90	107	62103	4.9554 ug/L	96
72)	Chlorobenzen	11.58	112	208120	4.9864 ug/L	97
73)	1Clhexane	11.56	91	95932	5.3247 ug/L	97
74)	1112Tetclota	11.69	131	67637	4.8975 ug/L	95
75)	Ethylbenzene	11.74	91	310634	4.9200 ug/L	99
76)	m p-Xylene	11.90	106	258088	10.7081 ug/L	100
77)	o-Xylene	12.45	106	120193	5.3833 ug/L	97
78)	Styrene	12.46	104	186917	5.3991 ug/L	97
79)	Bromoform	12.69	173	41657	4.9587 ug/L	99
80)	Isopropylben	12.97	105	302109	5.4567 ug/L	97
81)	cyclohexanone	13.07	55	30712	98.1581 ug/L	99
84)	Bromobenzene	13.39	156	88667	5.1016 ug/L	98
85)	1122Tetrclta	13.36	83	88474	4.7051 ug/L	99
86)	123Triclproa	13.42	75	97180	4.6163 ug/L	97
87)	14dichloro2butene	13.45	53	18967	4.9864 ug/L	92
88)	n-Propylbenz	13.55	91	359130	5.2256 ug/L	97
89)	2chlorotolue	13.67	91	216188	5.0196 ug/L	98
90)	4chlorotolue	13.82	91	243407	4.9064 ug/L	99
91)	135Trimebenz	13.81	105	251957	5.4452 ug/L	97
92)	tbutylbenzen	14.28	119	216206	5.2606 ug/L	99
93)	124Trimetben	14.35	105	248892	5.3972 ug/L	98
94)	sbutylbenzen	14.60	105	310031	5.4939 ug/L	98
95)	13Diclorbenz	14.74	146	159801	4.9131 ug/L	99
96)	pIsopropylto	14.81	119	264582	5.4223 ug/L	98
97)	14dichlorobe	14.87	146	171213	4.8402 ug/L	99
98)	12dichlorobe	15.40	146	157748	4.8589 ug/L	95
99)	nButylbenzen	15.41	91	249203	5.3146 ug/L	99
100)	12dibromo3cl	16.50	157	16554	4.3950 ug/L	94
101)	135Trichlorobenzene	16.83	180	116552	5.2082 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL4.D Vial: 8
Acq On : 25 Nov 2019 1:21 Operator: RLD-DGS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:57:22 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:57:13 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	85724	4.7469	ug/L	98
103)	Hexachlorobu	17.90	225	42225	4.7981	ug/L	98
104)	Naphthalene	17.95	128	186361	5.0633	ug/L	99
105)	123Trichlben	18.26	180	78146	4.7452	ug/L	92

(#) = qualifier out of range (m) = manual integration

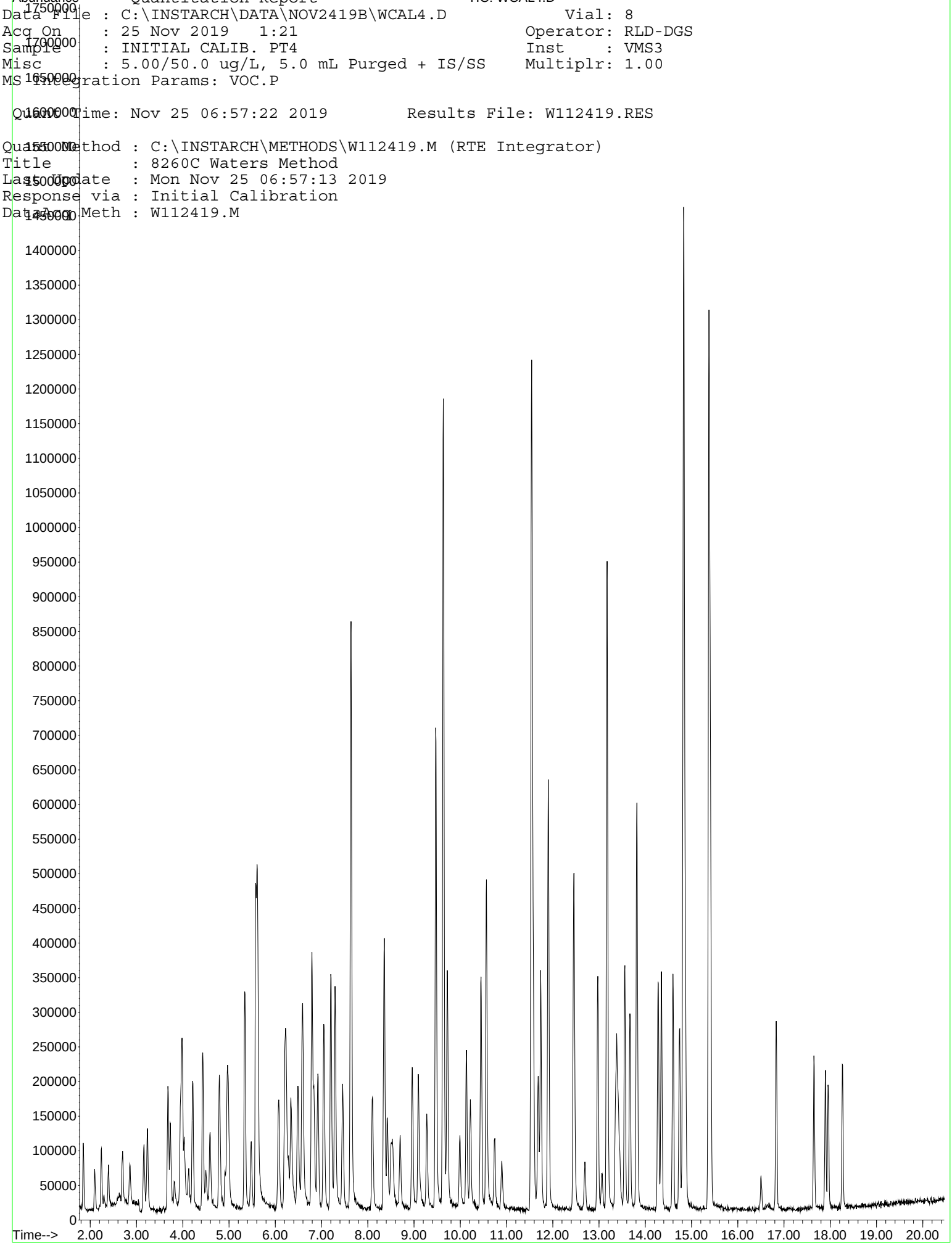
Quantitation Report

TIC: WCAL4.D

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL4.D Vial: 8
Acq On : 25 Nov 2019 1:21 Operator: RLD-DGS
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:57:22 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:57:13 2019
Response via : Initial Calibration
Data Acq Meth : W112419.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL5.D Vial: 9
Acq On : 25 Nov 2019 1:51 Operator: RLD-DGS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:57:59 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:57:52 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1006050	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	838976	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	497535	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	268382	19.911	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.20	102	70227	19.695	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 98	%		
61) SURRd8Tolule	9.63	98	999203	19.760	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99	%		
83) SURR4BrFBenz	13.18	95	400899	19.756	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 99	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	168949	10.6074	ug/L	100
3) Chloromethan	2.10	50	140432	9.9191	ug/L	100
4) VinylChlorid	2.24	62	198733	10.6648	ug/L	100
5) Bromomethane	2.70	94	118827	9.5528	ug/L	100
6) Chloroethane	2.85	64	138594	9.3258	ug/L	100
7) Dichloroflmethane	3.16	67	248635	9.7674	ug/L	100
8) Trichlorofma	3.23	101	250026	11.2571	ug/L	100
9) Ethylether	3.68	59	100644	9.8843	ug/L	100
10) dichlorotfluoroethan	3.68	67	155745	10.5040	ug/L	99
11) propyleneoxide	3.73	58	240940	102.6411	ug/L	100
12) Acrolein	3.81	56	112708	59.7233	ug/L	100
13) 11dichlorthe	3.95	96	132955	10.9179	ug/L	100
14) Trichlorotfluoroeth	3.99	101	281521	23.0957	ug/L	100
15) Acetone	4.03	43	321437	98.5794	ug/L	100
16) Iodomethane	4.12	142	208336	27.3612	ug/L	100
17) Carbon Dislf	4.21	76	692747	21.1071	ug/L	100
18) allylchloride	4.43	41	362258	21.2243	ug/L	100
19) methylacetate	4.49	74	57281	10.4203	ug/L	99
20) Methylchlorid	4.59	84	140210	8.7523	ug/L	100
21) tbutylalcohol	4.79	59	600531	536.5517	ug/L	100
22) Acrylonitrile	4.90	53	187606	66.4074	ug/L	100
23) t12dichlorte	4.96	96	147269	10.5369	ug/L	100
24) MtBE	4.99	73	384529	10.1301	ug/L	100
25) Hexane	5.34	57	397131	24.4820	ug/L	100
26) 11dichlorota	5.48	63	232083	9.7781	ug/L	100
27) Vinylacetate	5.58	43	1924032	115.8779	ug/L	100
28) chloroprene	5.61	53	402841	22.5754	ug/L	100
29) Diisopether	5.62	45	362904	10.3099	ug/L	100
30) ETBE	6.07	59	347485	10.5198	ug/L	100
31) 22dichloropr	6.21	77	217811	10.3379	ug/L	100
32) c12dichlorte	6.21	96	152368	9.4972	ug/L	100
33) 2Butanone	6.23	72	174652	113.8525	ug/L	100
34) propionitrile	6.27	54	165962	129.5904	ug/L	100
35) Ethylacetate	6.34	88	31441	56.5257	ug/L	99
36) methacrylonitrile	6.48	67	122550	23.1196	ug/L	100
37) Bromochlorma	6.50	128	72747	9.6021	ug/L	100
38) Tetrahydofur	6.58	42	364733	101.0599	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL5.D Vial: 9
Acq On : 25 Nov 2019 1:51 Operator: RLD-DGS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:57:59 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:57:52 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	253324	10.0952	ug/L	100
40)	111trichlota	6.84	97	239965	10.8429	ug/L	100
42)	Cyclohexane	6.92	56	210620	11.8370	ug/L	100
43)	Carbtetraclo	7.06	119	200440	11.0765	ug/L	100
44)	11dicloprope	7.05	110	72747	10.9065	ug/L	100
46)	Benzene	7.29	78	564962	10.0481	ug/L	100
47)	12dichlorota	7.30	62	186616	9.9084	ug/L	100
48)	TAME	7.46	73	363194	10.7974	ug/L	100
49)	trichloroete	8.10	95	144341	9.9071	ug/L	100
50)	methylcyclohexane	8.36	83	294939	11.7955	ug/L	100
51)	12dicloropra	8.35	63	137121	9.9261	ug/L	100
52)	23Dicl1propene	8.42	75	201811	10.4181	ug/L	100
53)	Dibromometha	8.50	93	87401	9.5080	ug/L	100
54)	methylmethacrylate	8.53	69	95684	11.5282	ug/L	100
55)	14dioxane	8.55	88	55329	604.7230	ug/L	100
56)	Bromodiclrma	8.70	83	183249	10.2939	ug/L	100
57)	2Nitropropane	8.97	43	413355	116.3358	ug/L	100
58)	2CLEVE	9.09	63	270971	62.2331	ug/L	100
59)	c13dicloproe	9.28	75	216690	10.7013	ug/L	100
60)	4Meth2Pentan	9.47	43	1140309	103.4166	ug/L	100
62)	Toluene	9.72	92	395334	9.8764	ug/L	100
63)	t13Dicloprop	9.99	75	187247	10.6552	ug/L	100
64)	ethylmethacrylate	10.13	69	368914	22.4206	ug/L	100
65)	112Triclotha	10.22	83	105778	10.1705	ug/L	99
66)	Tetrachlorte	10.45	166	179099	10.6195	ug/L	100
67)	13Diclorpropa	10.44	76	227854	9.9665	ug/L	100
69)	2Hexanone	10.56	43	851326	110.4731	ug/L	100
70)	Clorodibrmta	10.74	129	137680	10.7087	ug/L	100
71)	12Dibrometha	10.90	107	133321	10.5679	ug/L	100
72)	Chlorobenzen	11.58	112	417522	9.9251	ug/L	100
73)	1Clhexane	11.56	91	205502	11.1659	ug/L	100
74)	1112Tetclota	11.68	131	145059	10.4693	ug/L	100
75)	Ethylbenzene	11.74	91	674168	10.6224	ug/L	100
76)	m p-Xylene	11.90	106	529250	21.4708	ug/L	100
77)	o-Xylene	12.45	106	249987	10.9353	ug/L	100
78)	Styrene	12.46	104	414522	11.6867	ug/L	100
79)	Bromoform	12.69	173	89125	10.5421	ug/L	100
80)	Isopropylben	12.97	105	638816	11.2364	ug/L	100
81)	cyclohexanone	13.06	55	66475	211.6557	ug/L	100
84)	Bromobenzene	13.38	156	177867	9.8776	ug/L	100
85)	1122Tetrclta	13.36	83	182587	9.5226	ug/L	100
86)	123Triclproa	13.42	75	216793	10.1753	ug/L	100
87)	14dichloro2butene	13.45	53	43102	10.9889	ug/L	100
88)	n-Propylbenz	13.56	91	775424	10.8367	ug/L	100
89)	2chlorotolue	13.67	91	465611	10.4688	ug/L	100
90)	4chlorotolue	13.82	91	524427	10.2830	ug/L	100
91)	135Trimebenz	13.81	105	542292	11.1591	ug/L	100
92)	tbutylbenzen	14.28	119	464341	10.8362	ug/L	100
93)	124Trimetben	14.35	105	544937	11.2728	ug/L	100
94)	sbutylbenzen	14.60	105	678824	11.4318	ug/L	100
95)	13Diclorbenz	14.74	146	333198	9.9625	ug/L	100
96)	pIsopropylto	14.81	119	599104	11.7011	ug/L	100
97)	14dichlorobe	14.87	146	346022	9.5410	ug/L	100
98)	12dichlorobe	15.41	146	326345	9.7967	ug/L	100
99)	nButylbenzen	15.41	91	533185	10.8828	ug/L	100
100)	12dibromo3cl	16.51	157	38051	10.0957	ug/L	100
101)	135Trichlorobenzene	16.83	180	238793	10.2556	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL5.D Vial: 9
Acq On : 25 Nov 2019 1:51 Operator: RLD-DGS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:57:59 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:57:52 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	185566	10.0600	ug/L	100
103)	Hexachlorobu	17.90	225	93186	10.3454	ug/L	100
104)	Naphthalene	17.95	128	426946	11.2132	ug/L	100
105)	123Trichlben	18.27	180	177599	10.5588	ug/L	100

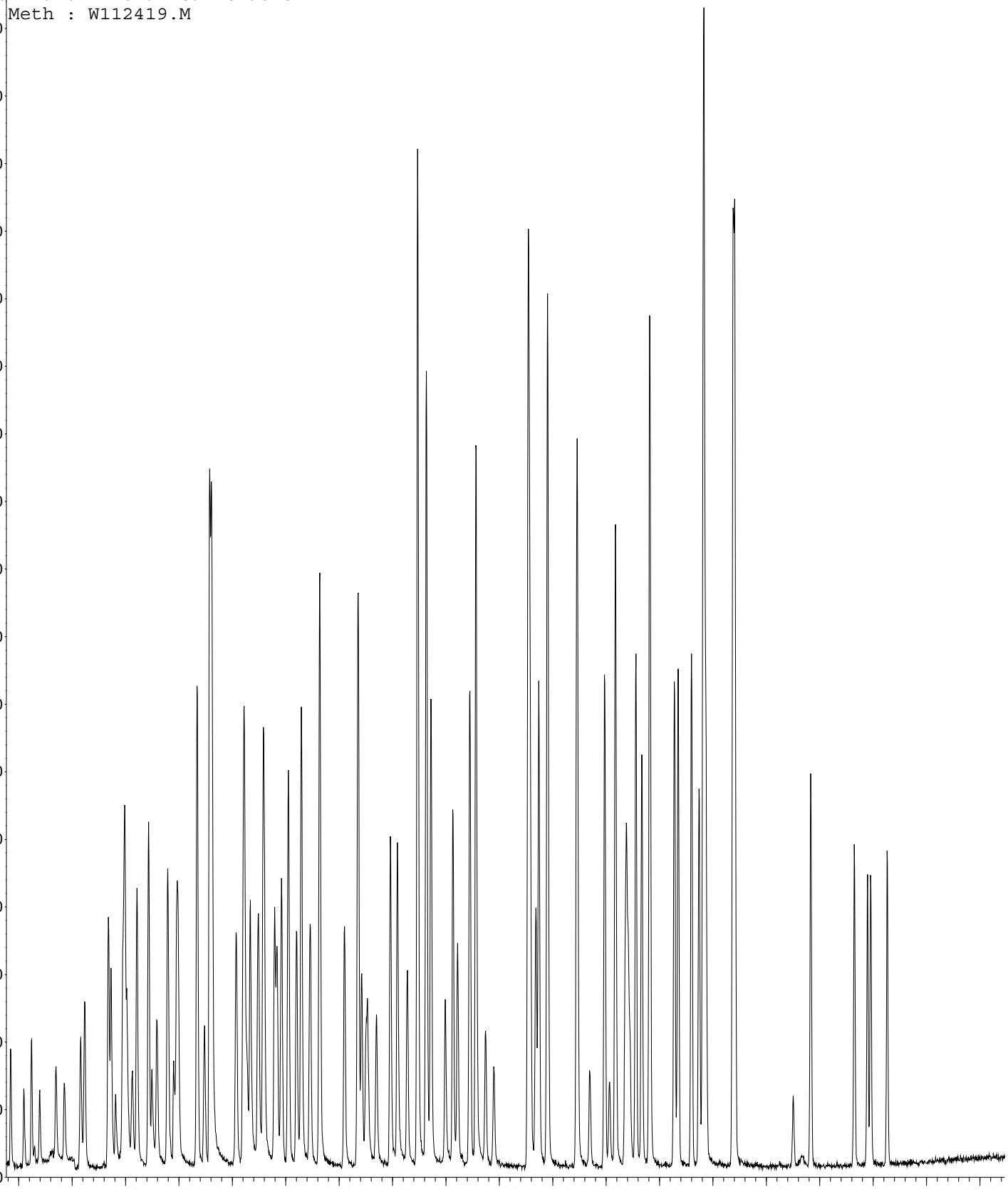
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL5.D

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL5.D Vial: 9
Acq On : 25 Nov 2019 1:51 Operator: RLD-DGS
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 10.0/100.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:57:59 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:57:52 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL6.D Vial: 10
Acq On : 25 Nov 2019 2:20 Operator: RLD-DGS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:15 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:09 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1028073	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	863201	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	508664	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	276448	20.067	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100 %			
45) SURR12DCAd4	7.21	102	71226	19.547	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 98 %			
61) SURRd8Tolule	9.63	98	1037179	20.071	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100 %			
83) SURR4BrFBenz	13.17	95	415880	20.055	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	324652	19.9465	ug/L	99
3) Chloromethan	2.09	50	267895	18.5167	ug/L	94
4) VinylChlorid	2.24	62	374489	19.6661	ug/L	99
5) Bromomethane	2.69	94	222384	17.4951	ug/L	97
6) Chloroethane	2.85	64	268832	17.7017	ug/L	100
7) Dichloroflmethane	3.16	67	473779	18.2133	ug/L	98
8) Trichlorofma	3.23	101	468825	20.6560	ug/L	97
9) Ethylether	3.68	59	200805	19.2739	ug/L	97
10) dichlorotfluoroethan	3.68	67	303046	19.9679	ug/L	98
11) propyleneoxide	3.73	58	505242	210.6238	ug/L	98
12) Acrolein	3.81	56	210887	109.6842	ug/L	94
13) 11dichlorthe	3.95	96	261552	21.0198	ug/L	97
14) Trichlorotfluoroeth	3.98	101	534186	42.8852	ug/L	100
15) Acetone	4.02	43	667729	200.3947	ug/L	100
16) Iodomethane	4.12	142	521535	67.0269	ug/L	99
17) Carbon Dislf	4.21	76	1323139	39.4507	ug/L	100
18) allylchloride	4.43	41	720086	41.2853	ug/L	98
19) methylacetate	4.49	74	120452	21.3631	ug/L	99
20) Methylchlorid	4.59	84	275462	16.8268	ug/L	99
21) tbutylalcohol	4.79	59	1209142	1057.1803	ug/L	100
22) Acrylonitrile	4.90	53	401220	138.9785	ug/L	95
23) t12dichlorte	4.96	96	292834	20.5031	ug/L	98
24) MtBE	4.99	73	744226	19.1860	ug/L	100
25) Hexane	5.34	57	757641	45.7058	ug/L	96
26) 11dichlorota	5.48	63	445022	18.3479	ug/L	98
27) Vinylacetate	5.57	43	3504345	206.3905	ug/L	95
28) chloroprene	5.61	53	782703	42.9235	ug/L	100
29) Diisopether	5.63	45	724472	20.1458	ug/L	97
30) ETBE	6.08	59	690147	20.4460	ug/L	98
31) 22dichloropr	6.21	77	420011	19.4986	ug/L	98
32) c12dichlorte	6.21	96	310595	18.9448	ug/L	96
33) 2Butanone	6.23	72	367904	234.6925	ug/L	99
34) propionitrile	6.27	54	346073	264.4403	ug/L	99
35) Ethylacetate	6.33	88	62433	109.8398	ug/L	93
36) methacrylonitrile	6.47	67	256444	47.2931	ug/L	97
37) Bromochlorma	6.50	128	142502	18.4064	ug/L	96
38) Tetrahydofur	6.57	42	718385	194.7855	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL6.D Vial: 10
Acq On : 25 Nov 2019 2:20 Operator: RLD-DGS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:15 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:09 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	497836	19.4051	ug/L	99
40)	111trichlota	6.84	97	469513	20.7566	ug/L	98
42)	Cyclohexane	6.92	56	420917	23.1491	ug/L	99
43)	Carbtetraclo	7.06	119	407523	22.0377	ug/L	99
44)	11dicloprope	7.04	110	148274	21.7537	ug/L	95
46)	Benzene	7.29	78	1079139	18.7782	ug/L	99
47)	12dichlorota	7.29	62	365951	19.0139	ug/L	97
48)	TAME	7.46	73	723875	21.0591	ug/L	98
49)	trichloroete	8.10	95	296986	19.9476	ug/L	99
50)	methylcyclohexane	8.36	83	594576	23.2696	ug/L	98
51)	12dicloropra	8.35	63	267434	18.9447	ug/L	96
52)	23Dicl1propene	8.42	75	418238	21.1282	ug/L	97
53)	Dibromometha	8.50	93	174771	18.6054	ug/L	99
54)	methylmethacrylate	8.53	69	206741	24.3750	ug/L	98
55)	14dioxane	8.55	88	125278	1339.9053	ug/L	98
56)	Bromodiclrma	8.70	83	367660	20.2106	ug/L	98
57)	2Nitropropane	8.96	43	860296	236.9375	ug/L	98
58)	2CLEVE	9.09	63	559450	125.5465	ug/L	100
59)	c13dicloproe	9.28	75	447439	21.6236	ug/L	99
60)	4Meth2Pentan	9.47	43	2112091	187.4459	ug/L	96
62)	Toluene	9.72	92	763937	18.6762	ug/L	97
63)	t13Dicloprop	9.99	75	379291	21.1210	ug/L	98
64)	ethylmethacrylate	10.13	69	756933	45.0168	ug/L	99
65)	112Triclotha	10.22	83	205237	19.3107	ug/L	97
66)	Tetrachlorte	10.45	166	350489	20.3367	ug/L	99
67)	13Diclorpropa	10.44	76	444378	19.0179	ug/L	97
69)	2Hexanone	10.56	43	1627405	205.2551	ug/L	97
70)	Clorodibrmta	10.74	129	280838	21.2304	ug/L	97
71)	12Dibrometha	10.90	107	265633	20.4650	ug/L	100
72)	Chlorobenzen	11.58	112	795475	18.3789	ug/L	98
73)	1Clhexane	11.56	91	418524	22.1022	ug/L	97
74)	1112Tetclota	11.68	131	290916	20.4069	ug/L	98
75)	Ethylbenzene	11.74	91	1300977	19.9233	ug/L	97
76)	m p-Xylene	11.90	106	1037093	40.8923	ug/L	93
77)	o-Xylene	12.45	106	508769	21.6307	ug/L	94
78)	Styrene	12.46	104	826222	22.6401	ug/L	96
79)	Bromoform	12.69	173	188312	21.6493	ug/L	98
80)	Isopropylben	12.97	105	1260126	21.5428	ug/L	98
81)	cyclohexanone	13.06	55	149594	462.9386	ug/L	96
84)	Bromobenzene	13.38	156	354887	19.2797	ug/L	98
85)	1122Tetrclta	13.36	83	363394	18.5402	ug/L	100
86)	123Triclproa	13.42	75	444950	20.4308	ug/L	98
87)	14dichloro2butene	13.45	53	87000	21.6998	ug/L	95
88)	n-Propylbenz	13.56	91	1476615	20.1875	ug/L	99
89)	2chlorotolue	13.67	91	895507	19.6969	ug/L	98
90)	4chlorotolue	13.82	91	1043282	20.0394	ug/L	99
91)	135Trimebenz	13.81	105	1044990	21.0363	ug/L	97
92)	tbutylbenzen	14.28	119	933865	21.3198	ug/L	99
93)	124Trimetben	14.35	105	1066373	21.5802	ug/L	95
94)	sbutylbenzen	14.60	105	1324028	21.8131	ug/L	99
95)	13Diclorbenz	14.74	146	665004	19.4511	ug/L	99
96)	pIsopropylto	14.81	119	1154406	22.0371	ug/L	96
97)	14dichlorobe	14.87	146	676314	18.2427	ug/L	99
98)	12dichlorobe	15.41	146	629894	18.4980	ug/L	99
99)	nButylbenzen	15.41	91	1046414	20.8942	ug/L	97
100)	12dibromo3cl	16.50	157	77820	20.1990	ug/L	98
101)	135Trichlorobenzene	16.83	180	475552	19.9799	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL6.D Vial: 10
Acq On : 25 Nov 2019 2:20 Operator: RLD-DGS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:15 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:09 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	389675	20.6661	ug/L	98
103)	Hexachlorobu	17.90	225	187879	20.4047	ug/L	96
104)	Naphthalene	17.95	128	885778	22.7654	ug/L	98
105)	123Trichlben	18.27	180	357605	20.7987	ug/L	95

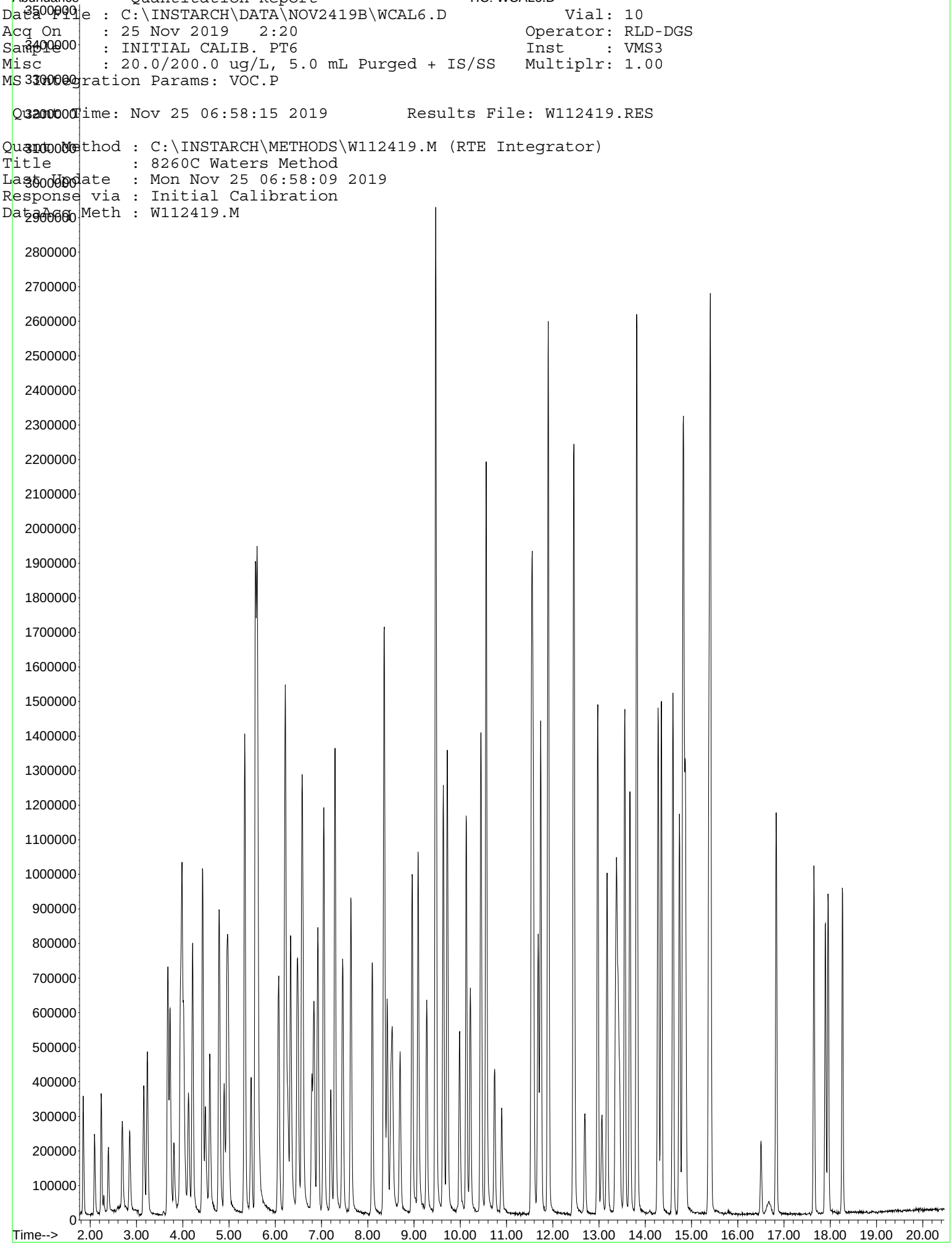
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL6.D

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL6.D Vial: 10
Acq On : 25 Nov 2019 2:20 Operator: RLD-DGS
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 20.0/200.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS 3 Integration Params: VOC.P

Quant Time: Nov 25 06:58:15 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:09 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL7.D Vial: 11
Acq On : 25 Nov 2019 2:52 Operator: RLD-DGS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:31 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:23 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1054924	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	903049	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	540420	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	292883	20.707	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 104 %			
45) SURR12DCAd4	7.20	102	72486	19.460	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 97 %			
61) SURRd8Tolule	9.63	98	1087529	20.498	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 102 %			
83) SURR4BrFBenz	13.18	95	440666	19.992	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	486909	29.1671	ug/L	97
3) Chloromethan	2.10	50	408376	27.8525	ug/L	97
4) VinylChlorid	2.24	62	568020	29.1511	ug/L	98
5) Bromomethane	2.69	94	339912	26.7300	ug/L	94
6) Chloroethane	2.85	64	406602	26.7058	ug/L	98
7) Dichloroflmethane	3.16	67	716906	27.2642	ug/L	98
8) Trichlorofma	3.23	101	713121	30.4533	ug/L	98
9) Ethylether	3.67	59	322732	30.3722	ug/L	99
10) dichlorotfluoroethan	3.68	67	458547	29.4528	ug/L	98
11) propyleneoxide	3.73	58	774070	311.1727	ug/L	99
12) Acrolein	3.81	56	362617	180.3075	ug/L	95
13) 11dichlorthe	3.95	96	407412	31.6396	ug/L	96
14) Trichlorotfluoroeth	3.99	101	809075	62.5485	ug/L	99
15) Acetone	4.03	43	1018060	297.6592	ug/L	98
16) Iodomethane	4.12	142	869215	95.9066	ug/L	98
17) Carbon Dislf	4.21	76	1958950	57.0520	ug/L	98
18) allylchloride	4.43	41	1096090	60.9172	ug/L	98
19) methylacetate	4.49	74	187083	31.9012	ug/L	95
20) Methylchlorid	4.59	84	415691	25.4187	ug/L	98
21) tbutylalcohol	4.79	59	1788462	1509.5066	ug/L	99
22) Acrylonitrile	4.90	53	633841	198.4937	ug/L	96
23) t12dichlorte	4.96	96	449961	30.5745	ug/L	99
24) MtBE	4.99	73	1140655	28.8531	ug/L	99
25) Hexane	5.34	57	1145906	65.8045	ug/L	96
26) 11dichlorota	5.48	63	685249	27.9175	ug/L	97
27) Vinylacetate	5.57	43	4852241	277.0265	ug/L	90
28) chloroprene	5.61	53	1197614	63.2353	ug/L	99
29) Diisopether	5.62	45	1105343	29.9182	ug/L	97
30) ETBE	6.07	59	1048226	30.1518	ug/L	95
31) 22dichloropr	6.20	77	656070	29.8067	ug/L	99
32) c12dichlorte	6.21	96	490492	29.4148	ug/L	94
33) 2Butanone	6.23	72	548552	329.5899	ug/L	99
34) propionitrile	6.27	54	530151	370.8864	ug/L	96
35) Ethylacetate	6.33	88	102247	171.9234	ug/L	94
36) methacrylonitrile	6.47	67	393711	68.2701	ug/L	95
37) Bromochlorma	6.49	128	224022	28.5790	ug/L	100
38) Tetrahydofur	6.57	42	1067147	283.2159	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL7.D Vial: 11
Acq On : 25 Nov 2019 2:52 Operator: RLD-DGS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:31 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:23 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.60	83	755143	28.8283 ug/L	99
40)	111trichlota	6.84	97	719390	30.7997 ug/L	98
42)	Cyclohexane	6.92	56	643257	33.5951 ug/L	99
43)	Carbtetraclo	7.06	119	624662	32.3704 ug/L	99
44)	11dicloprope	7.05	110	229440	32.2396 ug/L	97
46)	Benzene	7.29	78	1610949	27.5997 ug/L	99
47)	12dichlorota	7.30	62	566232	28.9088 ug/L	98
48)	TAME	7.46	73	1124080	31.5908 ug/L	97
49)	trichloroete	8.10	95	461063	30.1930 ug/L	98
50)	methylcyclohexane	8.36	83	909773	33.7787 ug/L	99
51)	12dicloropra	8.35	63	424443	29.5617 ug/L	98
52)	23Dicl1propene	8.42	75	652007	31.7411 ug/L	98
53)	Dibromometha	8.50	93	273065	28.7301 ug/L	99
54)	methylmethacrylate	8.53	69	326180	35.9073 ug/L	95
55)	14dioxane	8.54	88	185701	1812.3946 ug/L	98
56)	Bromodiclrma	8.70	83	570861	30.5284 ug/L	98
57)	2Nitropropane	8.96	43	1314039	342.1609 ug/L	99
58)	2CLEVE	9.09	63	878867	182.8640 ug/L	98
59)	c13dicloproe	9.28	75	686585	31.9047 ug/L	99
60)	4Meth2Pentan	9.47	43	2978674	260.3493 ug/L	91
62)	Toluene	9.72	92	1147178	27.6364 ug/L	96
63)	t13Dicloprop	9.99	75	608877	32.7368 ug/L	97
64)	ethylmethacrylate	10.13	69	1169222	66.1085 ug/L	97
65)	112Triclotha	10.22	83	326132	30.1122 ug/L	97
66)	Tetrachlorte	10.45	166	552862	31.1751 ug/L	100
67)	13Diclorpropa	10.44	76	678370	28.5265 ug/L	99
69)	2Hexanone	10.56	43	2353780	282.2854 ug/L	95
70)	Clorodibrmta	10.74	129	444673	31.8063 ug/L	99
71)	12Dibrometha	10.89	107	413799	30.3556 ug/L	99
72)	Chlorobenzen	11.58	112	1209784	27.0837 ug/L	97
73)	1Clhexane	11.56	91	650907	32.2918 ug/L	96
74)	1112Tetclota	11.68	131	472374	31.5452 ug/L	97
75)	Ethylbenzene	11.74	91	1919809	28.1208 ug/L	94
76)	m p-Xylene	11.90	106	1545810	58.0456 ug/L	90
77)	o-Xylene	12.45	106	793517	31.8160 ug/L	90
78)	Styrene	12.46	104	1271743	32.5935 ug/L	95
79)	Bromoform	12.69	173	301126	32.5545 ug/L	99
80)	Isopropylben	12.97	105	1870420	30.1773 ug/L	95
81)	cyclohexanone	13.06	55	234215	671.6890 ug/L	96
84)	Bromobenzene	13.38	156	551964	28.3946 ug/L	99
85)	1122Tetrclta	13.36	83	547410	26.6112 ug/L	97
86)	123Triclproa	13.42	75	688056	29.6094 ug/L	98
87)	14dichloro2butene	13.44	53	144214	33.2907 ug/L	97
88)	n-Propylbenz	13.56	91	2162503	27.7840 ug/L	94
89)	2chlorotolue	13.67	91	1359620	28.2192 ug/L	95
90)	4chlorotolue	13.82	91	1573908	28.4458 ug/L	98
91)	135Trimebenz	13.81	105	1592866	29.9228 ug/L	97
92)	tbutylbenzen	14.28	119	1432268	30.4420 ug/L	99
93)	124Trimetben	14.35	105	1601843	30.1151 ug/L	94
94)	sbutylbenzen	14.60	105	1956031	29.8802 ug/L	95
95)	13Diclorbenz	14.74	146	1014322	28.0534 ug/L	99
96)	pIsopropylto	14.81	119	1734771	30.6498 ug/L	94
97)	14dichlorobe	14.87	146	1034784	26.6622 ug/L	98
98)	12dichlorobe	15.41	146	969231	27.1303 ug/L	97
99)	nButylbenzen	15.41	91	1586932	29.6044 ug/L	96
100)	12dibromo3cl	16.50	157	126981	30.9609 ug/L	99
101)	135Trichlorobenzene	16.83	180	738580	29.2123 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL7.D Vial: 11
Acq On : 25 Nov 2019 2:52 Operator: RLD-DGS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:31 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:23 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	608462	30.2054	ug/L	99
103)	Hexachlorobu	17.90	225	284882	29.0238	ug/L	98
104)	Naphthalene	17.96	128	1354014	32.0169	ug/L	97
105)	123Trichlben	18.27	180	564049	30.6738	ug/L	97

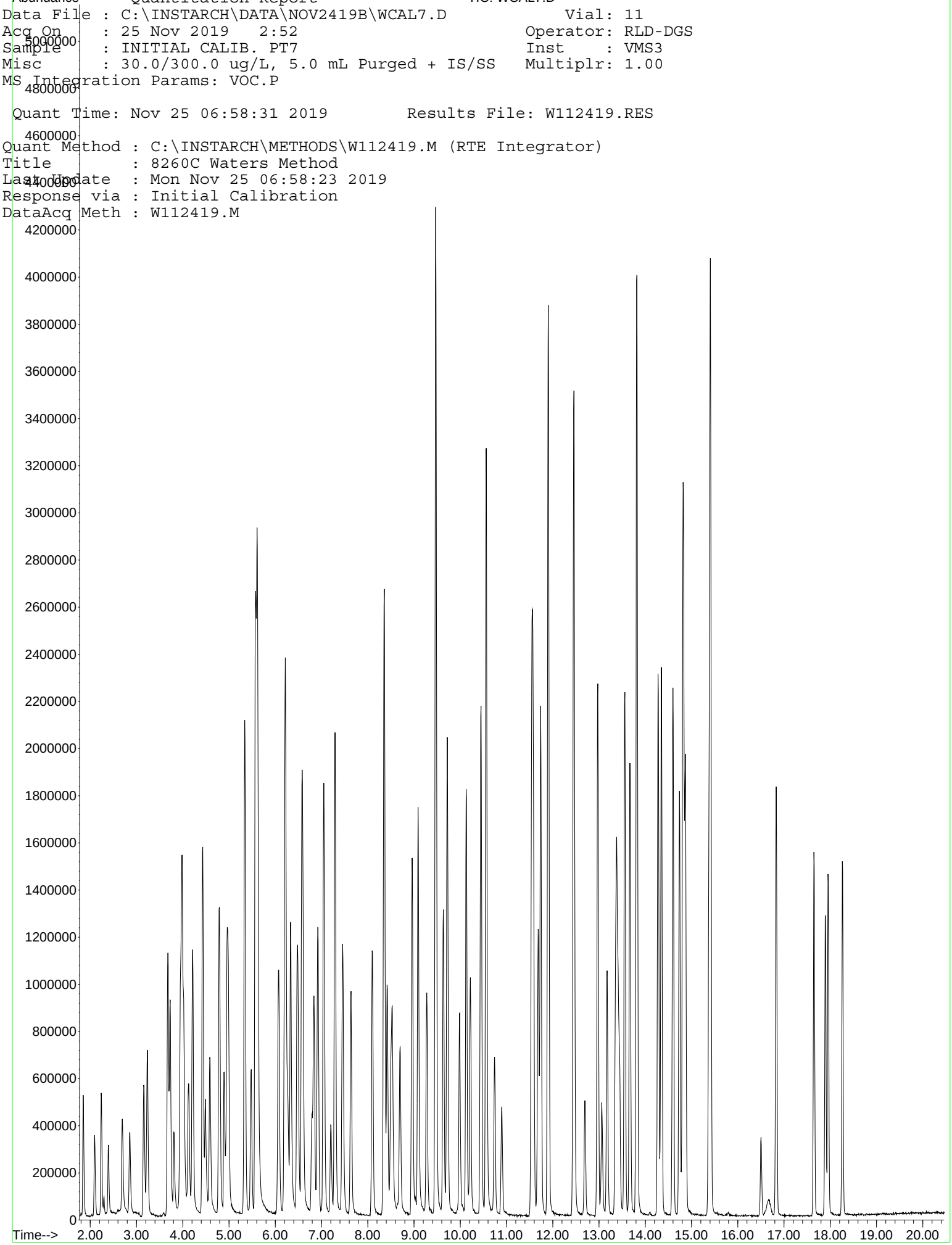
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL7.D

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL7.D Vial: 11
Acq On : 25 Nov 2019 2:52 Operator: RLD-DGS
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 30.0/300.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:31 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:23 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL8.D Vial: 12
Acq On : 25 Nov 2019 3:22 Operator: RLD-DGS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:46 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:38 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1043521	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	881193	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	540105	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	278317	19.792	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.21	102	72384	19.721	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 99 %			
61) SURRd8Tolule	9.63	98	1058356	20.094	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100 %			
83) SURR4BrFBenz	13.18	95	439617	19.957	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	708993	43.1055	ug/L	97
3) Chloromethan	2.10	50	544984	37.9640	ug/L	96
4) VinylChlorid	2.24	62	729140	37.9823	ug/L	98
5) Bromomethane	2.69	94	477702	38.6787	ug/L	97
6) Chloroethane	2.86	64	526290	35.5961	ug/L	99
7) Dichloroflmethane	3.16	67	946011	36.8504	ug/L	98
8) Trichlorofma	3.23	101	925720	39.8781	ug/L	97
9) Ethylether	3.67	59	423019	40.1740	ug/L	99
10) dichlorotfluoroethan	3.68	67	599694	39.0414	ug/L	98
11) propyleneoxide	3.73	58	1055583	426.3304	ug/L	99
12) Acrolein	3.81	56	489642	238.1115	ug/L	95
13) 11dichlorthe	3.95	96	543778	42.3605	ug/L	95
14) Trichlorotfluoroeth	3.98	101	1059043	82.2687	ug/L	99
15) Acetone	4.02	43	1375386	406.9817	ug/L	96
16) Iodomethane	4.12	142	1169382	118.6062	ug/L	98
17) Carbon Dislf	4.21	76	2522378	74.7888	ug/L	96
18) allylchloride	4.43	41	1452397	81.4239	ug/L	97
19) methylacetate	4.49	74	255749	43.6259	ug/L	95
20) Methylchlorid	4.59	84	563344	35.6004	ug/L	99
21) tbutylalcohol	4.79	59	2319064	1976.9468	ug/L	99
22) Acrylonitrile	4.89	53	860359	258.4486	ug/L	96
23) t12dichlorte	4.96	96	598362	40.9904	ug/L	98
24) MtBE	4.98	73	1519854	39.0785	ug/L	98
25) Hexane	5.34	57	1472590	84.3233	ug/L	94
26) 11dichlorota	5.47	63	900186	37.4463	ug/L	96
27) Vinylacetate	5.57	43	5816913	339.4445	ug/L	85
28) chloroprene	5.61	53	1581519	83.7730	ug/L	99
29) Diisopether	5.62	45	1475447	40.3879	ug/L	96
30) ETBE	6.07	59	1408907	40.9399	ug/L	96
31) 22dichloropr	6.20	77	858168	39.4508	ug/L	99
32) c12dichlorte	6.21	96	652153	39.6475	ug/L	96
33) 2Butanone	6.22	72	747829	446.8864	ug/L	98
34) propionitrile	6.27	54	709567	482.8140	ug/L	100
35) Ethylacetate	6.33	88	132218	219.4031	ug/L #	91
36) methacrylonitrile	6.47	67	541501	92.7915	ug/L	98
37) Bromochlorma	6.49	128	298973	38.8202	ug/L	98
38) Tetrahydofur	6.57	42	1402628	379.3507	ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL8.D Vial: 12
Acq On : 25 Nov 2019 3:22 Operator: RLD-DGS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:46 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:38 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.60	83	997874	38.7272	ug/L		98
40)	111trichlota	6.84	97	964204	41.5739	ug/L		99
42)	Cyclohexane	6.92	56	861741	44.7317	ug/L		99
43)	Carbtetraclo	7.06	119	824329	42.7021	ug/L		99
44)	11dicloprope	7.05	110	308061	43.2222	ug/L		93
46)	Benzene	7.29	78	2065986	36.1962	ug/L		96
47)	12dichlorota	7.29	62	751104	38.9689	ug/L		98
48)	TAME	7.46	73	1502099	42.3550	ug/L		97
49)	trichloroete	8.10	95	614996	40.6761	ug/L		98
50)	methylcyclohexane	8.36	83	1176508	43.3790	ug/L		99
51)	12dicloropra	8.36	63	560449	39.5433	ug/L		98
52)	23Dicl1propene	8.42	75	865762	42.1995	ug/L		99
53)	Dibromometha	8.50	93	368215	39.4428	ug/L		99
54)	methylmethacrylate	8.53	69	435262	46.8999	ug/L		94
55)	14dioxane	8.54	88	247744	2362.3421	ug/L		99
56)	Bromodiclrma	8.70	83	769607	41.5022	ug/L		99
57)	2Nitropropane	8.96	43	1760843	454.3912	ug/L		97
58)	2CLEVE	9.09	63	1173367	238.1130	ug/L		96
59)	c13dicloproe	9.28	75	922027	42.9242	ug/L		99
60)	4Meth2Pentan	9.47	43	3702058	333.4073	ug/L		87
62)	Toluene	9.72	92	1502900	37.0183	ug/L		93
63)	t13Dicloprop	9.98	75	822884	44.1511	ug/L		97
64)	ethylmethacrylate	10.13	69	1531638	86.0853	ug/L		95
65)	112Triclotha	10.22	83	427482	39.8764	ug/L		96
66)	Tetrachlorte	10.45	166	728207	41.2803	ug/L		99
67)	13Diclorpropa	10.44	76	905174	38.7518	ug/L		98
69)	2Hexanone	10.56	43	3000666	372.4567	ug/L		92
70)	Clorodibrmta	10.74	129	602659	43.7990	ug/L		99
71)	12Dibrometha	10.89	107	555840	41.7162	ug/L		100
72)	Chlorobenzen	11.58	112	1577779	36.7080	ug/L		96
73)	1Clhexane	11.56	91	865600	43.5329	ug/L		96
74)	1112Tetclota	11.68	131	614311	41.6834	ug/L		99
75)	Ethylbenzene	11.74	91	2473989	37.4724	ug/L		92
76)	m p-Xylene	11.90	106	2005190	77.5237	ug/L	#	86
77)	o-Xylene	12.45	106	1057628	43.0847	ug/L	#	86
78)	Styrene	12.46	104	1681084	43.6145	ug/L		94
79)	Bromoform	12.69	173	413176	45.1355	ug/L		97
80)	Isopropylben	12.97	105	2425655	40.0723	ug/L		92
81)	cyclohexanone	13.06	55	312016	899.0985	ug/L		96
84)	Bromobenzene	13.38	156	750109	38.9077	ug/L		97
85)	1122Tetrclta	13.36	83	722044	35.6972	ug/L		95
86)	123Triclproa	13.42	75	942899	40.6882	ug/L		97
87)	14dichloro2butene	13.45	53	197761	44.8582	ug/L		92
88)	n-Propylbenz	13.56	91	2749985	35.7296	ug/L		92
89)	2chlorotolue	13.67	91	1757848	36.8180	ug/L		93
90)	4chlorotolue	13.82	91	2048558	37.3222	ug/L		94
91)	135Trimebenz	13.81	105	2085502	39.2145	ug/L		95
92)	tbutylbenzen	14.28	119	1880010	39.8978	ug/L		97
93)	124Trimetben	14.35	105	2071892	38.9535	ug/L		91
94)	sbutylbenzen	14.60	105	2527126	38.6487	ug/L		93
95)	13Diclorbenz	14.74	146	1337836	37.3689	ug/L		98
96)	pIsopropylto	14.81	119	2256135	39.7614	ug/L		92
97)	14dichlorobe	14.87	146	1363268	35.7141	ug/L		97
98)	12dichlorobe	15.40	146	1277672	36.2807	ug/L		97
99)	nButylbenzen	15.41	91	2058316	38.4930	ug/L		94
100)	12dibromo3cl	16.50	157	172853	41.9463	ug/L		99
101)	135Trichlorobenzene	16.83	180	996772	39.5958	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL8.D Vial: 12
Acq On : 25 Nov 2019 3:22 Operator: RLD-DGS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:46 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:38 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	824303	40.9041	ug/L	100
103)	Hexachlorobu	17.90	225	383045	39.2298	ug/L	97
104)	Naphthalene	17.96	128	1808056	42.3711	ug/L	95
105)	123Trichlben	18.27	180	752264	40.8022	ug/L	96

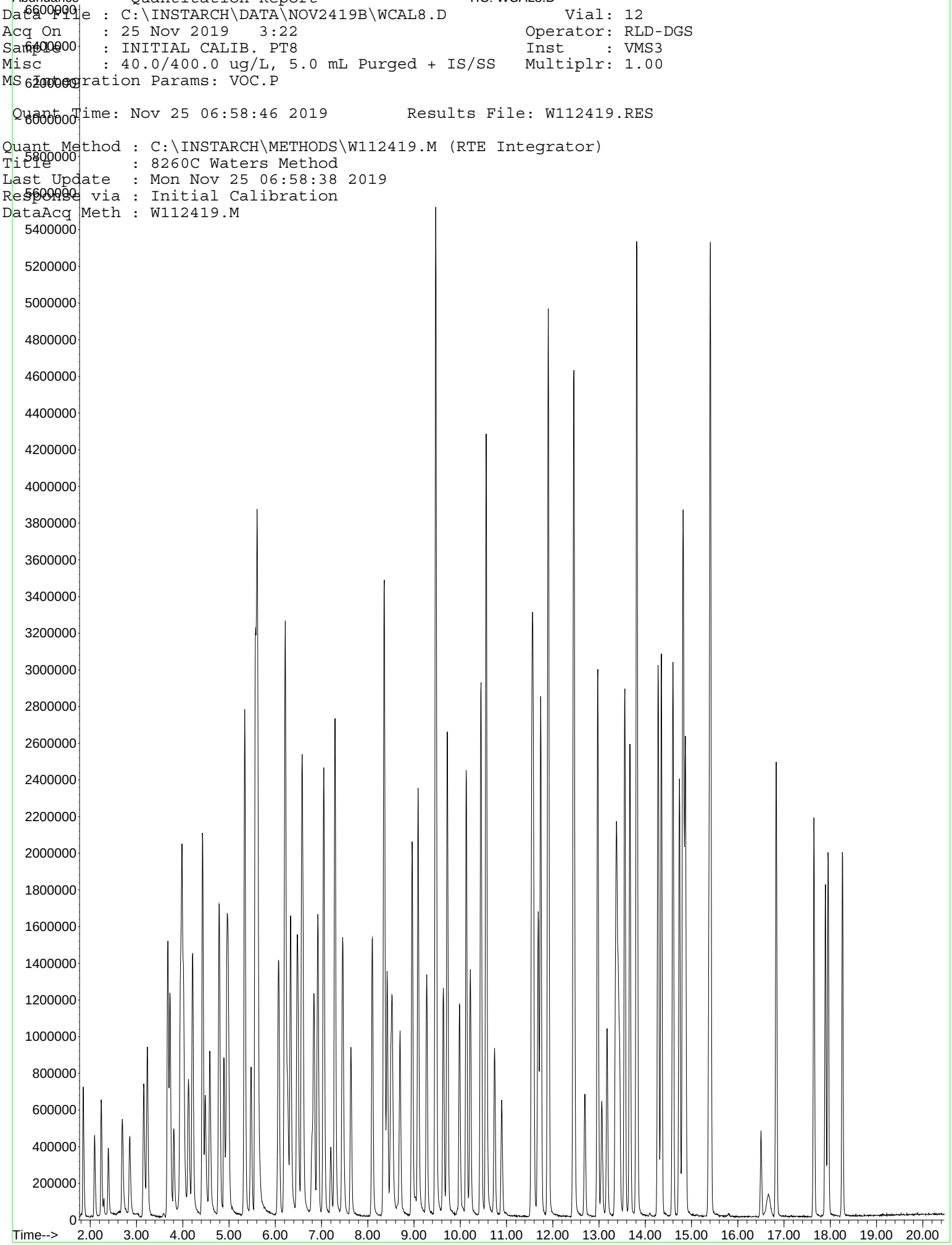
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL8.D

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL8.D Vial: 12
Acq On : 25 Nov 2019 3:22 Operator: RLD-DGS
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 40.0/400.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:58:46 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:38 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL9.D Vial: 13
Acq On : 25 Nov 2019 3:51 Operator: RLD-DGS
Sample : INITIAL CALIB. PT9 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:59:01 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:53 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1145426	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	965346	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	582583	20.00 ug/L	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.79	113	311606	20.214 ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 101 %		
45) SURR12DCAd4	7.20	102	77768	19.336 ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 97 %		
61) SURRd8Tolule	9.63	98	1158475	20.027 ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100 %		
83) SURR4BrFBenz	13.18	95	481175	20.256 ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101 %		

Target Compounds					Qvalue
2) Dichlorodi	1.85	85	1351126	74.1185 ug/L	94
3) Chloromethan	2.10	50	1071400	68.4299 ug/L	94
4) VinylChlorid	2.24	62	1397773	66.7557 ug/L	95
5) Bromomethane	2.69	94	981796	72.7653 ug/L	94
6) Chloroethane	2.85	64	1048742	65.6546 ug/L	98
7) Dichloroflmethane	3.16	67	1828063	65.5190 ug/L	95
8) Trichlorofma	3.23	101	1829544	71.8285 ug/L	95
9) Ethylether	3.67	59	898774	77.7202 ug/L	100
10) dichlorotfluoroethan	3.68	67	1213850	72.2101 ug/L	98
11) propyleneoxide	3.73	58	2140222	780.1569 ug/L	99
12) Acrolein	3.81	56	1062871	458.4077 ug/L	95
13) 11dichlorthe	3.95	96	1106171	77.9299 ug/L	95
14) Trichlorotfluoroeth	3.98	101	2101475	148.1981 ug/L	97
15) Acetone	4.02	43	2693118	724.4248 ug/L	91
16) Iodomethane	4.13	142	2453694	212.1057 ug/L	95
17) Carbon Dislf	4.21	76	4363913	118.8468 ug/L	90
18) allylchloride	4.43	41	2755337	140.4139 ug/L	96
19) methylacetate	4.48	74	570639	87.5463 ug/L	96
20) Methylchlorid	4.59	84	1127688	65.8290 ug/L	99
21) tbutylalcohol	4.79	59	4354009	3386.3506 ug/L	95
22) Acrylonitrile	4.89	53	1810663	475.6672 ug/L	93
23) t12dichlorte	4.96	96	1211247	75.3604 ug/L	99
24) MtBE	4.99	73	2929530	68.8209 ug/L	94
25) Hexane	5.34	57	2840211	147.1725 ug/L	90
26) 11dichlorota	5.48	63	1795850	68.6058 ug/L	93
27) Vinylacetate	5.57	43	8670334	469.8328 ug/L	69
28) chloroprene	5.61	53	3015427	144.6639 ug/L	95
29) Diisopether	5.62	45	2863886	71.3332 ug/L	90
30) ETBE	6.07	59	2721858	71.8440 ug/L	92
31) 22dichloropr	6.21	77	1763257	73.9741 ug/L	96
32) c12dichlorte	6.21	96	1315842	72.9596 ug/L	95
33) 2Butanone	6.22	72	1568127	839.6497 ug/L	95
34) propionitrile	6.26	54	1549970	933.2226 ug/L	94
35) Ethylacetate	6.33	88	307838	459.0191 ug/L	94
36) methacrylonitrile	6.46	67	1144351	174.6601 ug/L	97
37) Bromochlorma	6.50	128	605113	71.8457 ug/L	99
38) Tetrahydofur	6.57	42	2765499	685.8318 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL9.D Vial: 13
Acq On : 25 Nov 2019 3:51 Operator: RLD-DGS
Sample : INITIAL CALIB. PT9 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:59:01 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:53 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.60	83	1957377	69.4832	ug/L		96
40)	111trichlota	6.84	97	1901204	74.3162	ug/L		95
42)	Cyclohexane	6.92	56	1708051	79.5975	ug/L		98
43)	Carbtetraclo	7.05	119	1697256	79.4289	ug/L		96
44)	11dicloprope	7.04	110	654479	82.7048	ug/L	#	88
46)	Benzene	7.29	78	3700686	59.7785	ug/L		90
47)	12dichlorota	7.29	62	1505265	71.3784	ug/L		95
48)	TAME	7.46	73	2899149	73.9309	ug/L		94
49)	trichloroete	8.10	95	1240876	74.6128	ug/L		98
50)	methylcyclohexane	8.36	83	2358661	78.4011	ug/L		96
51)	12dicloropra	8.36	63	1164223	74.9424	ug/L		95
52)	23Dicl1propene	8.42	75	1759025	77.5026	ug/L		97
53)	Dibromometha	8.50	93	769538	75.2481	ug/L		98
54)	methylmethacrylate	8.53	69	962034	92.1665	ug/L		94
55)	14dioxane	8.54	88	536918	4546.5767	ug/L		98
56)	Bromodiclrma	8.70	83	1536439	75.1307	ug/L		96
57)	2Nitropropane	8.97	43	3384370	782.3508	ug/L		97
58)	2CLEVE	9.09	63	2360356	424.8112	ug/L		91
59)	c13dicloproe	9.28	75	1835195	77.1302	ug/L		95
60)	4Meth2Pentan	9.47	43	5882423	492.8961	ug/L		71
62)	Toluene	9.72	92	2819937	63.8742	ug/L	#	84
63)	t13Dicloprop	9.98	75	1676463	80.8972	ug/L		96
64)	ethylmethacrylate	10.13	69	2964385	150.1578	ug/L		91
65)	112Triclotha	10.22	83	897486	76.3048	ug/L		98
66)	Tetrachlorte	10.45	166	1480545	76.1569	ug/L		97
67)	13Diclorpropa	10.44	76	1795160	70.2901	ug/L		93
69)	2Hexanone	10.56	43	4993685	571.4267	ug/L		81
70)	Clorodibrmta	10.74	129	1253639	82.1917	ug/L		98
71)	12Dibrometha	10.89	107	1150245	78.3810	ug/L		100
72)	Chlorobenzen	11.58	112	2956167	63.4340	ug/L		92
73)	1Clhexane	11.56	91	1743872	79.1834	ug/L		95
74)	1112Tetclota	11.68	131	1282981	78.9915	ug/L		99
75)	Ethylbenzene	11.74	91	4244655	59.1546	ug/L		81
76)	m p-Xylene	11.90	106	3612924	127.9998	ug/L	#	72
77)	o-Xylene	12.45	106	2060475	75.8891	ug/L	#	77
78)	Styrene	12.46	104	3153398	73.8465	ug/L		88
79)	Bromoform	12.69	173	915196	89.6173	ug/L		98
80)	Isopropylben	12.97	105	4161895	62.7474	ug/L		81
81)	cyclohexanone	13.06	55	693690	1792.9400	ug/L		94
84)	Bromobenzene	13.38	156	1506523	72.6930	ug/L		96
85)	1122Tetrclta	13.36	83	1491398	69.2889	ug/L		96
86)	123Triclproa	13.42	75	1987973	79.3355	ug/L		98
87)	14dichloro2butene	13.44	53	447487	92.4978	ug/L		92
88)	n-Propylbenz	13.56	91	4567850	55.7654	ug/L		80
89)	2chlorotolue	13.67	91	3199218	62.7456	ug/L		86
90)	4chlorotolue	13.82	91	3658801	62.3200	ug/L		85
91)	135Trimebenz	13.81	105	3702134	64.6957	ug/L		88
92)	tbutylbenzen	14.28	119	3444146	67.7844	ug/L		91
93)	124Trimetben	14.35	105	3678893	64.3339	ug/L		83
94)	sbutylbenzen	14.60	105	4306452	61.3177	ug/L		82
95)	13Diclorbenz	14.74	146	2542788	66.3933	ug/L		94
96)	pIsopropylto	14.81	119	3938790	64.4026	ug/L		82
97)	14dichlorobe	14.87	146	2571724	63.3081	ug/L		93
98)	12dichlorobe	15.40	146	2425284	64.5977	ug/L		92
99)	nButylbenzen	15.41	91	3676868	64.0499	ug/L		86
100)	12dibromo3cl	16.50	157	388395	86.7765	ug/L		99
101)	135Trichlorobenzene	16.83	180	1925591	71.0047	ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL9.D Vial: 13
Acq On : 25 Nov 2019 3:51 Operator: RLD-DGS
Sample : INITIAL CALIB. PT9 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:59:01 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:53 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	1655872	75.9630	ug/L	99
103) Hexachlorobu	17.90	225	811997	77.2836	ug/L	96
104) Naphthalene	17.95	128	3349881	72.2440	ug/L	90
105) 123Trichlben	18.26	180	1535713	77.0293	ug/L	94

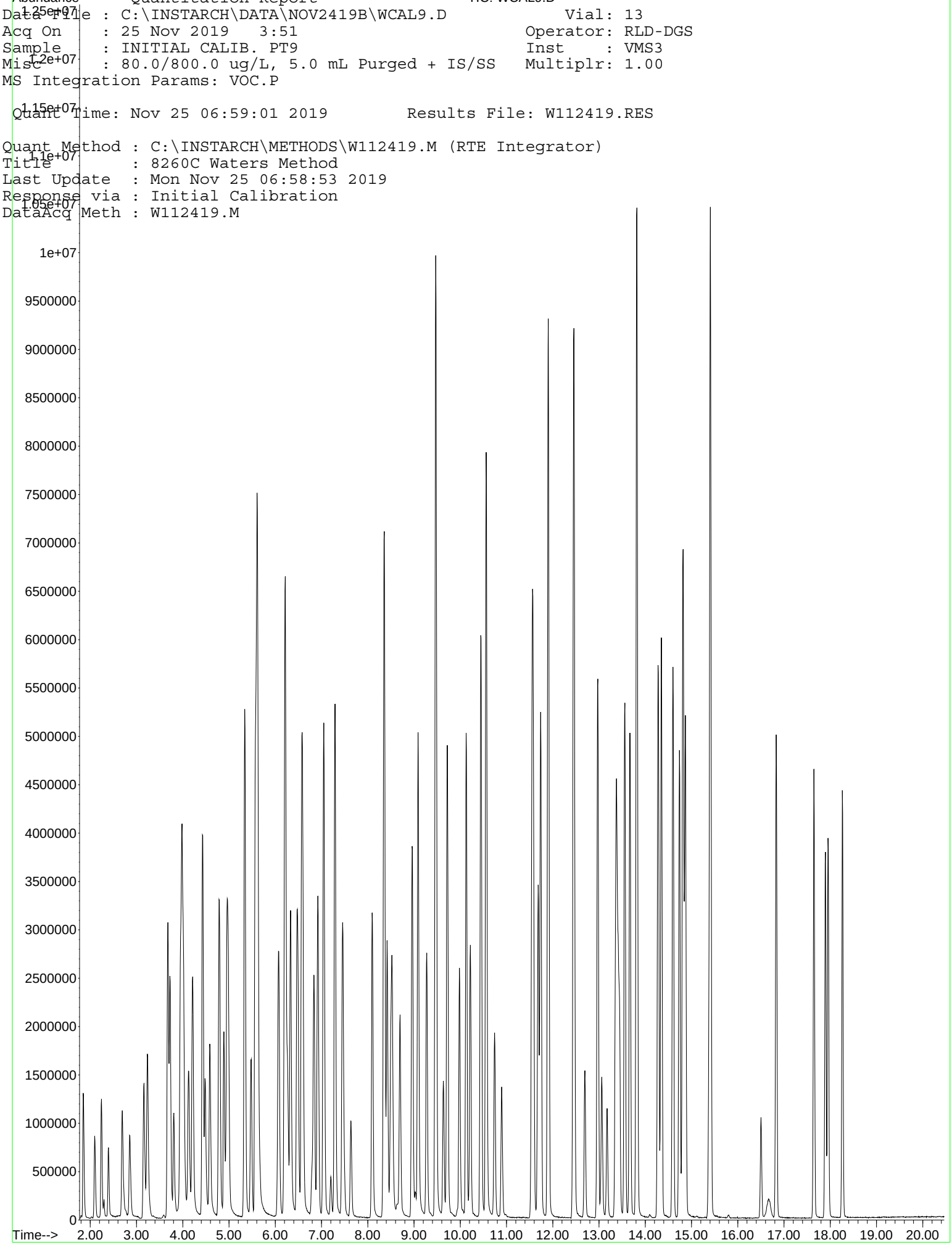
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: WCAL9.D

Data File : C:\INSTARCH\DATA\NOV2419B\WCAL9.D Vial: 13
Acq On : 25 Nov 2019 3:51 Operator: RLD-DGS
Sample : INITIAL CALIB. PT9 Inst : VMS3
Misc : 80.0/800.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 06:59:01 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 06:58:53 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV2419B\ICV1.D Vial: 15
Acq On : 25 Nov 2019 4:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 25 07:10:15 2019

Quant Method : C:\INSTARCH\METHODS\W112419.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W112419.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	104	0.00
2	PT	Dichlorodi	0.3157	0.3685	-16.72	114	0.00
3	PT	Chloromethan	0.2690	0.2928	-8.85	109	0.00
4	PT	VinylChlorid	0.3589	0.3758	-4.71	99	0.00
5	PT	Bromomethane	0.2329	0.2707	-16.23	119	0.00
6	PT	Chloroethane	0.2727	0.2782	-2.02	105	0.00
7	T	Dichloroflmethane	0.4774	0.5023	-5.22	106	0.00
8	PT	Trichlorofma	0.4397	0.4936	-12.26	103	0.00
9	T	Ethylether	0.2013	0.2137	-6.16	111	0.00
10	T	dichlorotfluoroethan	0.2903	0.3119	-7.44	105	0.00
11	T	propyleneoxide	0.0478	0.0537	-12.34	117	0.00
12	T	Acrolein	0.0432	0.0437	-1.16	101	0.00
13	PT	11dichlorthe	0.2471	0.2751	-11.33	108	0.00
14	PT	Trichlorotfluoroeth	0.2456	0.2750	-11.97	102	0.00
15	PT	Acetone	0.0642	0.0638#	0.62	104	0.00
16	T	Iodomethane	0.2134	0.2034	4.69	102	0.00
17	PT	Carbon Dislf	0.6228	0.7006	-12.49	106	0.00
18	T	allylchloride	0.3380	0.3802	-12.49	110	0.00
19	PT	methylacetate	0.1152	0.1165	-1.13	106	0.00
20	PT	Methylchlorid	0.2932	0.2904	0.95	108	0.00
21	T	tbutylalcohol	0.0221	0.0232#	-4.98	101	0.00
22	T	Acrylonitrile	0.0719	0.0716	0.42	100	0.00
23	PT	t12dichlorte	0.2788	0.2938	-5.38	104	0.00
24	PT	MtBE	0.7317	0.7705	-5.30	105	0.00
25	T	Hexane	0.3340	0.3989	-19.43	105	0.00
26	PT	11dichlorota	0.4498	0.4648	-3.33	105	0.00
27	T	Vinylacetate	0.3400	0.3920	-15.29	107	0.00
28	T	chloroprene	0.3601	0.4123	-14.50	107	0.00
29	T	Diisopether	0.6926	0.7446	-7.51	107	0.00
30	T	ETBE	0.6540	0.7227	-10.50	109	0.00
31	T	22dichloropr	0.4127	0.4299	-4.17	103	0.00
32	PT	c12dichlorte	0.3118	0.3121	-0.10	107	0.00
33	PT	2Butanone	0.0328	0.0354#	-7.93	106	0.00
34	T	propionitrile	0.0304	0.0317	-4.28	100	0.00
35	T	Ethylacetate	0.0119	0.0121#	-1.68	101	0.00
36	T	methacrylonitrile	0.1157	0.1313	-13.48	112	0.00
37	T	Bromochlorma	0.1454	0.1468	-0.96	106	0.00
38	T	Tetrahydofur	0.0693	0.0708	-2.16	102	0.00
39	PT	Chloroform	0.4847	0.4981	-2.76	103	-0.01
40	PT	111trichlota	0.4432	0.4780	-7.85	104	0.00
41	S	SURRDibrflma	0.2695	0.2642	1.97	103	0.00
42	PT	Cyclohexane	0.3745	0.4275	-14.15	106	0.00
43	PT	Carbtetraclo	0.3728	0.4133	-10.86	108	0.00
44	T	11dicloprope	0.1388	0.1494	-7.64	107	0.00
45	S	SURR12DCAd4	0.0700	0.0701	-0.14	104	0.00
46	PT	Benzene	1.0506	1.1457	-9.05	106	0.00
47	PT	12dichlorota	0.3638	0.3733	-2.61	105	0.00
48	T	TAME	0.6789	0.7704	-13.48	111	0.00

49	PT	trichloroete	0.2882	0.3099	-7.53	112	0.00
50	PT	methylcyclohexane	0.5241	0.5904	-12.65	105	0.00
51	PT	12dicloropra	0.2693	0.2712	-0.71	103	0.00
52	T	23Dicl1propene	0.3947	0.4150	-5.14	108	0.00
53	T	Dibromometha	0.1772	0.1838	-3.72	110	0.00
54	T	methylmethacrylate	0.1857	0.1979	-6.57	108	0.00
55	T	14dioxane	0.0021	0.0020#	4.76	95	0.00
56	PT	Bromodiclrma	0.3547	0.3702	-4.37	106	0.00
57	T	2Nitropropane	0.0753	0.0881	-17.00	111	0.00
58	T	2CLEVE	0.0989	0.1183	-19.62	114	0.00
59	PT	c13dicloproe	0.4138	0.4564	-10.29	110	0.00
60	PT	4Meth2Pentan	0.2116	0.2277	-7.61	104	0.00
61	S	SURRd8Tolule	1.0102	0.9921	1.79	104	0.00
62	PT	Toluene	0.7536	0.8021	-6.44	106	0.00
63	PT	t13Dicloprop	0.3623	0.3934	-8.58	110	0.00
64	T	ethylmethacrylate	0.3421	0.3777	-10.41	107	0.00
65	PT	112Triclotha	0.2042	0.2141	-4.85	106	0.00
66	PT	Tetrachlorte	0.3376	0.3649	-8.09	107	0.00
67	T	13Diclorpropa	0.4399	0.4465	-1.50	102	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	102	0.00
69	PT	2Hexanone	0.1811	0.2076	-14.63	105	0.00
70	PT	Clorodibrmta	0.3170	0.3470	-9.46	108	0.00
71	PT	12Dibrometha	0.3034	0.3262	-7.51	105	0.00
72	PT	Chlorobenzen	0.9433	1.0201	-8.14	105	0.00
73	T	1Clhexane	0.4558	0.5200	-14.09	109	0.00
74	T	1112Tetclota	0.3360	0.3672	-9.29	109	0.00
75	PT	Ethylbenzene	1.4436	1.6812	-16.46	107	0.00
76	PT	m p-Xylene	0.5718	0.6481	-13.34	105	0.00
77	PT	o-Xylene	0.5593	0.6222	-11.25	107	0.00
78	PT	Styrene	0.8771	1.0133	-15.53	105	0.00
79	PT	Bromoform	0.2148	0.2211	-2.93	106	0.00
80	PT	Isopropylben	1.3412	1.6049	-19.66	108	0.00
81	T	cyclohexanone	0.0081	0.0076#	6.17	99	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	102	0.00
83	S	SURR4BrFBenz	0.8166	0.8388	-2.72	106	0.00
84	T	Bromobenzene	0.7042	0.7425	-5.44	106	0.00
85	PT	1122Tetrclta	0.7279	0.7506	-3.12	105	0.00
86	T	123Triclproa	0.8593	0.9041	-5.21	106	0.00
87	T	14dichloro2butene	0.1693	0.1768	-4.43	104	0.00
88	T	n-Propylbenz	2.7174	3.2188	-18.45	106	0.00
89	T	2chlorotolue	1.7084	1.8787	-9.97	103	0.00
90	T	4chlorotolue	1.9660	2.2080	-12.31	107	0.00
91	T	135Trimebenz	1.9227	2.2175	-15.33	104	0.00
92	T	tbutylbenzen	1.7147	2.0034	-16.84	110	0.00
93	T	124Trimetben	1.9204	2.2330	-16.28	104	0.00
94	T	sbutylbenzen	2.3485	2.7868	-18.66	104	0.00
95	PT	13Diclorbenz	1.2899	1.4167	-9.83	108	0.00
96	T	pIsopropylto	2.0541	2.4331	-18.45	103	0.00
97	PT	14dichlorobe	1.3622	1.4415	-5.82	106	0.00
98	PT	12dichlorobe	1.2613	1.3343	-5.79	104	0.00
99	T	nButylbenzen	1.9271	2.2025	-14.29	105	0.00
100	PT	12dibromo3cl	0.1553	0.1526	1.74	102	0.00
101	T	135Trichlorobenzene	0.9194	1.0123	-10.10	108	0.00
102	PT	124Trichlobe	0.7441	0.8141	-9.41	112	0.00
103	T	Hexachlorobu	0.3593	0.3905	-8.68	107	0.00
104	T	Naphthalene	1.5747	1.8307	-16.26	109	0.00
105	T	123Trichlben	0.6816	0.7360	-7.98	105	0.00

(#) = Out of Range SPCC's out = 2 CCC's out = 0

W112419.M Wed Dec 11 15:25:05 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV2419B\ICV1.D Vial: 15
Acq On : 25 Nov 2019 4:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 25 07:10:15 2019

Quant Method : C:\INSTARCH\METHODS\W112419.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W112419.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	104	0.00
2	PT	Dichlorodi	10.0000	11.6727	-16.73	114	0.00
3	PT	Chloromethan	10.0000	10.8836	-8.84	109	0.00
4	PT	VinylChlorid	10.0000	10.4704	-4.70	99	0.00
5	PT	Bromomethane	10.0000	11.6236	-16.24	119	0.00
6	PT	Chloroethane	10.0000	10.2039	-2.04	105	0.00
7	T	Dichloroflmethane	10.0000	10.5217	-5.22	106	0.00
8	PT	Trichlorofma	10.0000	11.2261	-12.26	103	0.00
9	T	Ethylether	10.0000	10.6158	-6.16	111	0.00
10	T	dichlorotfluoroethan	10.0000	10.7416	-7.42	105	0.00
11	T	propyleneoxide	100.0000	112.5430	-12.54	117	0.00
12	T	Acrolein	50.0000	50.5823	-1.16	101	0.00
13	PT	11dichlorthe	10.0000	11.1336	-11.34	108	0.00
14	PT	Trichlorotfluoroeth	20.0000	22.3943	-11.97	102	0.00
15	PT	Acetone	100.0000	99.3765	0.62	104	0.00
16	T	Iodomethane	20.0000	17.1557	14.22	102	0.00
17	PT	Carbon Dislf	20.0000	22.4976	-12.49	106	0.00
18	T	allylchloride	20.0000	22.4984	-12.49	110	0.00
19	PT	methylacetate	10.0000	10.1143	-1.14	106	0.00
20	PT	Methylchlorid	10.0000	9.9044	0.96	108	0.00
21	T	tbutylalcohol	500.0000	526.6007	-5.32	101	0.00
22	T	Acrylonitrile	50.0000	49.7831	0.43	100	0.00
23	PT	t12dichlorte	10.0000	10.5350	-5.35	104	0.00
24	PT	MtBE	10.0000	10.5307	-5.31	105	0.00
25	T	Hexane	20.0000	23.8873	-19.44	105	0.00
26	PT	11dichlorota	10.0000	10.3332	-3.33	105	0.00
27	T	Vinylacetate	100.0000	115.2893	-15.29	107	0.00
28	T	chloroprene	20.0000	22.9014	-14.51	107	0.00
29	T	Diisopether	10.0000	10.7517	-7.52	107	0.00
30	T	ETBE	10.0000	11.0501	-10.50	109	0.00
31	T	22dichloropr	10.0000	10.4170	-4.17	103	0.00
32	PT	c12dichlorte	10.0000	10.0077	-0.08	107	0.00
33	PT	2Butanone	100.0000	108.0174	-8.02	106	0.00
34	T	propionitrile	100.0000	97.3562	2.64	100	0.00
35	T	Ethylacetate	50.0000	50.6899	-1.38	101	0.00
36	T	methacrylonitrile	20.0000	22.7007	-13.50	112	0.00
37	T	Bromochlorma	10.0000	10.0993	-0.99	106	0.00
38	T	Tetrahydofur	100.0000	102.1869	-2.19	102	0.00
39	PT	Chloroform	10.0000	10.2758	-2.76	103	-0.01
40	PT	111trichlota	10.0000	10.7851	-7.85	104	0.00
41	S	SURRDibrflma	20.0000	19.6073	1.96	103	0.00
42	PT	Cyclohexane	10.0000	11.4154	-14.15	106	0.00
43	PT	Carbtetraclo	10.0000	11.0864	-10.86	108	0.00
44	T	11dicloprope	10.0000	10.7668	-7.67	107	0.00
45	S	SURR12DCAd4	20.0000	20.0424	-0.21	104	0.00
46	PT	Benzene	10.0000	10.9053	-9.05	106	0.00
47	PT	12dichlorota	10.0000	10.2619	-2.62	105	0.00
48	T	TAME	10.0000	11.3471	-13.47	111	0.00

49	PT	trichloroete	10.0000	10.7518	-7.52	112	0.00
50	PT	methylcyclohexane	10.0000	11.2643	-12.64	105	0.00
51	PT	12dicloropra	10.0000	10.0705	-0.70	103	0.00
52	T	23Dicl1propene	10.0000	10.5124	-5.12	108	0.00
53	T	Dibromometha	10.0000	10.3676	-3.68	110	0.00
54	T	methylmethacrylate	10.0000	10.6582	-6.58	108	0.00
55	T	14dioxane	500.0000	445.9221	10.82	95	0.00
56	PT	Bromodiclrma	10.0000	10.4380	-4.38	106	0.00
57	T	2Nitropropane	100.0000	116.8852	-16.89	111	0.00
58	T	2CLEVE	50.0000	53.7430	-7.49	114	0.00
59	PT	c13dicloproe	10.0000	11.0296	-10.30	110	0.00
60	PT	4Meth2Pentan	100.0000	107.5869	-7.59	104	0.00
61	S	SURRd8Tolule	20.0000	19.6410	1.80	104	0.00
62	PT	Toluene	10.0000	10.6430	-6.43	106	0.00
63	PT	t13Dicloprop	10.0000	10.8579	-8.58	110	0.00
64	T	ethylmethacrylate	20.0000	22.0866	-10.43	107	0.00
65	PT	112Triclotha	10.0000	10.4876	-4.88	106	0.00
66	PT	Tetrachlorte	10.0000	10.8066	-8.07	107	0.00
67	T	13Diclorpropa	10.0000	10.1505	-1.50	102	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	102	0.00
69	PT	2Hexanone	100.0000	114.6881	-14.69	105	0.00
70	PT	Clorodibrmta	10.0000	10.9482	-9.48	108	0.00
71	PT	12Dibrometha	10.0000	10.7520	-7.52	105	0.00
72	PT	Chlorobenzen	10.0000	10.8144	-8.14	105	0.00
73	T	1Clhexane	10.0000	11.4103	-14.10	109	0.00
74	T	1112Tetclota	10.0000	10.9281	-9.28	109	0.00
75	PT	Ethylbenzene	10.0000	11.6460	-16.46	107	0.00
76	PT	m p-Xylene	20.0000	22.6701	-13.35	105	0.00
77	PT	o-Xylene	10.0000	11.1248	-11.25	107	0.00
78	PT	Styrene	10.0000	11.5523	-15.52	105	0.00
79	PT	Bromoform	10.0000	10.2972	-2.97	106	0.00
80	PT	Isopropylben	10.0000	11.9659	-19.66	108	0.00
81	T	cyclohexanone	200.0000	188.0218	5.99	99	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	102	0.00
83	S	SURR4BrFBenz	20.0000	20.5426	-2.71	106	0.00
84	T	Bromobenzene	10.0000	10.5428	-5.43	106	0.00
85	PT	1122Tetrclta	10.0000	10.3108	-3.11	105	0.00
86	T	123Triclproa	10.0000	10.5209	-5.21	106	0.00
87	T	14dichloro2butene	10.0000	10.4444	-4.44	104	0.00
88	T	n-Propylbenz	10.0000	11.8451	-18.45	106	0.00
89	T	2chlorotolue	10.0000	10.9968	-9.97	103	0.00
90	T	4chlorotolue	10.0000	11.2307	-12.31	107	0.00
91	T	135Trimebenz	10.0000	11.5332	-15.33	104	0.00
92	T	tbutylbenzen	10.0000	11.6835	-16.84	110	0.00
93	T	124Trimetben	10.0000	11.6276	-16.28	104	0.00
94	T	sbutylbenzen	10.0000	11.8666	-18.67	104	0.00
95	PT	13Diclorbenz	10.0000	10.9826	-9.83	108	0.00
96	T	pIsopropylto	10.0000	11.8452	-18.45	103	0.00
97	PT	14dichlorobe	10.0000	10.5816	-5.82	106	0.00
98	PT	12dichlorobe	10.0000	10.5788	-5.79	104	0.00
99	T	nButylbenzen	10.0000	11.4293	-14.29	105	0.00
100	PT	12dibromo3cl	10.0000	9.8286	1.71	102	0.00
101	T	135Trichlorobenzene	10.0000	11.0111	-10.11	108	0.00
102	PT	124Trichlobe	10.0000	10.9404	-9.40	112	0.00
103	T	Hexachlorobu	10.0000	10.8669	-8.67	107	0.00
104	T	Naphthalene	10.0000	11.6255	-16.26	109	0.00
105	T	123Trichlben	10.0000	10.7978	-7.98	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W112419.M Wed Dec 11 15:25:25 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV2419B\ICV1.D Vial: 15
Acq On : 25 Nov 2019 4:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:10:15 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:11 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1045784	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	858051	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	508784	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	276284	19.607	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 98	%		
45) SURR12DCAd4	7.20	102	73324	20.042	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 100	%		
61) SURRd8Tolule	9.63	98	1037484	19.641	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 98	%		
83) SURR4BrFBenz	13.18	95	426765	20.543	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 103	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	192687	11.6727	ug/L	98
3) Chloromethan	2.09	50	153080	10.8836	ug/L	99
4) VinylChlorid	2.24	62	196482	10.4704	ug/L	97
5) Bromomethane	2.70	94	141571	11.6236	ug/L	96
6) Chloroethane	2.86	64	145479	10.2039	ug/L	98
7) Dichloroflmethane	3.16	67	262640	10.5217	ug/L	97
8) Trichlorofma	3.23	101	258102	11.2261	ug/L	98
9) Ethylether	3.67	59	111729	10.6158	ug/L	97
10) dichlorotfluoroethan	3.68	67	163074	10.7416	ug/L	99
11) propyleneoxide	3.73	58	281010	112.5430	ug/L	94
12) Acrolein	3.81	56	114138	50.5823	ug/L	99
13) 11dichlorthe	3.95	96	143873	11.1336	ug/L	95
14) Trichlorotfluoroeth	3.98	101	287555	22.3943	ug/L	98
15) Acetone	4.03	43	333763	99.3765	ug/L	98
16) Iodomethane	4.12	142	212669	17.1557	ug/L	98
17) Carbon Dislf	4.21	76	732669	22.4976	ug/L	100
18) allylchloride	4.43	41	397598	22.4984	ug/L	99
19) methylacetate	4.49	74	60901	10.1143	ug/L	97
20) Methylchlorid	4.59	84	151860	9.9044	ug/L	99
21) tbutylalcohol	4.79	59	607641	526.6007	ug/L	97
22) Acrylonitrile	4.90	53	187110	49.7831	ug/L	95
23) t12dichlorte	4.96	96	153600	10.5350	ug/L	98
24) MtBE	4.99	73	402914	10.5307	ug/L	100
25) Hexane	5.34	57	417139	23.8873	ug/L	96
26) 11dichlorota	5.48	63	243047	10.3332	ug/L	98
27) Vinylacetate	5.57	43	2049797	115.2893	ug/L	98
28) chloroprene	5.61	53	431197	22.9014	ug/L	98
29) Diisopether	5.63	45	389364	10.7517	ug/L	100
30) ETBE	6.08	59	377894	11.0501	ug/L	98
31) 22dichloropr	6.20	77	224803	10.4170	ug/L	98
32) c12dichlorte	6.21	96	163179	10.0077	ug/L	98
33) 2Butanone	6.23	72	185325	108.0174	ug/L	95
34) propionitrile	6.27	54	165517	97.3562	ug/L	96
35) Ethylacetate	6.34	88	31610	50.6899	ug/L #	87
36) methacrylonitrile	6.47	67	137349	22.7007	ug/L	99
37) Bromochlorma	6.50	128	76781	10.0993	ug/L	99
38) Tetrahydofur	6.58	42	370241	102.1869	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV2419B\ICV1.D Vial: 15
Acq On : 25 Nov 2019 4:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:10:15 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:11 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.59	83	260433	10.2758 ug/L	97
40)	111trichlota	6.84	97	249921	10.7851 ug/L	98
42)	Cyclohexane	6.92	56	223524	11.4154 ug/L	99
43)	Carbtetraclo	7.06	119	216118	11.0864 ug/L	100
44)	11dicloprope	7.05	110	78119	10.7668 ug/L	98
46)	Benzene	7.29	78	599071	10.9053 ug/L	98
47)	12dichlorota	7.30	62	195216	10.2619 ug/L	96
48)	TAME	7.46	73	402837	11.3471 ug/L	99
49)	trichloroete	8.10	95	162036	10.7518 ug/L	98
50)	methylcyclohexane	8.36	83	308714	11.2643 ug/L	99
51)	12dicloropra	8.35	63	141832	10.0705 ug/L	95
52)	23Dicl1propene	8.42	75	216988	10.5124 ug/L	97
53)	Dibromometha	8.50	93	96084	10.3676 ug/L	99
54)	methylmethacrylate	8.53	69	103503	10.6582 ug/L	95
55)	14dioxane	8.55	88	52709	445.9221 ug/L	98
56)	Bromodiclrma	8.70	83	193573	10.4380 ug/L	98
57)	2Nitropropane	8.96	43	460516	116.8852 ug/L	96
58)	2CLEVE	9.09	63	309200	53.7430 ug/L	99
59)	c13dicloproe	9.28	75	238648	11.0296 ug/L	100
60)	4Meth2Pentan	9.47	43	1190576	107.5869 ug/L	99
62)	Toluene	9.72	92	419387	10.6430 ug/L	100
63)	t13Dicloprop	9.99	75	205694	10.8579 ug/L	97
64)	ethylmethacrylate	10.13	69	395037	22.0866 ug/L	98
65)	112Triclotha	10.22	83	111973	10.4876 ug/L	96
66)	Tetrachlorte	10.45	166	190788	10.8066 ug/L	100
67)	13Diclorpropa	10.44	76	233493	10.1505 ug/L	99
69)	2Hexanone	10.56	43	890859	114.6881 ug/L	100
70)	Clorodibrmta	10.74	129	148881	10.9482 ug/L	100
71)	12Dibrometha	10.90	107	139934	10.7520 ug/L	99
72)	Chlorobenzen	11.58	112	437653	10.8144 ug/L	99
73)	1Clhexane	11.56	91	223107	11.4103 ug/L	98
74)	1112Tetclota	11.69	131	157518	10.9281 ug/L	98
75)	Ethylbenzene	11.74	91	721275	11.6460 ug/L	99
76)	m p-Xylene	11.90	106	556126	22.6701 ug/L	99
77)	o-Xylene	12.45	106	266945	11.1248 ug/L	99
78)	Styrene	12.46	104	434729	11.5523 ug/L	97
79)	Bromoform	12.69	173	94874	10.2972 ug/L	99
80)	Isopropylben	12.97	105	688553	11.9659 ug/L	99
81)	cyclohexanone	13.06	55	65635	188.0218 ug/L	96
84)	Bromobenzene	13.38	156	188879	10.5428 ug/L	99
85)	1122Tetrclta	13.36	83	190937	10.3108 ug/L	100
86)	123Triclproa	13.42	75	229996	10.5209 ug/L	97
87)	14dichloro2butene	13.45	53	44989	10.4444 ug/L	99
88)	n-Propylbenz	13.56	91	818827	11.8451 ug/L	99
89)	2chlorotolue	13.67	91	477936	10.9968 ug/L	99
90)	4chlorotolue	13.82	91	561692	11.2307 ug/L	99
91)	135Trimebenz	13.81	105	564121	11.5332 ug/L	100
92)	tbutylbenzen	14.28	119	509647	11.6835 ug/L	99
93)	124Trimetben	14.35	105	568052	11.6276 ug/L	96
94)	sbutylbenzen	14.60	105	708952	11.8666 ug/L	98
95)	13Diclorbenz	14.74	146	360397	10.9826 ug/L	98
96)	pIsopropylto	14.82	119	618964	11.8452 ug/L	97
97)	14dichlorobe	14.87	146	366694	10.5816 ug/L	98
98)	12dichlorobe	15.40	146	339444	10.5788 ug/L	98
99)	nButylbenzen	15.41	91	560308	11.4293 ug/L	99
100)	12dibromo3cl	16.50	157	38825	9.8286 ug/L	97
101)	135Trichlorobenzene	16.83	180	257527	11.0111 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

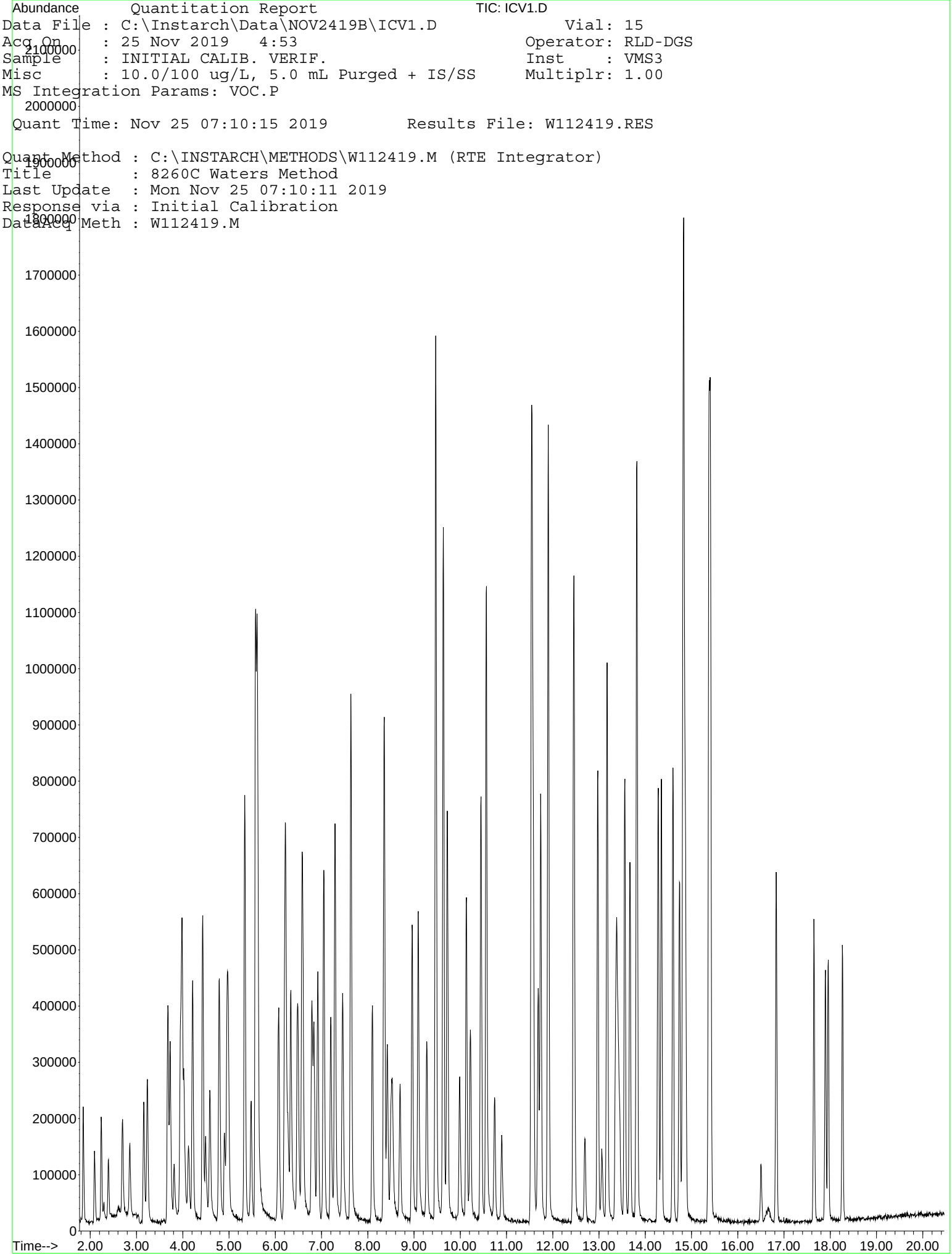
Data File : C:\Instarch\Data\NOV2419B\ICV1.D Vial: 15
Acq On : 25 Nov 2019 4:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:10:15 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:11 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	207106	10.9404	ug/L	98
103)	Hexachlorobu	17.89	225	99336	10.8669	ug/L	98
104)	Naphthalene	17.96	128	465704	11.6255	ug/L	99
105)	123Trichlben	18.26	180	187227	10.7978	ug/L	97

(#) = qualifier out of range (m) = manual integration


Abundance
Quantitation Report
TIC: ICV1.D
Data File : C:\Instarch\Data\NOV2419B\ICV1.D
Vial: 15
Acq On : 25 Nov 2019 4:53
Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.
Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC.P
Quant Time: Nov 25 07:10:15 2019
Results File: W112419.RES
Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:11 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
2100000
2000000
1900000
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time-->
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5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV2419B\ICV2.D Vial: 16
Acq On : 25 Nov 2019 5:22 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 25 07:10:54 2019

Quant Method : C:\INSTARCH\METHODS\W112419.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W112419.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	102	0.00
2	PT	Dichlorodi	30.0000	32.0250	-6.75	112	0.00
3	PT	Chloromethan	30.0000	28.6099	4.63	101	0.00
4	PT	VinylChlorid	30.0000	28.2992	5.67	96	0.00
5	PT	Bromomethane	30.0000	29.7859	0.71	110	0.00
6	PT	Chloroethane	30.0000	27.4517	8.49	99	0.00
7	T	Dichloroflmethane	30.0000	29.1848	2.72	104	0.00
8	PT	Trichlorofma	30.0000	30.4186	-1.40	101	0.00
9	T	Ethylether	30.0000	30.0908	-0.30	101	0.00
10	T	dichlorotfluoroethan	30.0000	30.4580	-1.53	104	0.00
11	T	propyleneoxide	300.0000	328.5828	-9.53	109	0.00
12	T	Acrolein	150.0000	165.9532	-10.64	106	0.00
13	PT	11dichlorthe	30.0000	31.5464	-5.15	103	0.00
14	PT	Trichlorotfluoroeth	60.0000	60.6573	-1.10	99	0.00
15	PT	Acetone	300.0000	314.8495	-4.95	107	0.00
16	T	Iodomethane	60.0000	55.9993	6.67	94	0.00
17	PT	Carbon Dislf	60.0000	58.4866	2.52	100	0.00
18	T	allylchloride	60.0000	63.0863	-5.14	105	0.00
19	PT	methylacetate	30.0000	33.5410	-11.80	111	0.00
20	PT	Methylchlorid	30.0000	27.0866	9.71	103	0.00
21	T	tbutylalcohol	1500.0000	1668.1601	-11.21	111	0.00
22	T	Acrylonitrile	150.0000	174.3118	-16.21	106	-0.01
23	PT	t12dichlorte	30.0000	30.1318	-0.44	100	0.00
24	PT	MtBE	30.0000	30.1877	-0.63	104	0.00
25	T	Hexane	60.0000	64.9922	-8.32	102	0.00
26	PT	11dichlorota	30.0000	28.9484	3.51	102	0.00
27	T	Vinylacetate	300.0000	270.3732	9.88	102	0.00
28	T	chloroprene	60.0000	63.8645	-6.44	103	0.00
29	T	Diisopether	30.0000	30.1939	-0.65	102	0.00
30	T	ETBE	30.0000	31.1694	-3.90	104	0.00
31	T	22dichloropr	30.0000	29.1199	2.93	98	0.00
32	PT	c12dichlorte	30.0000	29.3481	2.17	100	0.00
33	PT	2Butanone	300.0000	339.7452	-13.25	109	0.00
34	T	propionitrile	300.0000	321.1614	-7.05	110	0.00
35	T	Ethylacetate	150.0000	165.7782	-10.52	104	0.00
36	T	methacrylonitrile	60.0000	70.6399	-17.73	112	0.00
37	T	Bromochlorma	30.0000	28.0968	6.34	98	0.00
38	T	Tetrahydofur	300.0000	305.1772	-1.73	106	0.00
39	PT	Chloroform	30.0000	29.3678	2.11	101	0.00
40	PT	111trichlota	30.0000	31.2413	-4.14	103	0.00
41	S	SURRDibrflma	20.0000	19.5922	2.04	97	0.00
42	PT	Cyclohexane	30.0000	32.9745	-9.91	103	0.00
43	PT	Carbtetraclo	30.0000	32.2187	-7.40	103	0.00
44	T	11dicloprope	30.0000	31.1201	-3.73	101	0.00
45	S	SURR12DCAd4	20.0000	20.7375	-3.69	108	0.00
46	PT	Benzene	30.0000	28.6438	4.52	100	0.00
47	PT	12dichlorota	30.0000	28.9004	3.67	100	0.00
48	T	TAME	30.0000	31.7541	-5.85	103	0.00

49	PT	trichloroete	30.0000	30.3538	-1.18	102	0.00
50	PT	methylcyclohexane	30.0000	32.8049	-9.35	102	0.00
51	PT	12dicloropra	30.0000	28.8617	3.79	98	0.00
52	T	23Dicl1propene	30.0000	31.4812	-4.94	102	0.00
53	T	Dibromometha	30.0000	28.5543	4.82	100	0.00
54	T	methylmethacrylate	30.0000	34.5379	-15.13	106	0.00
55	T	14dioxane	1500.0000	1581.8458	-5.46	109	0.00
56	PT	Bromodiclrma	30.0000	30.3459	-1.15	101	0.00
57	T	2Nitropropane	300.0000	355.4922	-18.50	110	0.00
58	T	2CLEVE	150.0000	161.5673	-7.71	110	0.00
59	PT	c13dicloproe	30.0000	31.3742	-4.58	102	0.00
60	PT	4Meth2Pentan	300.0000	276.1199	7.96	105	0.00
61	S	SURRd8Tolule	20.0000	19.7924	1.04	99	0.00
62	PT	Toluene	30.0000	29.0572	3.14	103	0.00
63	PT	t13Dicloprop	30.0000	32.3635	-7.88	103	0.00
64	T	ethylmethacrylate	60.0000	65.8543	-9.76	104	0.00
65	PT	112Triclotha	30.0000	30.3421	-1.14	102	0.00
66	PT	Tetrachlorte	30.0000	30.5670	-1.89	100	0.00
67	T	13Diclorpropa	30.0000	29.2770	2.41	102	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	100	0.00
69	PT	2Hexanone	300.0000	309.3506	-3.12	107	0.00
70	PT	Clorodibrmta	30.0000	31.8310	-6.10	102	0.00
71	PT	12Dibrometha	30.0000	30.9877	-3.29	102	0.00
72	PT	Chlorobenzen	30.0000	28.7998	4.00	101	0.00
73	T	1Clhexane	30.0000	31.6804	-5.60	100	0.00
74	T	1112Tetclota	30.0000	30.9094	-3.03	99	0.00
75	PT	Ethylbenzene	30.0000	29.9963	0.01	101	0.00
76	PT	m p-Xylene	60.0000	61.0638	-1.77	102	0.00
77	PT	o-Xylene	30.0000	31.9638	-6.55	101	0.00
78	PT	Styrene	30.0000	32.5234	-8.41	101	0.00
79	PT	Bromoform	30.0000	32.6064	-8.69	105	0.00
80	PT	Isopropylben	30.0000	31.6657	-5.55	102	0.00
81	T	cyclohexanone	600.0000	710.0720	-18.35	111	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	99	0.00
83	S	SURR4BrFBenz	20.0000	20.1832	-0.92	101	0.00
84	T	Bromobenzene	30.0000	29.7443	0.85	102	0.00
85	PT	1122Tetrclta	30.0000	29.1287	2.90	104	0.00
86	T	123Triclproa	30.0000	31.2653	-4.22	105	0.00
87	T	14dichloro2butene	30.0000	33.8906	-12.97	107	0.00
88	T	n-Propylbenz	30.0000	29.9199	0.27	101	0.00
89	T	2chlorotolue	30.0000	29.7117	0.96	100	0.00
90	T	4chlorotolue	30.0000	29.6981	1.01	100	0.00
91	T	135Trimebenz	30.0000	31.3077	-4.36	102	0.00
92	T	tbutylbenzen	30.0000	31.9704	-6.57	103	0.00
93	T	124Trimetben	30.0000	31.1789	-3.93	100	0.00
94	T	sbutylbenzen	30.0000	31.4528	-4.84	101	0.00
95	PT	13Diclorbenz	30.0000	29.3688	2.10	100	0.00
96	T	pIsopropylto	30.0000	31.8913	-6.30	101	0.00
97	PT	14dichlorobe	30.0000	28.3868	5.38	100	0.00
98	PT	12dichlorobe	30.0000	28.6165	4.61	100	0.00
99	T	nButylbenzen	30.0000	30.8569	-2.86	101	0.00
100	PT	12dibromo3cl	30.0000	31.7890	-5.96	104	0.00
101	T	135Trichlorobenzene	30.0000	30.1102	-0.37	101	0.00
102	PT	124Trichlobe	30.0000	30.4917	-1.64	100	0.00
103	T	Hexachlorobu	30.0000	30.2048	-0.68	102	0.00
104	T	Naphthalene	30.0000	33.8862	-12.95	106	0.00
105	T	123Trichlben	30.0000	31.5487	-5.16	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W112419.M Wed Dec 11 15:25:56 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV2419B\ICV2.D Vial: 16
Acq On : 25 Nov 2019 5:22 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:10:54 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:44 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1074679	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	898780	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	537525	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	283698	19.592	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 98 %			
45) SURR12DCAd4	7.20	102	77963	20.737	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 104 %			
61) SURRd8Tolule	9.63	98	1074370	19.792	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	442983	20.183	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	543260	32.0250	ug/L	98
3) Chloromethan	2.10	50	413522	28.6099	ug/L	95
4) VinylChlorid	2.24	62	545721	28.2992	ug/L	98
5) Bromomethane	2.69	94	372805	29.7859	ug/L	94
6) Chloroethane	2.86	64	402198	27.4517	ug/L	100
7) Dichloroflmethane	3.16	67	748634	29.1848	ug/L	99
8) Trichlorofma	3.23	101	718686	30.4186	ug/L	96
9) Ethylether	3.67	59	325451	30.0908	ug/L	99
10) dichlorotfluoroethan	3.68	67	475177	30.4580	ug/L	98
11) propyleneoxide	3.73	58	843111	328.5828	ug/L	97
12) Acrolein	3.81	56	384817	165.9532	ug/L	99
13) 11dichlorthe	3.95	96	418918	31.5464	ug/L	96
14) Trichlorotfluoroeth	3.98	101	800391	60.6573	ug/L	98
15) Acetone	4.02	43	1086661	314.8495	ug/L	96
16) Iodomethane	4.13	142	815992	55.9993	ug/L	99
17) Carbon Dislf	4.21	76	1957331	58.4866	ug/L	98
18) allylchloride	4.43	41	1145681	63.0863	ug/L	98
19) methylacetate	4.49	74	207540	33.5410	ug/L	98
20) Methylchlorid	4.59	84	426781	27.0866	ug/L	98
21) tbutylalcohol	4.79	59	1978063	1668.1601	ug/L	98
22) Acrylonitrile	4.89	53	673253	174.3118	ug/L	95
23) t12dichlorte	4.96	96	451460	30.1318	ug/L	99
24) MtBE	4.98	73	1186924	30.1877	ug/L	100
25) Hexane	5.34	57	1166301	64.9922	ug/L	96
26) 11dichlorota	5.48	63	699709	28.9484	ug/L	97
27) Vinylacetate	5.57	43	4939949	270.3732	ug/L	90
28) chloroprene	5.61	53	1235691	63.8645	ug/L	100
29) Diisopether	5.62	45	1123663	30.1939	ug/L	98
30) ETBE	6.07	59	1095387	31.1694	ug/L	98
31) 22dichloropr	6.21	77	645785	29.1199	ug/L	98
32) c12dichlorte	6.21	96	491751	29.3481	ug/L	94
33) 2Butanone	6.23	72	599005	339.7452	ug/L	100
34) propionitrile	6.27	54	583194	321.1614	ug/L	99
35) Ethylacetate	6.34	88	106235	165.7782	ug/L #	92
36) methacrylonitrile	6.47	67	439211	70.6399	ug/L	99
37) Bromochlorma	6.50	128	219512	28.0968	ug/L	96
38) Tetrahydofur	6.57	42	1136261	305.1772	ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV2419B\ICV2.D Vial: 16
Acq On : 25 Nov 2019 5:22 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:10:54 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:44 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	764869	29.3678	ug/L	100
40)	111trichlota	6.84	97	743950	31.2413	ug/L	99
42)	Cyclohexane	6.92	56	663511	32.9745	ug/L	99
43)	Carbtetraclo	7.06	119	645423	32.2187	ug/L	100
44)	11dicloprope	7.05	110	232033	31.1201	ug/L	95
46)	Benzene	7.29	78	1616991	28.6438	ug/L	98
47)	12dichlorota	7.29	62	564975	28.9004	ug/L	98
48)	TAME	7.46	73	1158457	31.7541	ug/L	97
49)	trichloroete	8.10	95	470087	30.3538	ug/L	98
50)	methylcyclohexane	8.36	83	923907	32.8049	ug/L	99
51)	12dicloropra	8.36	63	417716	28.8617	ug/L	96
52)	23Dicl1propene	8.42	75	667761	31.4812	ug/L	99
53)	Dibromometha	8.50	93	271945	28.5543	ug/L	97
54)	methylmethacrylate	8.53	69	344670	34.5379	ug/L	95
55)	14dioxane	8.55	88	201696	1581.8458	ug/L	99
56)	Bromodiclrma	8.70	83	578313	30.3459	ug/L	100
57)	2Nitropropane	8.96	43	1439303	355.4922	ug/L	97
58)	2CLEVE	9.09	63	967992	161.5673	ug/L	98
59)	c13dicloproe	9.28	75	697603	31.3742	ug/L	99
60)	4Meth2Pentan	9.47	43	3140019	276.1199	ug/L	91
62)	Toluene	9.72	92	1176637	29.0572	ug/L	94
63)	t13Dicloprop	9.98	75	630041	32.3635	ug/L	97
64)	ethylmethacrylate	10.13	69	1210404	65.8543	ug/L	97
65)	112Triclotha	10.22	83	332904	30.3421	ug/L	98
66)	Tetrachlorte	10.45	166	554564	30.5670	ug/L	99
67)	13Diclorpropa	10.44	76	692070	29.2770	ug/L	99
69)	2Hexanone	10.56	43	2516993	309.3506	ug/L	93
70)	Clorodibrmta	10.74	129	453404	31.8310	ug/L	99
71)	12Dibrometha	10.90	107	422437	30.9877	ug/L	100
72)	Chlorobenzen	11.58	112	1220834	28.7998	ug/L	98
73)	1Clhexane	11.56	91	648857	31.6804	ug/L	97
74)	1112Tetclota	11.68	131	466677	30.9094	ug/L	99
75)	Ethylbenzene	11.74	91	1945953	29.9963	ug/L	94
76)	m p-Xylene	11.90	106	1569075	61.0638	ug/L	89
77)	o-Xylene	12.45	106	803397	31.9638	ug/L	89
78)	Styrene	12.46	104	1281998	32.5234	ug/L	95
79)	Bromoform	12.69	173	314683	32.6064	ug/L	99
80)	Isopropylben	12.97	105	1908629	31.6657	ug/L	95
81)	cyclohexanone	13.07	55	259639	710.0720	ug/L	99
84)	Bromobenzene	13.38	156	562987	29.7443	ug/L	98
85)	1122Tetrclta	13.36	83	569879	29.1287	ug/L	97
86)	123Triclproa	13.41	75	722095	31.2653	ug/L	99
87)	14dichloro2butene	13.44	53	154230	33.8906	ug/L	95
88)	n-Propylbenz	13.56	91	2185136	29.9199	ug/L	94
89)	2chlorotolue	13.67	91	1364251	29.7117	ug/L	96
90)	4chlorotolue	13.82	91	1569221	29.6981	ug/L	96
91)	135Trimebenz	13.81	105	1617850	31.3077	ug/L	97
92)	tbutylbenzen	14.28	119	1473361	31.9704	ug/L	98
93)	124Trimetben	14.35	105	1609258	31.1789	ug/L	92
94)	sbutylbenzen	14.60	105	1985255	31.4528	ug/L	95
95)	13Diclorbenz	14.74	146	1018186	29.3688	ug/L	99
96)	pIsopropylto	14.82	119	1760598	31.8913	ug/L	94
97)	14dichlorobe	14.87	146	1039288	28.3868	ug/L	98
98)	12dichlorobe	15.41	146	970090	28.6165	ug/L	97
99)	nButylbenzen	15.41	91	1598174	30.8569	ug/L	96
100)	12dibromo3cl	16.50	157	132667	31.7890	ug/L	99
101)	135Trichlorobenzene	16.83	180	743997	30.1102	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

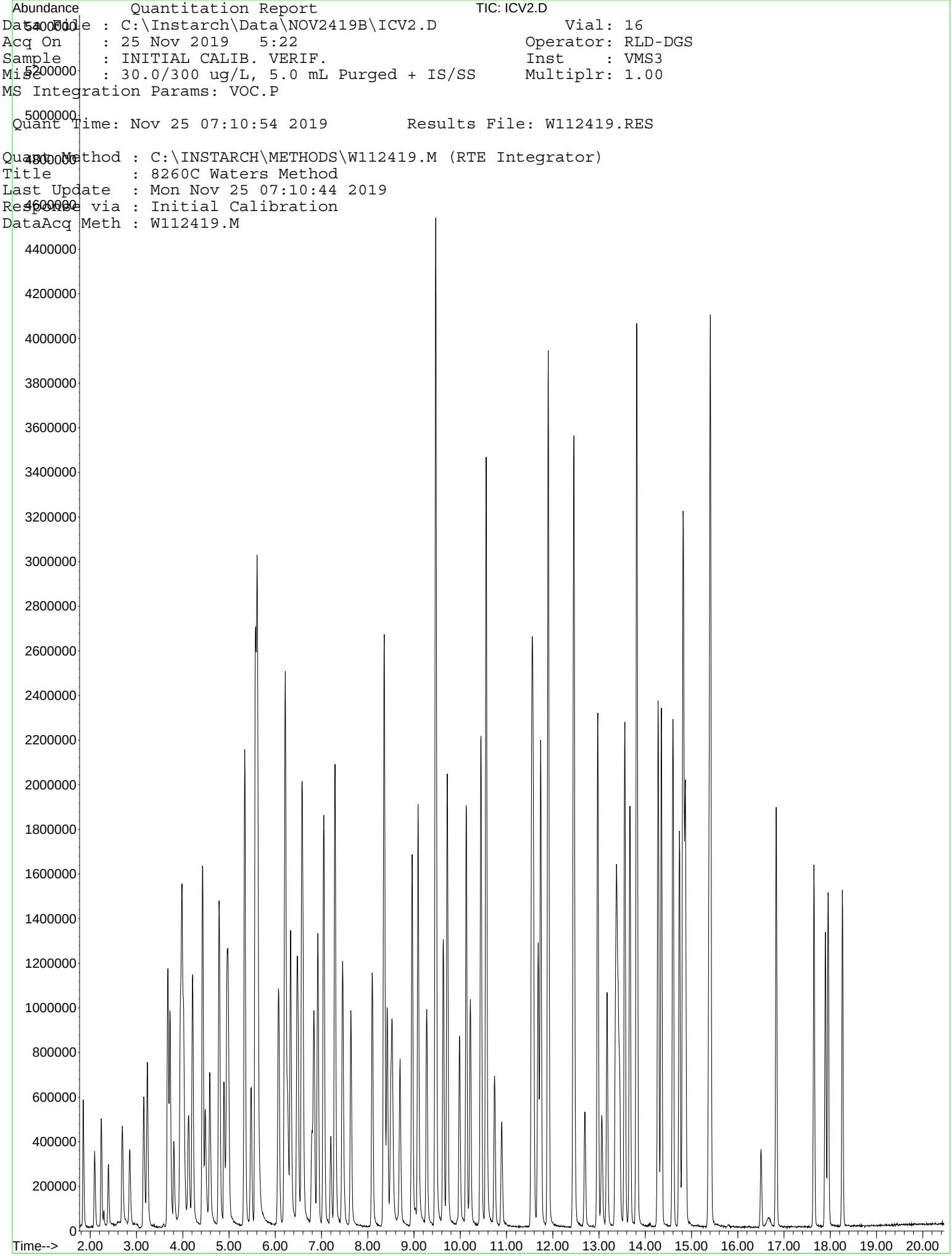
Data File : C:\Instarch\Data\NOV2419B\ICV2.D Vial: 16
Acq On : 25 Nov 2019 5:22 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:10:54 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:44 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	609826	30.4917	ug/L	99
103)	Hexachlorobu	17.90	225	291704	30.2048	ug/L	96
104)	Naphthalene	17.95	128	1434126	33.8862	ug/L	97
105)	123Trichlben	18.26	180	577938	31.5487	ug/L	97

(#) = qualifier out of range (m) = manual integration


Abundance
Quantitation Report
TIC: ICV2.D
Data File : C:\Instarch\Data\NOV2419B\ICV2.D
Vial: 16
Acq On : 25 Nov 2019 5:22
Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.
Inst : VMS3
Misc : 30.0/300 ug/L, 5.0 mL Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC.P
Quant Time: Nov 25 07:10:54 2019
Results File: W112419.RES
Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:44 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
5400000
5200000
5000000
4800000
4600000
4400000
4200000
4000000
3800000
3600000
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14.00
15.00
16.00
17.00
18.00
19.00
20.00

Quantitation Report

Data File : C:\Instarch\Data\NOV2419B\ICB1.D Vial: 18
Acq On : 25 Nov 2019 6:24 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:11:08 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:44 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	968601	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	828203	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	457394	20.00 ug/L	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma		6.79	113	262624	20.123 ug/L	0.00
Spiked Amount	20.000	Range 90 - 110		Recovery = 101 %		
45) SURR12DCAd4		7.20	102	69825	20.607 ug/L	0.00
Spiked Amount	20.000	Range 89 - 111		Recovery = 103 %		
61) SURRd8Tolule		9.63	98	965357	19.732 ug/L	0.00
Spiked Amount	20.000	Range 93 - 107		Recovery = 99 %		
83) SURR4BrFBenz		13.18	95	382186	20.464 ug/L	0.00
Spiked Amount	20.000	Range 83 - 111		Recovery = 102 %		

Target Compounds				Qvalue
2) Dichlorodi	0.00	85	0	N.D.
3) Chloromethan	0.00	50	0	N.D.
4) VinylChlorid	0.00	62	0	N.D.
5) Bromomethane	0.00	94	0	N.D.
6) Chloroethane	0.00	64	0	N.D.
7) Dichloroflmethane	0.00	67	0	N.D.
8) Trichlorofma	0.00	101	0	N.D.
9) Ethylether	0.00	59	0	N.D.
10) dichlorotfluoroethan	0.00	67	0	N.D.
11) propyleneoxide	0.00	58	0	N.D.
12) Acrolein	0.00	56	0	N.D.
13) 11dichlorthe	0.00	96	0	N.D.
14) Trichlorotfluoroeth	0.00	101	0	N.D.
15) Acetone	0.00	43	0	N.D.
16) Iodomethane	0.00	142	0	N.D.
17) Carbon Dislf	4.22	76	4832	N.D.
18) allylchloride	0.00	41	0	N.D.
19) methylacetate	0.00	74	0	N.D.
20) Methylchlorid	0.00	84	0	N.D.
21) tbutylalcohol	0.00	59	0	N.D.
22) Acrylonitrile	0.00	53	0	N.D.
23) t12dichlorte	0.00	96	0	N.D.
24) MtBE	0.00	73	0	N.D.
25) Hexane	0.00	57	0	N.D.
26) 11dichlorota	0.00	63	0	N.D.
27) Vinylacetate	0.00	43	0	N.D.
28) chloroprene	0.00	53	0	N.D.
29) Diisopether	0.00	45	0	N.D.
30) ETBE	0.00	59	0	N.D.
31) 22dichloropr	0.00	77	0	N.D.
32) c12dichlorte	0.00	96	0	N.D.
33) 2Butanone	0.00	72	0	N.D.
34) propionitrile	0.00	54	0	N.D.
35) Ethylacetate	0.00	88	0	N.D.
36) methacrylonitrile	0.00	67	0	N.D.
37) Bromochlorma	0.00	128	0	N.D.
38) Tetrahydofur	0.00	42	0	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV2419B\ICB1.D Vial: 18
Acq On : 25 Nov 2019 6:24 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:11:08 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:44 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	0.00	91	0	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.41	75	2097	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.75	146	2110	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	14.87	146	2240	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.40	91	2378	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV2419B\ICB1.D Vial: 18
Acq On : 25 Nov 2019 6:24 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:11:08 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:44 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

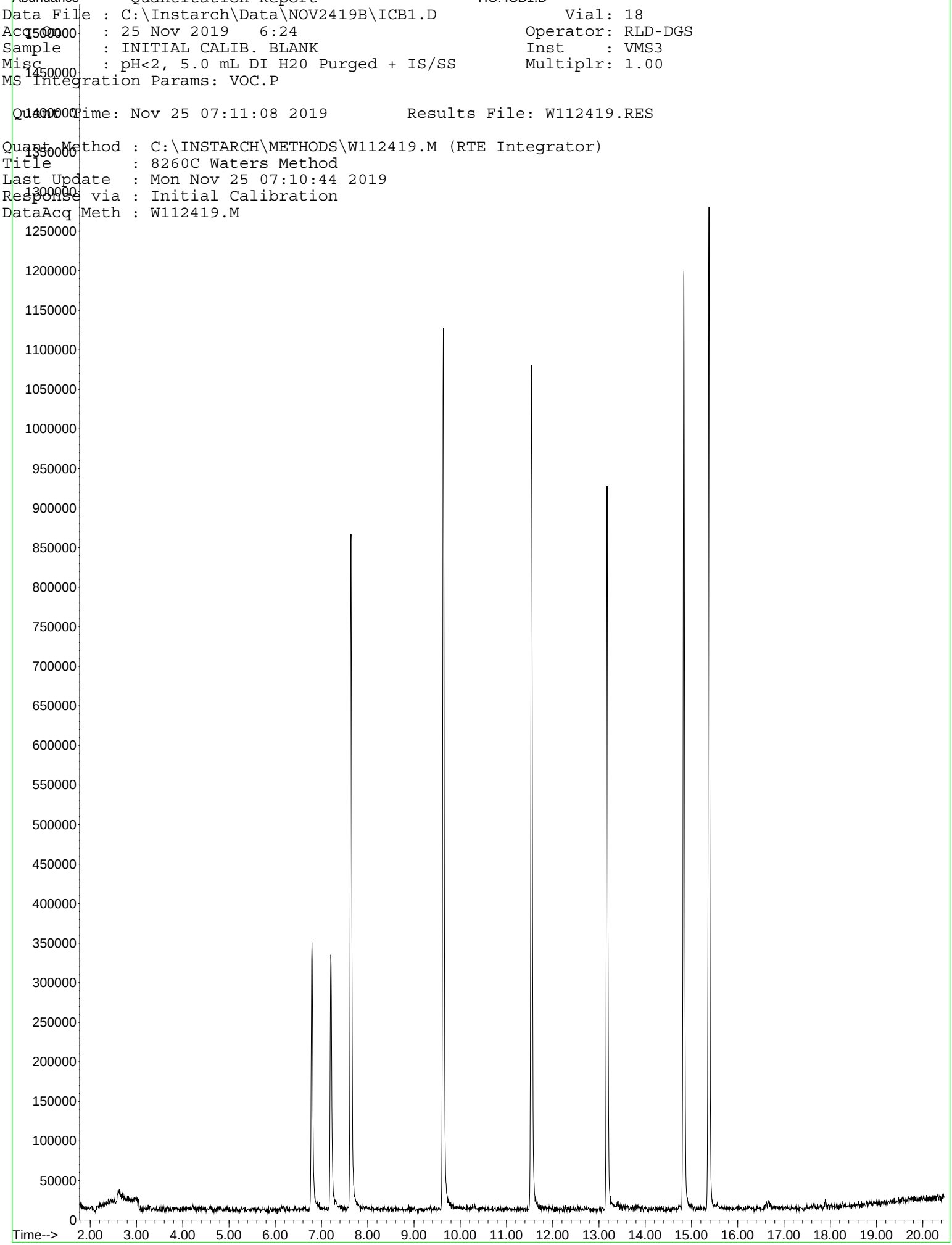
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	0.00	180	0	N.D.		
103)	Hexachlorobu	0.00	225	0	N.D.		
104)	Naphthalene	17.96	128	2759	N.D.		
105)	123Trichlben	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Data File : C:\Instarch\Data\NOV2419B\ICB1.D Vial: 18
Acq On : 25 Nov 2019 6:24 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 25 07:11:08 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Nov 25 07:10:44 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M



VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

Data File : C:\Instarch\Data\NOV1219B\BFB1.D Vial: 1
Acq On : 12 Nov 2019 16:36 Operator: RLD-DGS
Sample : 166497,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS111219.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.633 to 4.640 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	17914	PASS
75	95	30	60	45.5	45521	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.8	7786	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.0	88029	PASS
175	174	5	9	8.1	7139	PASS
176	174	95	101	98.0	86270	PASS
177	176	5	9	6.3	5445	PASS

LS111219.M Mon Dec 02 12:38:27 2019

Evaluate Continuing Calibration Report

Data File : c:\instarch\data\nov1219b\CCV1.D Vial: 2
Acq On : 12 Nov 2019 16:50 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 12 17:11:01 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	116	0.00
2	T	Dichlorodi	0.2663	0.2198	17.46	97	0.00
3	PT	Chloromethan	0.3437	0.3000	12.71	109	0.00
4	CT	VinylChlorid	0.3001	0.2457	18.13	99	0.00
5	T	Bromomethane	0.1613	0.1449	10.17	87	0.01
6	T	Chloroethane	0.1746	0.1430	18.10	103	0.01
7	T	dichloroflmethane	0.4366	0.3677	15.78	100	0.00
8	T	Trichlorofma	0.3783	0.3293	12.95	97	0.00
9	T	Ethylether	0.2091	0.2005	4.11	113	0.00
10	T	dichlorotfluoroethan	0.2664	0.2279	14.45	99	0.00
11	T	propyleneoxide	0.0352	0.0340	3.41	102	0.00
12	T	Acrolein	0.0466	0.0458	1.72	111	0.00
13	CT	11dichlorthe	0.2315	0.1993	13.91	101	0.00
14	T	Trichlorotfluoroeth	0.2134	0.1917	10.17	102	0.00
15	T	Acetone	0.0667	0.0621	6.90	110	0.00
16	T	Iodomethane	0.1640	0.1522	7.20	168	0.00
17	T	Carbon Dislf	0.6828	0.5747	15.83	101	0.00
18	T	allylchloride	0.4665	0.4066	12.84	105	0.00
19	T	methylacetate	0.0737	0.0712	3.39	114	0.00
20	T	Methylchlorid	0.3214	0.2640	17.86	112	0.00
21	T	Acrylonitrile	0.0723	0.0678	6.22	103	0.00
22	T	t12dichlorte	0.2642	0.2190	17.11	101	0.00
23	T	tbutylalcohol	0.0281	0.0266	5.34	107	0.00
24	T	MtBE	0.6350	0.6061	4.55	112	0.00
25	T	Hexane	0.3865	0.3234	16.33	101	0.00
26	PT	11dichlorota	0.4792	0.4139	13.63	104	0.00
27	T	Vinylacetate	0.3950	0.4186	-5.97	112	0.00
28	T	chloroprene	0.3802	0.3326	12.52	102	0.00
29	T	Diisopether	0.8907	0.8385	5.86	112	0.00
30	T	ETBE	0.7673	0.7486	2.44	118	0.00
31	T	22dichloropr	0.3568	0.3106	12.95	103	0.00
32	T	c12dichlorte	0.2926	0.2569	12.20	107	0.00
33	T	2Butanone	0.0220	0.0213	3.18	110	0.00
34	T	propionitrile	0.0288	0.0265	7.99	109	0.00
35	T	Ethylacetate	0.0069	0.0065#	5.80	103	0.00
36	T	methacrylonitrile	0.0829	0.0765	7.72	104	0.00
37	T	Bromochlorma	0.1302	0.1314	-0.92	115	0.00
38	T	Tetrahydofur	0.0692	0.0652	5.78	105	0.00
39	CT	Chloroform	0.4454	0.4026	9.61	108	0.00
40	T	111trichlota	0.3939	0.3423	13.10	104	0.00
41	S	SURRDibrflma	0.2461	0.2530	-2.80	120	0.00
42	T	Cyclohexane	0.4160	0.3707	10.89	103	0.00
43	T	Carbtetraclo	0.3272	0.2869	12.32	103	0.00
44	T	11dicloprope	0.1251	0.1074	14.15	103	-0.01
45	S	SURR12DCAd4	0.0520	0.0530	-1.92	111	0.00
46	T	Benzene	1.0359	0.9186	11.32	105	0.00
47	T	12dichlorota	0.3217	0.3035	5.66	111	0.00
48	T	TAME	0.6374	0.6176	3.11	119	0.00

49	T	trichloroete	0.2661	0.2219	16.61	105	0.00
50	T	methylcyclohexane	0.4426	0.4001	9.60	102	0.00
51	CT	12dicloropra	0.2866	0.2563	10.57	104	0.00
52	T	23dicl1propene	0.3651	0.3357	8.05	113	0.00
53	T	Dibromometha	0.1441	0.1441	0.00	116	0.00
54	T	methylmethacrylate	0.1352	0.1178	12.87	105	0.00
55	T	14dioxane	0.0024	0.0023#	4.17	105	0.00
56	T	Bromodiclrma	0.3337	0.3105	6.95	112	0.00
57	T	2Nitropropane	0.0603	0.0583	3.32	111	0.00
58	T	c13dicloproe	0.3935	0.3656	7.09	111	0.00
59	T	4Meth2Pentan	0.2324	0.2287	1.59	109	0.00
60	S	SURRd8Tolule	0.9998	1.0083	-0.85	116	0.00
61	CT	Toluene	0.6895	0.6038	12.43	107	0.00
62	T	t13Dicloprop	0.3245	0.3041	6.29	110	0.00
63	T	ethylmethacrylate	0.2835	0.2774	2.15	116	0.00
64	T	112Triclotha	0.1890	0.1802	4.66	115	0.00
65	T	Tetrachlorte	0.3120	0.2635	15.54	105	0.00
66	T	13Diclorpropa	0.3569	0.3318	7.03	109	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	117	0.00
68	T	2Hexanone	0.2033	0.2075	-2.07	114	0.00
69	T	Clorodibrmta	0.3400	0.3189	6.21	117	0.00
70	T	12Dibrometha	0.2922	0.2767	5.30	108	0.00
71	PT	Chlorobenzen	0.9583	0.8439	11.94	109	0.00
72	T	1Clhexane	0.4187	0.3579	14.52	101	0.00
73	T	1112Tetclota	0.3552	0.3189	10.22	112	0.00
74	CT	Ethylbenzene	1.5565	1.3697	12.00	108	0.00
75	T	m p-Xylene	0.6162	0.5413	12.16	107	0.00
76	T	o-Xylene	0.6249	0.5537	11.39	109	0.00
77	T	Styrene	0.9663	0.8721	9.75	110	0.00
78	PT	Bromoform	0.2145	0.2003	6.62	116	0.00
79	T	Isopropylben	1.5830	1.4313	9.58	109	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	121	0.00
81	T	cyclohexanone	0.0215	0.0204	5.12	110	0.00
82	S	SURR4BrFBenz	0.8202	0.8239	-0.45	121	0.00
83	T	Bromobenzene	0.8046	0.7346	8.70	111	0.00
84	PT	1122Tetrclta	0.7038	0.6660	5.37	112	0.00
85	T	123Triclproa	0.8231	0.7884	4.22	114	0.00
86	T	14dichloro2butene	0.2042	0.2074	-1.57	116	0.00
87	T	n-Propylbenz	3.1519	2.7647	12.28	104	0.00
88	T	2chlorotolue	1.9045	1.7013	10.67	111	0.00
89	T	4chlorotolue	2.1355	1.9173	10.22	108	0.00
90	T	135Trimebenz	2.3831	2.1542	9.61	110	0.00
91	T	tbutylbenzen	2.1028	1.8944	9.91	108	0.00
92	T	124Trimetben	2.4360	2.1960	9.85	111	0.00
93	T	sbutylbenzen	3.0572	2.7704	9.38	107	0.00
94	T	13Diclorbenz	1.5018	1.3416	10.67	113	0.00
95	T	pIsopropylto	2.5538	2.2743	10.94	105	0.00
96	T	14dichlorobe	1.4865	1.3417	9.74	113	0.00
97	T	12dichlorobe	1.4468	1.3263	8.33	114	0.00
98	T	nButylbenzen	2.2235	1.9316	13.13	106	0.00
99	T	12dibromo3cl	0.1511	0.1432	5.23	113	0.00
100	T	135Trichlorobenzene	1.1030	0.9957	9.73	112	0.00
101	T	124Trichlobe	0.9853	0.9521	3.37	121	0.00
102	T	Hexachlorobu	0.5975	0.5430	9.12	107	0.00
103	T	Naphthalene	2.2171	2.2650	-2.16	123	0.00
104	T	123Trichlben	0.9639	0.9420	2.27	120	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 13:06:04 2019

Evaluate Continuing Calibration Report

Data File : c:\instarch\data\nov1219b\CCV1.D Vial: 2
Acq On : 12 Nov 2019 16:50 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 12 17:11:01 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	0.0200	0.0200	0.00	116	0.00
2	T	Dichlorodi	0.0100	0.0083	17.00	97	0.00
3	PT	Chloromethan	0.0100	0.0087	13.00	109	0.00
4	CT	VinylChlorid	0.0100	0.0082	18.00	99	0.00
5	T	Bromomethane	0.0100	0.0088	12.00	87	0.01
6	T	Chloroethane	0.0100	0.0082	18.00	103	0.01
7	T	dichloroflmethane	0.0100	0.0084	16.00	100	0.00
8	T	Trichlorofma	0.0100	0.0087	13.00	97	0.00
9	T	Ethylether	0.0100	0.0096	4.00	113	0.00
10	T	dichlorotfluoroethan	0.0100	0.0086	14.00	99	0.00
11	T	propyleneoxide	0.1000	0.0966	3.40	102	0.00
12	T	Acrolein	0.0500	0.0491	1.80	111	0.00
13	CT	11dichlorthe	0.0100	0.0086	14.00	101	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0180	10.00	102	0.00
15	T	Acetone	0.1000	0.0932	6.80	110	0.00
16	T	Iodomethane	0.0200	0.0222	-11.00	168	0.00
17	T	Carbon Dislf	0.0200	0.0168	16.00	101	0.00
18	T	allylchloride	0.0200	0.0174	13.00	105	0.00
19	T	methylacetate	0.0100	0.0097	3.00	114	0.00
20	T	Methylchlorid	0.0100	0.0089	11.00	112	0.00
21	T	Acrylonitrile	0.0500	0.0469	6.20	103	0.00
22	T	t12dichlorte	0.0100	0.0083	17.00	101	0.00
23	T	tbutylalcohol	0.5000	0.4735	5.30	107	0.00
24	T	MtBE	0.0100	0.0095	5.00	112	0.00
25	T	Hexane	0.0200	0.0167	16.50	101	0.00
26	PT	11dichlorota	0.0100	0.0086	14.00	104	0.00
27	T	Vinylacetate	0.1000	0.1060	-6.00	112	0.00
28	T	chloroprene	0.0200	0.0175	12.50	102	0.00
29	T	Diisopether	0.0100	0.0094	6.00	112	0.00
30	T	ETBE	0.0100	0.0098	2.00	118	0.00
31	T	22dichloropr	0.0100	0.0087	13.00	103	0.00
32	T	c12dichlorte	0.0100	0.0088	12.00	107	0.00
33	T	2Butanone	0.1000	0.0969	3.10	110	0.00
34	T	propionitrile	0.1000	0.0923	7.70	109	0.00
35	T	Ethylacetate	0.0500	0.0474	5.20	103	0.00
36	T	methacrylonitrile	0.0200	0.0185	7.50	104	0.00
37	T	Bromochlorma	0.0100	0.0101	-1.00	115	0.00
38	T	Tetrahydofur	0.1000	0.0942	5.80	105	0.00
39	CT	Chloroform	0.0100	0.0090	10.00	108	0.00
40	T	111trichlota	0.0100	0.0087	13.00	104	0.00
41	S	SURRDibrflma	0.0200	0.0206	-3.00	120	0.00
42	T	Cyclohexane	0.0100	0.0089	11.00	103	0.00
43	T	Carbtetraclo	0.0100	0.0088	12.00	103	0.00
44	T	11dicloprope	0.0100	0.0086	14.00	103	-0.01
45	S	SURR12DCAd4	0.0200	0.0204	-2.00	111	0.00
46	T	Benzene	0.0100	0.0089	11.00	105	0.00
47	T	12dichlorota	0.0100	0.0094	6.00	111	0.00
48	T	TAME	0.0100	0.0097	3.00	119	0.00

49	T	trichloroete	0.0100	0.0083	17.00	105	0.00
50	T	methylcyclohexane	0.0100	0.0090	10.00	102	0.00
51	CT	12dicloropra	0.0100	0.0089	11.00	104	0.00
52	T	23dicl1propene	0.0100	0.0092	8.00	113	0.00
53	T	Dibromometha	0.0100	0.0100	0.00	116	0.00
54	T	methylmethacrylate	0.0100	0.0087	13.00	105	0.00
55	T	14dioxane	0.5000	0.4614	7.72	105	0.00
56	T	Bromodiclrma	0.0100	0.0093	7.00	112	0.00
57	T	2Nitropropane	0.1000	0.0967	3.30	111	0.00
58	T	c13dicloproe	0.0100	0.0093	7.00	111	0.00
59	T	4Meth2Pentan	0.1000	0.0984	1.60	109	0.00
60	S	SURRd8Tolule	0.0200	0.0202	-1.00	116	0.00
61	CT	Toluene	0.0100	0.0088	12.00	107	0.00
62	T	t13Dicloprop	0.0100	0.0094	6.00	110	0.00
63	T	ethylmethacrylate	0.0200	0.0196	2.00	116	0.00
64	T	112Triclotha	0.0100	0.0095	5.00	115	0.00
65	T	Tetrachlorte	0.0100	0.0084	16.00	105	0.00
66	T	13Diclorpropa	0.0100	0.0093	7.00	109	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	117	0.00
68	T	2Hexanone	0.1000	0.1021	-2.10	114	0.00
69	T	Clorodibrmta	0.0100	0.0094	6.00	117	0.00
70	T	12Dibrometha	0.0100	0.0095	5.00	108	0.00
71	PT	Chlorobenzen	0.0100	0.0088	12.00	109	0.00
72	T	1Clhexane	0.0100	0.0085	15.00	101	0.00
73	T	1112Tetclota	0.0100	0.0090	10.00	112	0.00
74	CT	Ethylbenzene	0.0100	0.0088	12.00	108	0.00
75	T	m p-Xylene	0.0200	0.0176	12.00	107	0.00
76	T	o-Xylene	0.0100	0.0089	11.00	109	0.00
77	T	Styrene	0.0100	0.0090	10.00	110	0.00
78	PT	Bromoform	0.0100	0.0093	7.00	116	0.00
79	T	Isopropylben	0.0100	0.0090	10.00	109	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	121	0.00
81	T	cyclohexanone	0.2000	0.1903	4.85	110	0.00
82	S	SURR4BrFBenz	0.0200	0.0201	-0.50	121	0.00
83	T	Bromobenzene	0.0100	0.0091	9.00	111	0.00
84	PT	1122Tetrclta	0.0100	0.0095	5.00	112	0.00
85	T	123Triclproa	0.0100	0.0096	4.00	114	0.00
86	T	14dichloro2butene	0.0100	0.0102	-2.00	116	0.00
87	T	n-Propylbenz	0.0100	0.0088	12.00	104	0.00
88	T	2chlorotolue	0.0100	0.0089	11.00	111	0.00
89	T	4chlorotolue	0.0100	0.0090	10.00	108	0.00
90	T	135Trimebenz	0.0100	0.0090	10.00	110	0.00
91	T	tbutylbenzen	0.0100	0.0090	10.00	108	0.00
92	T	124Trimetben	0.0100	0.0090	10.00	111	0.00
93	T	sbutylbenzen	0.0100	0.0091	9.00	107	0.00
94	T	13Diclorbenz	0.0100	0.0089	11.00	113	0.00
95	T	pIsopropylto	0.0100	0.0089	11.00	105	0.00
96	T	14dichlorobe	0.0100	0.0090	10.00	113	0.00
97	T	12dichlorobe	0.0100	0.0092	8.00	114	0.00
98	T	nButylbenzen	0.0100	0.0087	13.00	106	0.00
99	T	12dibromo3cl	0.0100	0.0095	5.00	113	0.00
100	T	135Trichlorobenzene	0.0100	0.0090	10.00	112	0.00
101	T	124Trichlobe	0.0100	0.0097	3.00	121	0.00
102	T	Hexachlorobu	0.0100	0.0091	9.00	107	0.00
103	T	Naphthalene	0.0100	0.0102	-2.00	123	0.00
104	T	123Trichlben	0.0100	0.0098	2.00	120	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 13:06:27 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCV1.D Vial: 2
Acq On : 12 Nov 2019 16:50 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 17:11:01 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 16:00:11 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1029410	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.58	117	807503	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	449087	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	260431	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.24	102	54528	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.67	98	1037924	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	370006	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	113127	0.0083	mg/kg	96
3) Chloromethan	2.06	50	154409	0.0087	mg/kg	97
4) VinylChlorid	2.21	62	126459	0.0082	mg/kg	98
5) Bromomethane	2.68	94	74572	0.0088	mg/kg	96
6) Chloroethane	2.84	64	73616	0.0082	mg/kg	98
7) dichloroflmethane	3.14	67	189265	0.0084	mg/kg	98
8) Trichlorofma	3.21	101	169498	0.0087	mg/kg	99
9) Ethylether	3.66	59	103212	0.0096	mg/kg	97
10) dichlorotfluoroethan	3.67	67	117309	0.0086	mg/kg	95
11) propyleneoxide	3.72	58	174870	0.0966	mg/kg	99
12) Acrolein	3.82	56	117806	0.0491	mg/kg	97
13) 11dichlorthe	3.94	96	102556	0.0086	mg/kg	98
14) Trichlorotfluoroeth	3.97	101	197373	0.0180	mg/kg	97
15) Acetone	4.03	43	319787	0.0932	mg/kg	98
16) Iodomethane	4.12	142	156637	0.0222	mg/kg	98
17) Carbon Dislf	4.20	76	591605	0.0168	mg/kg	99
18) allylchloride	4.43	41	418586	0.0174	mg/kg	99
19) methylacetate	4.50	74	36669	0.0097	mg/kg	95
20) Methylchlorid	4.60	84	135874	0.0089	mg/kg	98
21) Acrylonitrile	4.93	53	174541	0.0469	mg/kg	96
22) t12dichlorte	4.96	96	112723	0.0083	mg/kg	97
23) tbutylalcohol	4.80	59	684472	0.4735	mg/kg	98
24) MtBE	4.97	73	311966	0.0095	mg/kg	96
25) Hexane	5.33	57	332899	0.0167	mg/kg	98
26) 11dichlorota	5.49	63	213051	0.0086	mg/kg	99
27) Vinylacetate	5.59	43	2154740	0.1060	mg/kg	99
28) chloroprene	5.61	53	342363	0.0175	mg/kg	98
29) Diisopether	5.61	45	431574	0.0094	mg/kg	99
30) ETBE	6.06	59	385328	0.0098	mg/kg	98
31) 22dichloropr	6.22	77	159879	0.0087	mg/kg	99
32) c12dichlorte	6.24	96	132209	0.0088	mg/kg	99
33) 2Butanone	6.26	72	109821	0.0969	mg/kg	93
34) propionitrile	6.34	54	136580	0.0923	mg/kg	95
35) Ethylacetate	6.35	88	16759	0.0474	mg/kg#	94
36) methacrylonitrile	6.52	67	78782	0.0185	mg/kg	97
37) Bromochlorma	6.53	128	67627	0.0101	mg/kg	96
38) Tetrahydofur	6.59	42	335777	0.0942	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCV1.D Vial: 2
Acq On : 12 Nov 2019 16:50 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 17:11:01 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 16:00:11 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.63	83	207234	0.0090	mg/kg	95
40)	111trichlota	6.85	97	176163	0.0087	mg/kg	95
42)	Cyclohexane	6.92	56	190802	0.0089	mg/kg	98
43)	Carbtetraclo	7.06	119	147680	0.0088	mg/kg	100
44)	11dicloprope	7.06	110	55280	0.0086	mg/kg	98
46)	Benzene	7.31	78	472804	0.0089	mg/kg	98
47)	12dichlorota	7.34	62	156213	0.0094	mg/kg	96
48)	TAME	7.46	73	317890	0.0097	mg/kg	97
49)	trichloroete	8.12	95	114230	0.0083	mg/kg	99
50)	methylcyclohexane	8.36	83	205944	0.0090	mg/kg	99
51)	12dicloropra	8.39	63	131933	0.0089	mg/kg	94
52)	23dicl1propene	8.46	75	172805	0.0092	mg/kg	98
53)	Dibromometha	8.54	93	74180	0.0100	mg/kg	90
54)	methylmethacrylate	8.56	69	60611	0.0087	mg/kg	92
55)	14dioxane	8.58	88	58166	0.4614	mg/kg	97
56)	Bromodiclrma	8.74	83	159806	0.0093	mg/kg	96
57)	2Nitropropane	9.02	43	300031	0.0967	mg/kg	99
58)	c13dicloproe	9.32	75	188151	0.0093	mg/kg	95
59)	4Meth2Pentan	9.51	43	1177237	0.0984	mg/kg	99
61)	Toluene	9.75	92	310760	0.0088	mg/kg	100
62)	t13Dicloprop	10.04	75	156529	0.0094	mg/kg	98
63)	ethylmethacrylate	10.17	69	285569	0.0196	mg/kg	99
64)	112Triclotha	10.27	83	92752	0.0095	mg/kg	96
65)	Tetrachlorte	10.48	166	135650	0.0084	mg/kg	99
66)	13Diclorpropa	10.50	76	170789	0.0093	mg/kg	98
68)	2Hexanone	10.61	43	837729	0.1021	mg/kg	99
69)	Clorodibrmta	10.79	129	128748	0.0094	mg/kg	98
70)	12Dibrometha	10.96	107	111716	0.0095	mg/kg	93
71)	Chlorobenzen	11.63	112	340710	0.0088	mg/kg	96
72)	1Clhexane	11.59	91	144506	0.0085	mg/kg	97
73)	1112Tetclota	11.73	131	128746	0.0090	mg/kg	98
74)	Ethylbenzene	11.78	91	553033	0.0088	mg/kg	98
75)	m p-Xylene	11.94	106	437092	0.0176	mg/kg	100
76)	o-Xylene	12.50	106	223573	0.0089	mg/kg	98
77)	Styrene	12.51	104	352124	0.0090	mg/kg	99
78)	Bromoform	12.76	173	80880	0.0093	mg/kg	97
79)	Isopropylben	13.01	105	577880	0.0090	mg/kg	98
81)	cyclohexanone	13.13	55	91670	0.1903	mg/kg	99
83)	Bromobenzene	13.44	156	164946	0.0091	mg/kg	97
84)	1122Tetrclta	13.43	83	149556	0.0095	mg/kg	99
85)	123Triclproa	13.48	75	177027	0.0096	mg/kg	98
86)	14dichloro2butene	13.51	53	46565	0.0102	mg/kg	95
87)	n-Propylbenz	13.60	91	620785	0.0088	mg/kg	100
88)	2chlorotolue	13.72	91	382020	0.0089	mg/kg	100
89)	4chlorotolue	13.88	91	430509	0.0090	mg/kg	98
90)	135Trimebenz	13.85	105	483721	0.0090	mg/kg	98
91)	tbutylbenzen	14.33	119	425375	0.0090	mg/kg	99
92)	124Trimetben	14.39	105	493100	0.0090	mg/kg	98
93)	sbutylbenzen	14.64	105	622085	0.0091	mg/kg	99
94)	13Diclorbenz	14.79	146	301237	0.0089	mg/kg	99
95)	pIsopropylto	14.86	119	510679	0.0089	mg/kg	99
96)	14dichlorobe	14.93	146	301268	0.0090	mg/kg	99
97)	12dichlorobe	15.46	146	297815	0.0092	mg/kg	100
98)	nButylbenzen	15.46	91	433728	0.0087	mg/kg	99
99)	12dibromo3cl	16.58	157	32159	0.0095	mg/kg	93
100)	135Trichlorobenzene	16.88	180	223584	0.0090	mg/kg	99
101)	124Trichlobe	17.70	180	213782	0.0097	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

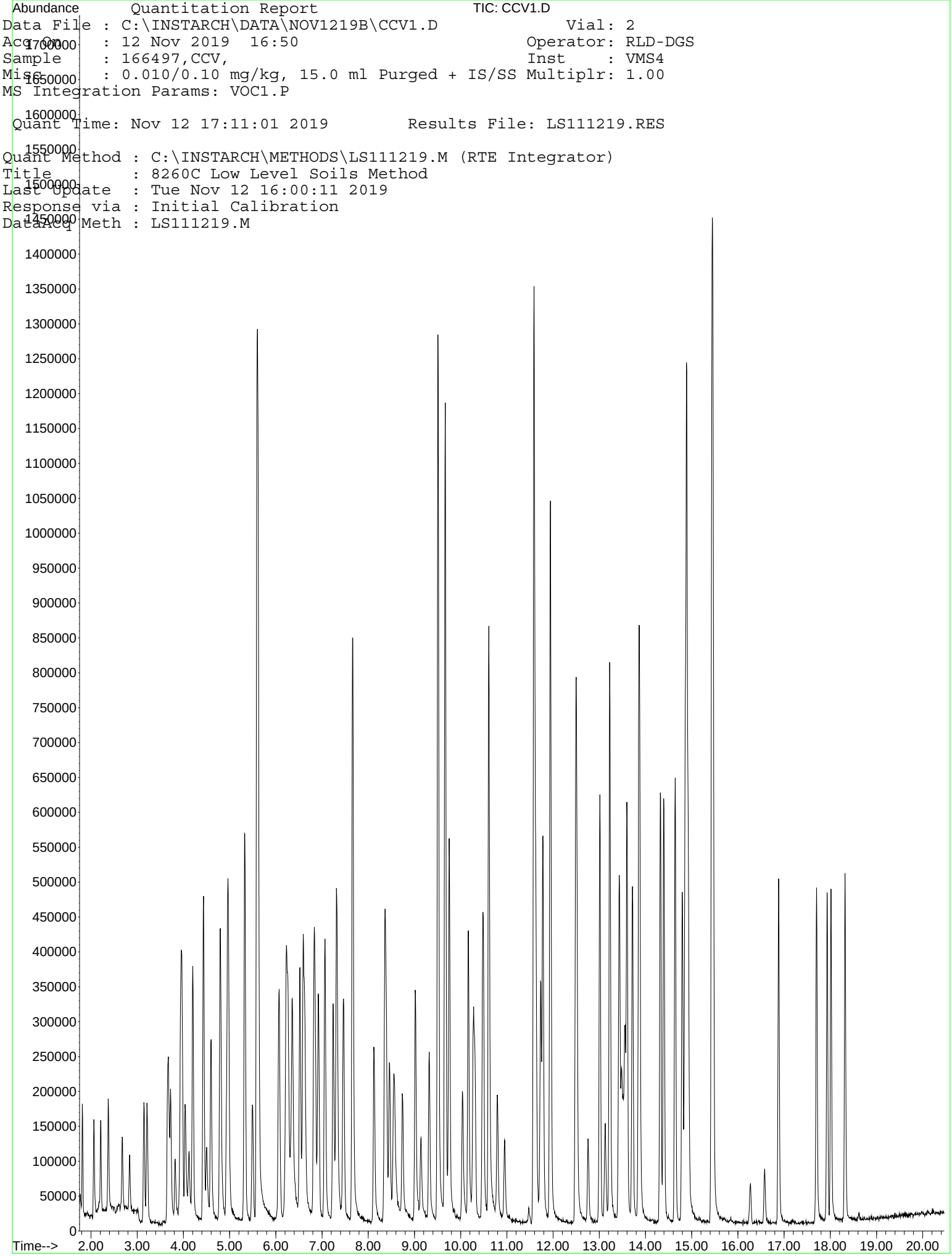
Data File : C:\INSTARCH\DATA\NOV1219B\CCV1.D Vial: 2
Acq On : 12 Nov 2019 16:50 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 17:11:01 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 16:00:11 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	121932	0.0091	mg/kg	99
103)	Naphthalene	18.01	128	508591	0.0102	mg/kg	98
104)	123Trichlben	18.32	180	211519	0.0098	mg/kg	99

(#) = qualifier out of range (m) = manual integration


Abundance
Quantitation Report
TIC: CCV1.D
Data File : C:\INSTARCH\DATA\NOV1219B\CCV1.D
Vial: 2
Acq On : 12 Nov 2019 16:50
Operator: RLD-DGS
Sample : 166497,CCV,
Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC1.P
Quant Time: Nov 12 17:11:01 2019
Results File: LS111219.RES
Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 16:00:11 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
Time-->

Evaluate Continuing Calibration Report

Data File : c:\instarch\data\nov1219b\CCVF1.D Vial: 26
Acq On : 13 Nov 2019 4:26 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 13 04:47:15 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	105	0.00
2	T	Dichlorodi	0.2663	0.2768	-3.94	111	0.00
3	PT	Chloromethan	0.3437	0.3783	-10.07	126	0.00
4	CT	VinylChlorid	0.3001	0.3180	-5.96	117	0.00
5	T	Bromomethane	0.1613	0.1253	22.32	69	0.00
6	T	Chloroethane	0.1746	0.1766	-1.15	116	0.00
7	T	dichloroflmethane	0.4366	0.4616	-5.73	115	0.00
8	T	Trichlorofma	0.3783	0.4070	-7.59	109	0.00
9	T	Ethylether	0.2091	0.2122	-1.48	109	0.00
10	T	dichlorotfluoroethan	0.2664	0.2745	-3.04	109	0.00
11	T	propyleneoxide	0.0352	0.0286	18.75	78	0.00
12	T	Acrolein	0.0466	0.0416	10.73	92	0.00
13	CT	11dichlorthe	0.2315	0.2492	-7.65	115	0.00
14	T	Trichlorotfluoroeth	0.2134	0.2330	-9.18	113	0.00
15	T	Acetone	0.0667	0.0608	8.85	98	0.00
16	T	Iodomethane	0.1640	0.1521	7.26	153	0.00
17	T	Carbon Dislf	0.6828	0.7077	-3.65	114	0.00
18	T	allylchloride	0.4665	0.4595	1.50	108	0.00
19	T	methylacetate	0.0737	0.0670	9.09	97	0.00
20	T	Methylchlorid	0.3214	0.3116	3.05	120	0.00
21	T	Acrylonitrile	0.0723	0.0667	7.75	93	0.00
22	T	t12dichlorte	0.2642	0.2626	0.61	110	0.00
23	T	tbutylalcohol	0.0281	0.0248	11.74	91	0.00
24	T	MtBE	0.6350	0.6284	1.04	106	0.00
25	T	Hexane	0.3865	0.3759	2.74	107	0.00
26	PT	11dichlorota	0.4792	0.4784	0.17	110	0.00
27	T	Vinylacetate	0.3950	0.4328	-9.57	105	0.00
28	T	chloroprene	0.3802	0.4029	-5.97	112	0.00
29	T	Diisopether	0.8907	0.9596	-7.74	117	0.00
30	T	ETBE	0.7673	0.8058	-5.02	116	0.00
31	T	22dichloropr	0.3568	0.3492	2.13	105	0.00
32	T	c12dichlorte	0.2926	0.3008	-2.80	114	0.00
33	T	2Butanone	0.0220	0.0205	6.82	96	0.00
34	T	propionitrile	0.0288	0.0249	13.54	93	0.00
35	T	Ethylacetate	0.0069	0.0058#	15.94	84	0.00
36	T	methacrylonitrile	0.0829	0.0782	5.67	97	0.00
37	T	Bromochlorma	0.1302	0.1345	-3.30	107	0.00
38	T	Tetrahydofur	0.0692	0.0647	6.50	95	0.00
39	CT	Chloroform	0.4454	0.4637	-4.11	113	0.00
40	T	111trichlota	0.3939	0.4154	-5.46	115	0.00
41	S	SURRDibrflma	0.2461	0.2589	-5.20	112	0.00
42	T	Cyclohexane	0.4160	0.4480	-7.69	113	0.00
43	T	Carbtetraclo	0.3272	0.3283	-0.34	107	0.00
44	T	11dicloprope	0.1251	0.1286	-2.80	112	0.00
45	S	SURR12DCAd4	0.0520	0.0560	-7.69	107	-0.01
46	T	Benzene	1.0359	1.0686	-3.16	112	0.00
47	T	12dichlorota	0.3217	0.3231	-0.44	108	0.00
48	T	TAME	0.6374	0.6522	-2.32	114	0.00

49	T	trichloroete	0.2661	0.2706	-1.69	116	0.00
50	T	methylcyclohexane	0.4426	0.4718	-6.60	109	0.00
51	CT	12dicloropra	0.2866	0.2972	-3.70	110	0.00
52	T	23dicl1propene	0.3651	0.3535	3.18	108	0.00
53	T	Dibromometha	0.1441	0.1516	-5.20	111	0.00
54	T	methylmethacrylate	0.1352	0.1240	8.28	100	0.01
55	T	14dioxane	0.0024	0.0021#	12.50	88	0.00
56	T	Bromodiclrma	0.3337	0.3309	0.84	109	0.00
57	T	2Nitropropane	0.0603	0.0556	7.79	97	0.00
58	T	c13dicloproe	0.3935	0.3916	0.48	108	0.00
59	T	4Meth2Pentan	0.2324	0.2271	2.28	99	0.00
60	S	SURRd8Tolule	0.9998	1.0261	-2.63	108	0.00
61	CT	Toluene	0.6895	0.6846	0.71	110	0.00
62	T	t13Dicloprop	0.3245	0.3188	1.76	105	0.00
63	T	ethylmethacrylate	0.2835	0.2777	2.05	106	0.00
64	T	112Triclotha	0.1890	0.1891	-0.05	110	0.00
65	T	Tetrachlorte	0.3120	0.3098	0.71	112	0.00
66	T	13Diclorpropa	0.3569	0.3619	-1.40	108	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	109	0.00
68	T	2Hexanone	0.2033	0.1912	5.95	97	0.00
69	T	Clorodibrmta	0.3400	0.3342	1.71	113	0.00
70	T	12Dibrometha	0.2922	0.2880	1.44	104	0.00
71	PT	Chlorobenzen	0.9583	0.9256	3.41	111	0.00
72	T	1Clhexane	0.4187	0.4019	4.01	105	0.00
73	T	1112Tetclota	0.3552	0.3474	2.20	113	0.00
74	CT	Ethylbenzene	1.5565	1.5200	2.35	112	0.00
75	T	m p-Xylene	0.6162	0.5818	5.58	106	0.00
76	T	o-Xylene	0.6249	0.6027	3.55	110	0.00
77	T	Styrene	0.9663	0.9310	3.65	109	0.00
78	PT	Bromoform	0.2145	0.2015	6.06	108	0.00
79	T	Isopropylben	1.5830	1.5648	1.15	111	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	112	0.00
81	T	cyclohexanone	0.0215	0.0168	21.86	84	0.00
82	S	SURR4BrFBenz	0.8202	0.8170	0.39	111	0.00
83	T	Bromobenzene	0.8046	0.7459	7.30	104	0.00
84	PT	1122Tetrclta	0.7038	0.6570	6.65	103	0.00
85	T	123Triclproa	0.8231	0.8471	-2.92	114	0.00
86	T	14dichloro2butene	0.2042	0.1747	14.45	91	0.00
87	T	n-Propylbenz	3.1519	2.9077	7.75	102	0.00
88	T	2chlorotolue	1.9045	1.7519	8.01	106	0.00
89	T	4chlorotolue	2.1355	2.0157	5.61	105	0.00
90	T	135Trimebenz	2.3831	2.2195	6.87	105	0.00
91	T	tbutylbenzen	2.1028	2.0251	3.70	107	0.00
92	T	124Trimetben	2.4360	2.3041	5.41	108	0.00
93	T	sbutylbenzen	3.0572	2.9503	3.50	106	0.00
94	T	13Diclorbenz	1.5018	1.3891	7.50	108	0.00
95	T	pIsopropylto	2.5538	2.4295	4.87	104	0.00
96	T	14dichlorobe	1.4865	1.3813	7.08	107	0.00
97	T	12dichlorobe	1.4468	1.3680	5.45	109	0.00
98	T	nButylbenzen	2.2235	2.0548	7.59	104	0.00
99	T	12dibromo3cl	0.1511	0.1279	15.35	94	0.00
100	T	135Trichlorobenzene	1.1030	0.9334	15.38	97	0.00
101	T	124Trichlobe	0.9853	0.8552	13.20	100	0.00
102	T	Hexachlorobu	0.5975	0.5690	4.77	103	0.00
103	T	Naphthalene	2.2171	1.9677	11.25	99	0.00
104	T	123Trichlben	0.9639	0.8732	9.41	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 13:08:41 2019

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF1.D Vial: 26
Acq On : 13 Nov 2019 4:26 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 13 04:47:15 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	0.0200	0.0200	0.00	105	0.00
2	T	Dichlorodi	0.0100	0.0104	-4.00	111	0.00
3	PT	Chloromethan	0.0100	0.0110	-10.00	126	0.00
4	CT	VinylChlorid	0.0100	0.0106	-6.00	117	0.00
5	T	Bromomethane	0.0100	0.0074	26.00#	69	0.00
6	T	Chloroethane	0.0100	0.0101	-1.00	116	0.00
7	T	dichloroflmethane	0.0100	0.0106	-6.00	115	0.00
8	T	Trichlorofma	0.0100	0.0108	-8.00	109	0.00
9	T	Ethylether	0.0100	0.0101	-1.00	109	0.00
10	T	dichlorotfluoroethan	0.0100	0.0103	-3.00	109	0.00
11	T	propyleneoxide	0.1000	0.0812	18.80	78	0.00
12	T	Acrolein	0.0500	0.0447	10.60	92	0.00
13	CT	11dichlorthe	0.0100	0.0108	-8.00	115	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0218	-9.00	113	0.00
15	T	Acetone	0.1000	0.0911	8.90	98	0.00
16	T	Iodomethane	0.0200	0.0222	-11.00	153	0.00
17	T	Carbon Dislf	0.0200	0.0207	-3.50	114	0.00
18	T	allylchloride	0.0200	0.0197	1.50	108	0.00
19	T	methylacetate	0.0100	0.0091	9.00	97	0.00
20	T	Methylchlorid	0.0100	0.0107	-7.00	120	0.00
21	T	Acrylonitrile	0.0500	0.0461	7.80	93	0.00
22	T	t12dichlorte	0.0100	0.0099	1.00	110	0.00
23	T	tbutylalcohol	0.5000	0.4410	11.80	91	0.00
24	T	MtBE	0.0100	0.0099	1.00	106	0.00
25	T	Hexane	0.0200	0.0195	2.50	107	0.00
26	PT	11dichlorota	0.0100	0.0100	0.00	110	0.00
27	T	Vinylacetate	0.1000	0.1096	-9.60	105	0.00
28	T	chloroprene	0.0200	0.0212	-6.00	112	0.00
29	T	Diisopether	0.0100	0.0108	-8.00	117	0.00
30	T	ETBE	0.0100	0.0105	-5.00	116	0.00
31	T	22dichloropr	0.0100	0.0098	2.00	105	0.00
32	T	c12dichlorte	0.0100	0.0103	-3.00	114	0.00
33	T	2Butanone	0.1000	0.0933	6.70	96	0.00
34	T	propionitrile	0.1000	0.0867	13.30	93	0.00
35	T	Ethylacetate	0.0500	0.0422	15.60	84	0.00
36	T	methacrylonitrile	0.0200	0.0189	5.50	97	0.00
37	T	Bromochlorma	0.0100	0.0103	-3.00	107	0.00
38	T	Tetrahydofur	0.1000	0.0935	6.50	95	0.00
39	CT	Chloroform	0.0100	0.0104	-4.00	113	0.00
40	T	111trichlota	0.0100	0.0105	-5.00	115	0.00
41	S	SURRDibrflma	0.0200	0.0210	-5.00	112	0.00
42	T	Cyclohexane	0.0100	0.0108	-8.00	113	0.00
43	T	Carbtetraclo	0.0100	0.0100	0.00	107	0.00
44	T	11dicloprope	0.0100	0.0103	-3.00	112	0.00
45	S	SURR12DCAd4	0.0200	0.0216	-8.00	107	-0.01
46	T	Benzene	0.0100	0.0103	-3.00	112	0.00
47	T	12dichlorota	0.0100	0.0100	0.00	108	0.00
48	T	TAME	0.0100	0.0102	-2.00	114	0.00

49	T	trichloroete	0.0100	0.0102	-2.00	116	0.00
50	T	methylcyclohexane	0.0100	0.0107	-7.00	109	0.00
51	CT	12dicloropra	0.0100	0.0104	-4.00	110	0.00
52	T	23dicl1propene	0.0100	0.0097	3.00	108	0.00
53	T	Dibromometha	0.0100	0.0105	-5.00	111	0.00
54	T	methylmethacrylate	0.0100	0.0092	8.00	100	0.01
55	T	14dioxane	0.5000	0.4243	15.14	88	0.00
56	T	Bromodiclrma	0.0100	0.0099	1.00	109	0.00
57	T	2Nitropropane	0.1000	0.0923	7.70	97	0.00
58	T	c13dicloproe	0.0100	0.0100	0.00	108	0.00
59	T	4Meth2Pentan	0.1000	0.0977	2.30	99	0.00
60	S	SURRd8Tolule	0.0200	0.0205	-2.50	108	0.00
61	CT	Toluene	0.0100	0.0099	1.00	110	0.00
62	T	t13Dicloprop	0.0100	0.0098	2.00	105	0.00
63	T	ethylmethacrylate	0.0200	0.0196	2.00	106	0.00
64	T	112Triclotha	0.0100	0.0100	0.00	110	0.00
65	T	Tetrachlorte	0.0100	0.0099	1.00	112	0.00
66	T	13Diclorpropa	0.0100	0.0101	-1.00	108	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	109	0.00
68	T	2Hexanone	0.1000	0.0941	5.90	97	0.00
69	T	Clorodibrmta	0.0100	0.0098	2.00	113	0.00
70	T	12Dibrometha	0.0100	0.0099	1.00	104	0.00
71	PT	Chlorobenzen	0.0100	0.0097	3.00	111	0.00
72	T	1Clhexane	0.0100	0.0096	4.00	105	0.00
73	T	1112Tetclota	0.0100	0.0098	2.00	113	0.00
74	CT	Ethylbenzene	0.0100	0.0098	2.00	112	0.00
75	T	m p-Xylene	0.0200	0.0189	5.50	106	0.00
76	T	o-Xylene	0.0100	0.0096	4.00	110	0.00
77	T	Styrene	0.0100	0.0096	4.00	109	0.00
78	PT	Bromoform	0.0100	0.0094	6.00	108	0.00
79	T	Isopropylben	0.0100	0.0099	1.00	111	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	112	0.00
81	T	cyclohexanone	0.2000	0.1565	21.75	84	0.00
82	S	SURR4BrFBenz	0.0200	0.0199	0.50	111	0.00
83	T	Bromobenzene	0.0100	0.0093	7.00	104	0.00
84	PT	1122Tetrclta	0.0100	0.0093	7.00	103	0.00
85	T	123Triclproa	0.0100	0.0103	-3.00	114	0.00
86	T	14dichloro2butene	0.0100	0.0086	14.00	91	0.00
87	T	n-Propylbenz	0.0100	0.0092	8.00	102	0.00
88	T	2chlorotolue	0.0100	0.0092	8.00	106	0.00
89	T	4chlorotolue	0.0100	0.0094	6.00	105	0.00
90	T	135Trimebenz	0.0100	0.0093	7.00	105	0.00
91	T	tbutylbenzen	0.0100	0.0096	4.00	107	0.00
92	T	124Trimetben	0.0100	0.0095	5.00	108	0.00
93	T	sbutylbenzen	0.0100	0.0097	3.00	106	0.00
94	T	13Diclorbenz	0.0100	0.0092	8.00	108	0.00
95	T	pIsopropylto	0.0100	0.0095	5.00	104	0.00
96	T	14dichlorobe	0.0100	0.0093	7.00	107	0.00
97	T	12dichlorobe	0.0100	0.0095	5.00	109	0.00
98	T	nButylbenzen	0.0100	0.0092	8.00	104	0.00
99	T	12dibromo3cl	0.0100	0.0085	15.00	94	0.00
100	T	135Trichlorobenzene	0.0100	0.0085	15.00	97	0.00
101	T	124Trichlobe	0.0100	0.0087	13.00	100	0.00
102	T	Hexachlorobu	0.0100	0.0095	5.00	103	0.00
103	T	Naphthalene	0.0100	0.0089	11.00	99	0.00
104	T	123Trichlben	0.0100	0.0091	9.00	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 14:29:57 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF1.D Vial: 26
Acq On : 13 Nov 2019 4:26 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 04:47:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	937290	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	749152	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	415878	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	242632	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.23	102	52532	0.022	mg/kg	-0.01
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.67	98	961724	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.23	95	339754	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	129709	0.0104	mg/kg	95
3) Chloromethan	2.06	50	177279	0.0110	mg/kg	99
4) VinylChlorid	2.21	62	149009	0.0106	mg/kg	96
5) Bromomethane	2.68	94	58714	0.0074	mg/kg	97
6) Chloroethane	2.83	64	82758	0.0101	mg/kg	97
7) dichloroflmethane	3.14	67	216330	0.0106	mg/kg	98
8) Trichlorofma	3.21	101	190750	0.0108	mg/kg	99
9) Ethylether	3.66	59	99440	0.0101	mg/kg	97
10) dichlorotfluoroethan	3.68	67	128639	0.0103	mg/kg	94
11) propyleneoxide	3.72	58	133841	0.0812	mg/kg	100
12) Acrolein	3.82	56	97558	0.0447	mg/kg	100
13) 11dichlorthe	3.93	96	116790	0.0108	mg/kg	99
14) Trichlorotfluoroeth	3.96	101	218363	0.0218	mg/kg	96
15) Acetone	4.04	43	284761	0.0911	mg/kg	99
16) Iodomethane	4.12	142	142558	0.0222	mg/kg	95
17) Carbon Dislf	4.20	76	663323	0.0207	mg/kg	99
18) allylchloride	4.43	41	430720	0.0197	mg/kg	99
19) methylacetate	4.50	74	31400	0.0091	mg/kg	100
20) Methylchlorid	4.59	84	146030	0.0107	mg/kg	98
21) Acrylonitrile	4.93	53	156267	0.0461	mg/kg	98
22) t12dichlorte	4.96	96	123080	0.0099	mg/kg	98
23) tbutylalcohol	4.80	59	580523	0.4410	mg/kg	98
24) MtBE	4.98	73	294513	0.0099	mg/kg	96
25) Hexane	5.33	57	352299	0.0195	mg/kg	98
26) 11dichlorota	5.49	63	224210	0.0100	mg/kg	97
27) Vinylacetate	5.59	43	2028261	0.1096	mg/kg	99
28) chloroprene	5.61	53	377607	0.0212	mg/kg	99
29) Diisopether	5.61	45	449733	0.0108	mg/kg#	83
30) ETBE	6.07	59	377656	0.0105	mg/kg	98
31) 22dichloropr	6.22	77	163670	0.0098	mg/kg	99
32) c12dichlorte	6.24	96	140951	0.0103	mg/kg	96
33) 2Butanone	6.27	72	96285	0.0933	mg/kg	90
34) propionitrile	6.34	54	116830	0.0867	mg/kg	97
35) Ethylacetate	6.36	88	13572	0.0422	mg/kg#	75
36) methacrylonitrile	6.52	67	73341	0.0189	mg/kg	98
37) Bromochlorma	6.52	128	63023	0.0103	mg/kg	98
38) Tetrahydofur	6.59	42	303220	0.0935	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF1.D Vial: 26
Acq On : 13 Nov 2019 4:26 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 04:47:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.63	83	217332	0.0104	mg/kg	94
40)	111trichlota	6.86	97	194661	0.0105	mg/kg	95
42)	Cyclohexane	6.92	56	209951	0.0108	mg/kg	98
43)	Carbtetraclo	7.06	119	153856	0.0100	mg/kg	99
44)	11dicloprope	7.06	110	60288	0.0103	mg/kg	97
46)	Benzene	7.32	78	500794	0.0103	mg/kg	97
47)	12dichlorota	7.34	62	151416	0.0100	mg/kg	100
48)	TAME	7.46	73	305663	0.0102	mg/kg	97
49)	trichloroete	8.13	95	126823	0.0102	mg/kg	91
50)	methylcyclohexane	8.36	83	221116	0.0107	mg/kg	97
51)	12dicloropra	8.39	63	139303	0.0104	mg/kg	93
52)	23dicl1propene	8.46	75	165683	0.0097	mg/kg	93
53)	Dibromometha	8.55	93	71048	0.0105	mg/kg	91
54)	methylmethacrylate	8.57	69	58122	0.0092	mg/kg	96
55)	14dioxane	8.58	88	48703	0.4243	mg/kg	93
56)	Bromodiclrma	8.74	83	155092	0.0099	mg/kg	99
57)	2Nitropropane	9.02	43	260697	0.0923	mg/kg	97
58)	c13dicloproe	9.32	75	183541	0.0100	mg/kg	97
59)	4Meth2Pentan	9.51	43	1064443	0.0977	mg/kg	99
61)	Toluene	9.75	92	320827	0.0099	mg/kg	100
62)	t13Dicloprop	10.04	75	149395	0.0098	mg/kg	99
63)	ethylmethacrylate	10.17	69	260284	0.0196	mg/kg	97
64)	112Triclotha	10.27	83	88623	0.0100	mg/kg	97
65)	Tetrachlorte	10.48	166	145197	0.0099	mg/kg	97
66)	13Diclorpropa	10.49	76	169596	0.0101	mg/kg	99
68)	2Hexanone	10.61	43	716360	0.0941	mg/kg	98
69)	Clorodibrmta	10.80	129	125176	0.0098	mg/kg	98
70)	12Dibrometha	10.96	107	107867	0.0099	mg/kg	99
71)	Chlorobenzen	11.63	112	346723	0.0097	mg/kg	99
72)	1Clhexane	11.59	91	150553	0.0096	mg/kg	96
73)	1112Tetclota	11.73	131	130128	0.0098	mg/kg	98
74)	Ethylbenzene	11.78	91	569344	0.0098	mg/kg	99
75)	m p-Xylene	11.94	106	435867	0.0189	mg/kg	99
76)	o-Xylene	12.50	106	225750	0.0096	mg/kg	98
77)	Styrene	12.51	104	348725	0.0096	mg/kg	98
78)	Bromoform	12.76	173	75475	0.0094	mg/kg	94
79)	Isopropylben	13.01	105	586120	0.0099	mg/kg	99
81)	cyclohexanone	13.13	55	69814	0.1565	mg/kg	96
83)	Bromobenzene	13.44	156	155102	0.0093	mg/kg	93
84)	1122Tetrclta	13.43	83	136614	0.0093	mg/kg	99
85)	123Triclproa	13.49	75	176135	0.0103	mg/kg	94
86)	14dichloro2butene	13.52	53	36330	0.0086	mg/kg#	70
87)	n-Propylbenz	13.60	91	604619	0.0092	mg/kg	98
88)	2chlorotolue	13.72	91	364284	0.0092	mg/kg	98
89)	4chlorotolue	13.88	91	419142	0.0094	mg/kg	99
90)	135Trimebenz	13.86	105	461518	0.0093	mg/kg	99
91)	tbutylbenzen	14.33	119	421097	0.0096	mg/kg	100
92)	124Trimetben	14.40	105	479116	0.0095	mg/kg	98
93)	sbutylbenzen	14.65	105	613485	0.0097	mg/kg	99
94)	13Diclorbenz	14.80	146	288850	0.0092	mg/kg	99
95)	pIsopropylto	14.86	119	505189	0.0095	mg/kg	99
96)	14dichlorobe	14.93	146	287217	0.0093	mg/kg	97
97)	12dichlorobe	15.46	146	284467	0.0095	mg/kg	98
98)	nButylbenzen	15.46	91	427265	0.0092	mg/kg	98
99)	12dibromo3cl	16.58	157	26600	0.0085	mg/kg	89
100)	135Trichlorobenzene	16.88	180	194092	0.0085	mg/kg	99
101)	124Trichlobe	17.70	180	177830	0.0087	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF1.D Vial: 26
Acq On : 13 Nov 2019 4:26 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 04:47:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	118319	0.0095	mg/kg	99
103)	Naphthalene	18.02	128	409152	0.0089	mg/kg	97
104)	123Trichlben	18.32	180	181569	0.0091	mg/kg	99

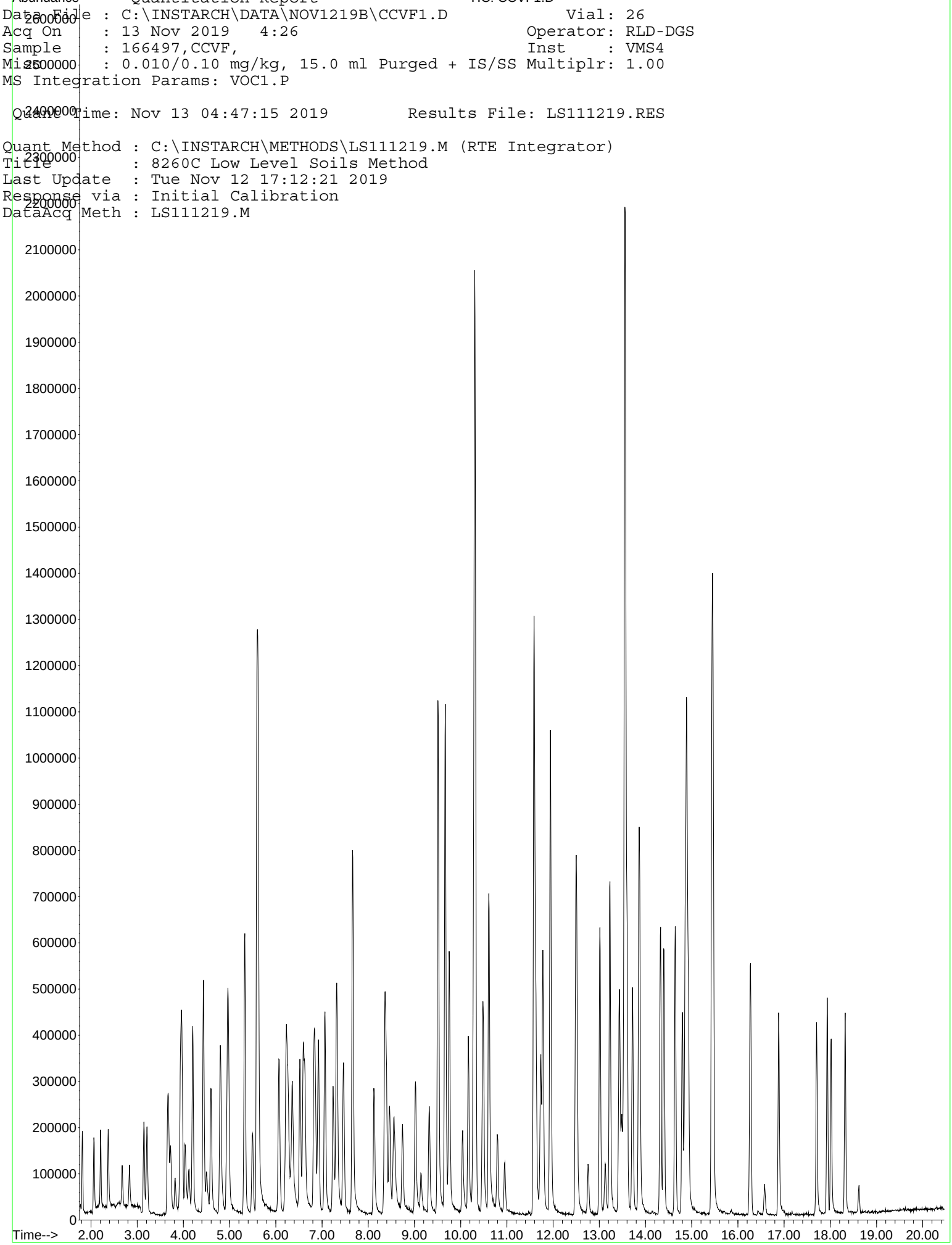
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCVF1.D

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF1.D Vial: 26
Acq On : 13 Nov 2019 4:26 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 04:47:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Data File : C:\Instarch\Data\NOV1219B\BFB2.D Vial: 27
Acq On : 13 Nov 2019 7:26 Operator: RLD-DGS
Sample : 166498,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS111219.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.633 to 4.636 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.7	23686	PASS
75	95	30	60	47.4	47365	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.2	6157	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.4	91422	PASS
175	174	5	9	6.7	6157	PASS
176	174	95	101	96.5	88213	PASS
177	176	5	9	6.1	5350	PASS

LS111219.M Mon Dec 02 12:39:10 2019

Evaluate Continuing Calibration Report

Data File : c:\instarch\data\nov1219b\CCV2.D Vial: 28
Acq On : 13 Nov 2019 7:43 Operator: RLD-DGS
Sample : 166498,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 13 08:06:17 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	111	0.00
2	T	Dichlorodi	0.2663	0.2556	4.02	109	0.00
3	PT	Chloromethan	0.3437	0.3323	3.32	116	0.00
4	CT	VinylChlorid	0.3001	0.2906	3.17	113	0.00
5	T	Bromomethane	0.1613	0.1249	22.57#	72	0.00
6	T	Chloroethane	0.1746	0.1582	9.39	109	0.00
7	T	dichloroflmethane	0.4366	0.4187	4.10	110	0.00
8	T	Trichlorofma	0.3783	0.3781	0.05	107	0.00
9	T	Ethylether	0.2091	0.2021	3.35	110	0.00
10	T	dichlorotfluoroethan	0.2664	0.2722	-2.18	114	0.00
11	T	propyleneoxide	0.0352	0.0323	8.24	93	0.00
12	T	Acrolein	0.0466	0.0402	13.73	93	0.00
13	CT	11dichlorthe	0.2315	0.2214	4.36	108	0.00
14	T	Trichlorotfluoroeth	0.2134	0.2222	-4.12	114	0.00
15	T	Acetone	0.0667	0.0547	17.99	93	0.00
16	T	Iodomethane	0.1640	0.1787	-8.96	190	0.00
17	T	Carbon Dislf	0.6828	0.6579	3.65	111	0.00
18	T	allylchloride	0.4665	0.4447	4.67	110	0.00
19	T	methylacetate	0.0737	0.0626	15.06	96	0.00
20	T	Methylchlorid	0.3214	0.2849	11.36	116	0.00
21	T	Acrylonitrile	0.0723	0.0656	9.27	96	0.00
22	T	t12dichlorte	0.2642	0.2516	4.77	111	0.00
23	T	tbutylalcohol	0.0281	0.0240	14.59	93	0.00
24	T	MtBE	0.6350	0.5975	5.91	106	0.01
25	T	Hexane	0.3865	0.3587	7.19	108	0.00
26	PT	11dichlorota	0.4792	0.4697	1.98	114	0.00
27	T	Vinylacetate	0.3950	0.4137	-4.73	106	0.00
28	T	chloroprene	0.3802	0.3795	0.18	111	0.00
29	T	Diisopether	0.8907	0.8953	-0.52	115	0.00
30	T	ETBE	0.7673	0.7540	1.73	114	0.00
31	T	22dichloropr	0.3568	0.3420	4.15	108	0.00
32	T	c12dichlorte	0.2926	0.2736	6.49	110	0.00
33	T	2Butanone	0.0220	0.0191	13.18	94	0.00
34	T	propionitrile	0.0288	0.0235	18.40	93	0.00
35	T	Ethylacetate	0.0069	0.0062#	10.14	95	0.00
36	T	methacrylonitrile	0.0829	0.0723	12.79	94	0.00
37	T	Bromochlorma	0.1302	0.1256	3.53	106	0.00
38	T	Tetrahydofur	0.0692	0.0629	9.10	98	0.00
39	CT	Chloroform	0.4454	0.4354	2.25	112	0.00
40	T	111trichlota	0.3939	0.3754	4.70	109	0.00
41	S	SURRDibrflma	0.2461	0.2494	-1.34	114	0.00
42	T	Cyclohexane	0.4160	0.4164	-0.10	111	0.00
43	T	Carbtetraclo	0.3272	0.3228	1.34	111	0.00
44	T	11dicloprope	0.1251	0.1209	3.36	111	-0.01
45	S	SURR12DCAd4	0.0520	0.0508	2.31	102	0.00
46	T	Benzene	1.0359	0.9940	4.04	109	0.00
47	T	12dichlorota	0.3217	0.3226	-0.28	114	0.00
48	T	TAME	0.6374	0.6171	3.18	114	0.00

49	T	trichloroete	0.2661	0.2510	5.67	114	0.00
50	T	methylcyclohexane	0.4426	0.4399	0.61	108	0.00
51	CT	12dicloropra	0.2866	0.2702	5.72	105	0.00
52	T	23dicl1propene	0.3651	0.3458	5.29	111	0.00
53	T	Dibromometha	0.1441	0.1433	0.56	111	0.00
54	T	methylmethacrylate	0.1352	0.1178	12.87	101	0.00
55	T	14dioxane	0.0024	0.0022#	8.33	97	0.00
56	T	Bromodiclrma	0.3337	0.3131	6.17	109	0.00
57	T	2Nitropropane	0.0603	0.0527	12.60	97	0.00
58	T	c13dicloproe	0.3935	0.3681	6.45	107	0.00
59	T	4Meth2Pentan	0.2324	0.2192	5.68	101	0.00
60	S	SURRd8Tolule	0.9998	0.9983	0.15	111	0.00
61	CT	Toluene	0.6895	0.6418	6.92	109	0.00
62	T	t13Dicloprop	0.3245	0.3037	6.41	106	0.00
63	T	ethylmethacrylate	0.2835	0.2627	7.34	106	0.00
64	T	112Triclotha	0.1890	0.1730	8.47	106	0.00
65	T	Tetrachlorte	0.3120	0.2831	9.26	108	0.00
66	T	13Diclorpropa	0.3569	0.3407	4.54	107	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	112	0.00
68	T	2Hexanone	0.2033	0.1912	5.95	100	0.00
69	T	Clorodibrmta	0.3400	0.3203	5.79	112	0.00
70	T	12Dibrometha	0.2922	0.2725	6.74	101	0.00
71	PT	Chlorobenzen	0.9583	0.8810	8.07	109	0.00
72	T	1Clhexane	0.4187	0.3957	5.49	107	0.00
73	T	1112Tetclota	0.3552	0.3369	5.15	113	0.00
74	CT	Ethylbenzene	1.5565	1.4662	5.80	111	0.00
75	T	m p-Xylene	0.6162	0.5794	5.97	109	0.00
76	T	o-Xylene	0.6249	0.5968	4.50	112	0.00
77	T	Styrene	0.9663	0.9082	6.01	109	0.00
78	PT	Bromoform	0.2145	0.1994	7.04	110	0.00
79	T	Isopropylben	1.5830	1.5238	3.74	111	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	116	0.00
81	T	cyclohexanone	0.0215	0.0185	13.95	96	0.00
82	S	SURR4BrFBenz	0.8202	0.8134	0.83	114	0.00
83	T	Bromobenzene	0.8046	0.7379	8.29	107	0.00
84	PT	1122Tetrclta	0.7038	0.6297	10.53	102	0.00
85	T	123Triclproa	0.8231	0.7751	5.83	108	0.00
86	T	14dichloro2butene	0.2042	0.1773	13.17	95	0.00
87	T	n-Propylbenz	3.1519	2.8745	8.80	104	0.00
88	T	2chlorotolue	1.9045	1.7339	8.96	108	0.00
89	T	4chlorotolue	2.1355	1.9895	6.84	107	0.00
90	T	135Trimebenz	2.3831	2.2494	5.61	110	0.00
91	T	tbutylbenzen	2.1028	1.9960	5.08	109	0.00
92	T	124Trimetben	2.4360	2.2581	7.30	109	0.00
93	T	sbutylbenzen	3.0572	2.9289	4.20	109	0.00
94	T	13Diclorbenz	1.5018	1.3824	7.95	111	0.00
95	T	pIsopropylto	2.5538	2.4781	2.96	110	0.00
96	T	14dichlorobe	1.4865	1.4119	5.02	113	0.00
97	T	12dichlorobe	1.4468	1.3428	7.19	110	0.00
98	T	nButylbenzen	2.2235	2.0737	6.74	109	0.00
99	T	12dibromo3cl	0.1511	0.1317	12.84	100	0.00
100	T	135Trichlorobenzene	1.1030	1.0404	5.68	112	0.00
101	T	124Trichlobe	0.9853	0.9332	5.29	113	0.00
102	T	Hexachlorobu	0.5975	0.5829	2.44	110	0.00
103	T	Naphthalene	2.2171	2.0083	9.42	105	0.00
104	T	123Trichlben	0.9639	0.9282	3.70	114	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 13:07:24 2019

Evaluate Continuing Calibration Report

Data File : c:\instarch\data\nov1219b\CCV2.D Vial: 28
Acq On : 13 Nov 2019 7:43 Operator: RLD-DGS
Sample : 166498,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 13 08:06:17 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	0.0200	0.0200	0.00	111	0.00
2	T	Dichlorodi	0.0100	0.0096	4.00	109	0.00
3	PT	Chloromethan	0.0100	0.0097	3.00	116	0.00
4	CT	VinylChlorid	0.0100	0.0097	3.00	113	0.00
5	T	Bromomethane	0.0100	0.0074	26.00#	72	0.00
6	T	Chloroethane	0.0100	0.0091	9.00	109	0.00
7	T	dichloroflmethane	0.0100	0.0096	4.00	110	0.00
8	T	Trichlorofma	0.0100	0.0100	0.00	107	0.00
9	T	Ethylether	0.0100	0.0097	3.00	110	0.00
10	T	dichlorotfluoroethan	0.0100	0.0102	-2.00	114	0.00
11	T	propyleneoxide	0.1000	0.0918	8.20	93	0.00
12	T	Acrolein	0.0500	0.0431	13.80	93	0.00
13	CT	11dichlorthe	0.0100	0.0096	4.00	108	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0208	-4.00	114	0.00
15	T	Acetone	0.1000	0.0820	18.00	93	0.00
16	T	Iodomethane	0.0200	0.0250	-25.00#	190	0.00
17	T	Carbon Dislf	0.0200	0.0193	3.50	111	0.00
18	T	allylchloride	0.0200	0.0191	4.50	110	0.00
19	T	methylacetate	0.0100	0.0085	15.00	96	0.00
20	T	Methylchlorid	0.0100	0.0097	3.00	116	0.00
21	T	Acrylonitrile	0.0500	0.0454	9.20	96	0.00
22	T	t12dichlorte	0.0100	0.0095	5.00	111	0.00
23	T	tbutylalcohol	0.5000	0.4266	14.68	93	0.00
24	T	MtBE	0.0100	0.0094	6.00	106	0.01
25	T	Hexane	0.0200	0.0186	7.00	108	0.00
26	PT	11dichlorota	0.0100	0.0098	2.00	114	0.00
27	T	Vinylacetate	0.1000	0.1047	-4.70	106	0.00
28	T	chloroprene	0.0200	0.0200	0.00	111	0.00
29	T	Diisopether	0.0100	0.0101	-1.00	115	0.00
30	T	ETBE	0.0100	0.0098	2.00	114	0.00
31	T	22dichloropr	0.0100	0.0096	4.00	108	0.00
32	T	c12dichlorte	0.0100	0.0094	6.00	110	0.00
33	T	2Butanone	0.1000	0.0866	13.40	94	0.00
34	T	propionitrile	0.1000	0.0818	18.20	93	0.00
35	T	Ethylacetate	0.0500	0.0454	9.20	95	0.00
36	T	methacrylonitrile	0.0200	0.0175	12.50	94	0.00
37	T	Bromochlorma	0.0100	0.0096	4.00	106	0.00
38	T	Tetrahydofur	0.1000	0.0908	9.20	98	0.00
39	CT	Chloroform	0.0100	0.0098	2.00	112	0.00
40	T	111trichlota	0.0100	0.0095	5.00	109	0.00
41	S	SURRDibrflma	0.0200	0.0203	-1.50	114	0.00
42	T	Cyclohexane	0.0100	0.0100	0.00	111	0.00
43	T	Carbtetraclo	0.0100	0.0099	1.00	111	0.00
44	T	11dicloprope	0.0100	0.0097	3.00	111	-0.01
45	S	SURR12DCAd4	0.0200	0.0196	2.00	102	0.00
46	T	Benzene	0.0100	0.0096	4.00	109	0.00
47	T	12dichlorota	0.0100	0.0100	0.00	114	0.00
48	T	TAME	0.0100	0.0097	3.00	114	0.00

49	T	trichloroete	0.0100	0.0094	6.00	114	0.00
50	T	methylcyclohexane	0.0100	0.0099	1.00	108	0.00
51	CT	12dicloropra	0.0100	0.0094	6.00	105	0.00
52	T	23dicl1propene	0.0100	0.0095	5.00	111	0.00
53	T	Dibromometha	0.0100	0.0099	1.00	111	0.00
54	T	methylmethacrylate	0.0100	0.0087	13.00	101	0.00
55	T	14dioxane	0.5000	0.4432	11.36	97	0.00
56	T	Bromodiclrma	0.0100	0.0094	6.00	109	0.00
57	T	2Nitropropane	0.1000	0.0875	12.50	97	0.00
58	T	c13dicloproe	0.0100	0.0094	6.00	107	0.00
59	T	4Meth2Pentan	0.1000	0.0943	5.70	101	0.00
60	S	SURRd8Tolule	0.0200	0.0200	0.00	111	0.00
61	CT	Toluene	0.0100	0.0093	7.00	109	0.00
62	T	t13Dicloprop	0.0100	0.0094	6.00	106	0.00
63	T	ethylmethacrylate	0.0200	0.0185	7.50	106	0.00
64	T	112Triclotha	0.0100	0.0092	8.00	106	0.00
65	T	Tetrachlorte	0.0100	0.0091	9.00	108	0.00
66	T	13Diclorpropa	0.0100	0.0095	5.00	107	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	112	0.00
68	T	2Hexanone	0.1000	0.0941	5.90	100	0.00
69	T	Clorodibrmta	0.0100	0.0094	6.00	112	0.00
70	T	12Dibrometha	0.0100	0.0093	7.00	101	0.00
71	PT	Chlorobenzen	0.0100	0.0092	8.00	109	0.00
72	T	1Clhexane	0.0100	0.0095	5.00	107	0.00
73	T	1112Tetclota	0.0100	0.0095	5.00	113	0.00
74	CT	Ethylbenzene	0.0100	0.0094	6.00	111	0.00
75	T	m p-Xylene	0.0200	0.0188	6.00	109	0.00
76	T	o-Xylene	0.0100	0.0095	5.00	112	0.00
77	T	Styrene	0.0100	0.0094	6.00	109	0.00
78	PT	Bromoform	0.0100	0.0093	7.00	110	0.00
79	T	Isopropylben	0.0100	0.0096	4.00	111	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	116	0.00
81	T	cyclohexanone	0.2000	0.1729	13.55	96	0.00
82	S	SURR4BrFBenz	0.0200	0.0198	1.00	114	0.00
83	T	Bromobenzene	0.0100	0.0092	8.00	107	0.00
84	PT	1122Tetrclta	0.0100	0.0089	11.00	102	0.00
85	T	123Triclproa	0.0100	0.0094	6.00	108	0.00
86	T	14dichloro2butene	0.0100	0.0087	13.00	95	0.00
87	T	n-Propylbenz	0.0100	0.0091	9.00	104	0.00
88	T	2chlorotolue	0.0100	0.0091	9.00	108	0.00
89	T	4chlorotolue	0.0100	0.0093	7.00	107	0.00
90	T	135Trimebenz	0.0100	0.0094	6.00	110	0.00
91	T	tbutylbenzen	0.0100	0.0095	5.00	109	0.00
92	T	124Trimetben	0.0100	0.0093	7.00	109	0.00
93	T	sbutylbenzen	0.0100	0.0096	4.00	109	0.00
94	T	13Diclorbenz	0.0100	0.0092	8.00	111	0.00
95	T	pIsopropylto	0.0100	0.0097	3.00	110	0.00
96	T	14dichlorobe	0.0100	0.0095	5.00	113	0.00
97	T	12dichlorobe	0.0100	0.0093	7.00	110	0.00
98	T	nButylbenzen	0.0100	0.0093	7.00	109	0.00
99	T	12dibromo3cl	0.0100	0.0087	13.00	100	0.00
100	T	135Trichlorobenzene	0.0100	0.0094	6.00	112	0.00
101	T	124Trichlobe	0.0100	0.0095	5.00	113	0.00
102	T	Hexachlorobu	0.0100	0.0098	2.00	110	0.00
103	T	Naphthalene	0.0100	0.0091	9.00	105	0.00
104	T	123Trichlben	0.0100	0.0096	4.00	114	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 13:06:59 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCV2.D Vial: 28
Acq On : 13 Nov 2019 7:43 Operator: RLD-DGS
Sample : 166498,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 08:06:17 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:12 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	989252	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.58	117	771680	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	430213	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	246729	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	50298	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.67	98	987595	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	349926	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	126435	0.0096	mg/kg	97
3) Chloromethan	2.06	50	164388	0.0097	mg/kg	95
4) VinylChlorid	2.21	62	143752	0.0097	mg/kg	98
5) Bromomethane	2.68	94	61791	0.0074	mg/kg	96
6) Chloroethane	2.83	64	78248	0.0091	mg/kg	98
7) dichloroflmethane	3.14	67	207108	0.0096	mg/kg	98
8) Trichlorofma	3.21	101	187017	0.0100	mg/kg	99
9) Ethylether	3.66	59	99972	0.0097	mg/kg	96
10) dichlorotfluoroethan	3.67	67	134617	0.0102	mg/kg	98
11) propyleneoxide	3.72	58	159695	0.0918	mg/kg	98
12) Acrolein	3.83	56	99308	0.0431	mg/kg	96
13) 11dichlorthe	3.93	96	109527	0.0096	mg/kg	94
14) Trichlorotfluoroeth	3.96	101	219767	0.0208	mg/kg	97
15) Acetone	4.03	43	270510	0.0820	mg/kg	100
16) Iodomethane	4.12	142	176820	0.0250	mg/kg	96
17) Carbon Dislf	4.20	76	650794	0.0193	mg/kg	100
18) allylchloride	4.43	41	439968	0.0191	mg/kg	99
19) methylacetate	4.50	74	30951	0.0085	mg/kg	99
20) Methylchlorid	4.59	84	140932	0.0097	mg/kg	97
21) Acrylonitrile	4.93	53	162285	0.0454	mg/kg	96
22) t12dichlorte	4.96	96	124463	0.0095	mg/kg	97
23) tbutylalcohol	4.80	59	592629	0.4266	mg/kg	99
24) MtBE	4.98	73	295524	0.0094	mg/kg	99
25) Hexane	5.33	57	354866	0.0186	mg/kg	99
26) 11dichlorota	5.49	63	232304	0.0098	mg/kg	96
27) Vinylacetate	5.59	43	2046500	0.1047	mg/kg	99
28) chloroprene	5.61	53	375420	0.0200	mg/kg	99
29) Diisopether	5.61	45	442853	0.0101	mg/kg#	87
30) ETBE	6.07	59	372933	0.0098	mg/kg	100
31) 22dichloropr	6.22	77	169163	0.0096	mg/kg	99
32) c12dichlorte	6.24	96	135334	0.0094	mg/kg	98
33) 2Butanone	6.26	72	94312	0.0866	mg/kg	97
34) propionitrile	6.33	54	116348	0.0818	mg/kg	92
35) Ethylacetate	6.36	88	15430	0.0454	mg/kg#	87
36) methacrylonitrile	6.52	67	71568	0.0175	mg/kg	95
37) Bromochlorma	6.53	128	62141	0.0096	mg/kg	98
38) Tetrahydofur	6.59	42	310936	0.0908	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCV2.D Vial: 28
Acq On : 13 Nov 2019 7:43 Operator: RLD-DGS
Sample : 166498,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 08:06:17 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:12 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.62	83	215383	0.0098	mg/kg	96
40)	111trichlota	6.86	97	185669	0.0095	mg/kg	97
42)	Cyclohexane	6.92	56	205969	0.0100	mg/kg	100
43)	Carbtetraclo	7.06	119	159649	0.0099	mg/kg	95
44)	11dicloprope	7.06	110	59813	0.0097	mg/kg	97
46)	Benzene	7.31	78	491653	0.0096	mg/kg	97
47)	12dichlorota	7.34	62	159580	0.0100	mg/kg	95
48)	TAME	7.46	73	305246	0.0097	mg/kg	98
49)	trichloroete	8.12	95	124149	0.0094	mg/kg	97
50)	methylcyclohexane	8.36	83	217602	0.0099	mg/kg	97
51)	12dicloropra	8.40	63	133641	0.0094	mg/kg	95
52)	23dicl1propene	8.46	75	171047	0.0095	mg/kg	96
53)	Dibromometha	8.55	93	70867	0.0099	mg/kg	94
54)	methylmethacrylate	8.57	69	58270	0.0087	mg/kg	98
55)	14dioxane	8.58	88	53700	0.4432	mg/kg	98
56)	Bromodiclrma	8.74	83	154871	0.0094	mg/kg	98
57)	2Nitropropane	9.02	43	260771	0.0875	mg/kg	96
58)	c13dicloproe	9.31	75	182063	0.0094	mg/kg	97
59)	4Meth2Pentan	9.51	43	1084042	0.0943	mg/kg	99
61)	Toluene	9.75	92	317475	0.0093	mg/kg	97
62)	t13Dicloprop	10.04	75	150222	0.0094	mg/kg	98
63)	ethylmethacrylate	10.17	69	259860	0.0185	mg/kg	99
64)	112Triclotha	10.27	83	85584	0.0092	mg/kg	92
65)	Tetrachlorte	10.48	166	140043	0.0091	mg/kg	98
66)	13Diclorpropa	10.50	76	168534	0.0095	mg/kg	98
68)	2Hexanone	10.61	43	737735	0.0941	mg/kg	98
69)	Clorodibrmta	10.80	129	123581	0.0094	mg/kg	97
70)	12Dibrometha	10.96	107	105150	0.0093	mg/kg	98
71)	Chlorobenzen	11.63	112	339920	0.0092	mg/kg	99
72)	1Clhexane	11.60	91	152671	0.0095	mg/kg	98
73)	1112Tetclota	11.73	131	129976	0.0095	mg/kg	98
74)	Ethylbenzene	11.78	91	565733	0.0094	mg/kg	99
75)	m p-Xylene	11.94	106	447136	0.0188	mg/kg	99
76)	o-Xylene	12.50	106	230257	0.0095	mg/kg	95
77)	Styrene	12.51	104	350414	0.0094	mg/kg	98
78)	Bromoform	12.76	173	76943	0.0093	mg/kg	96
79)	Isopropylben	13.01	105	587937	0.0096	mg/kg	97
81)	cyclohexanone	13.13	55	79788	0.1729	mg/kg	99
83)	Bromobenzene	13.44	156	158732	0.0092	mg/kg	96
84)	1122Tetrclta	13.43	83	135460	0.0089	mg/kg	96
85)	123Triclproa	13.49	75	166723	0.0094	mg/kg	96
86)	14dichloro2butene	13.52	53	38148	0.0087	mg/kg#	64
87)	n-Propylbenz	13.60	91	618334	0.0091	mg/kg	97
88)	2chlorotolue	13.72	91	372966	0.0091	mg/kg	98
89)	4chlorotolue	13.88	91	427965	0.0093	mg/kg	98
90)	135Trimebenz	13.86	105	483866	0.0094	mg/kg	98
91)	tbutylbenzen	14.32	119	429355	0.0095	mg/kg	98
92)	124Trimetben	14.39	105	485726	0.0093	mg/kg	98
93)	sbutylbenzen	14.64	105	630015	0.0096	mg/kg	99
94)	13Diclorbenz	14.80	146	297364	0.0092	mg/kg	99
95)	pIsopropylto	14.86	119	533047	0.0097	mg/kg	100
96)	14dichlorobe	14.92	146	303717	0.0095	mg/kg	95
97)	12dichlorobe	15.47	146	288845	0.0093	mg/kg	98
98)	nButylbenzen	15.46	91	446071	0.0093	mg/kg	100
99)	12dibromo3cl	16.58	157	28328	0.0087	mg/kg	97
100)	135Trichlorobenzene	16.89	180	223795	0.0094	mg/kg	99
101)	124Trichlobe	17.70	180	200745	0.0095	mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCV2.D Vial: 28
Acq On : 13 Nov 2019 7:43 Operator: RLD-DGS
Sample : 166498,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 08:06:17 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:12 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	125384	0.0098	mg/kg	98
103)	Naphthalene	18.02	128	432005	0.0091	mg/kg	99
104)	123Trichlben	18.32	180	199659	0.0096	mg/kg	97

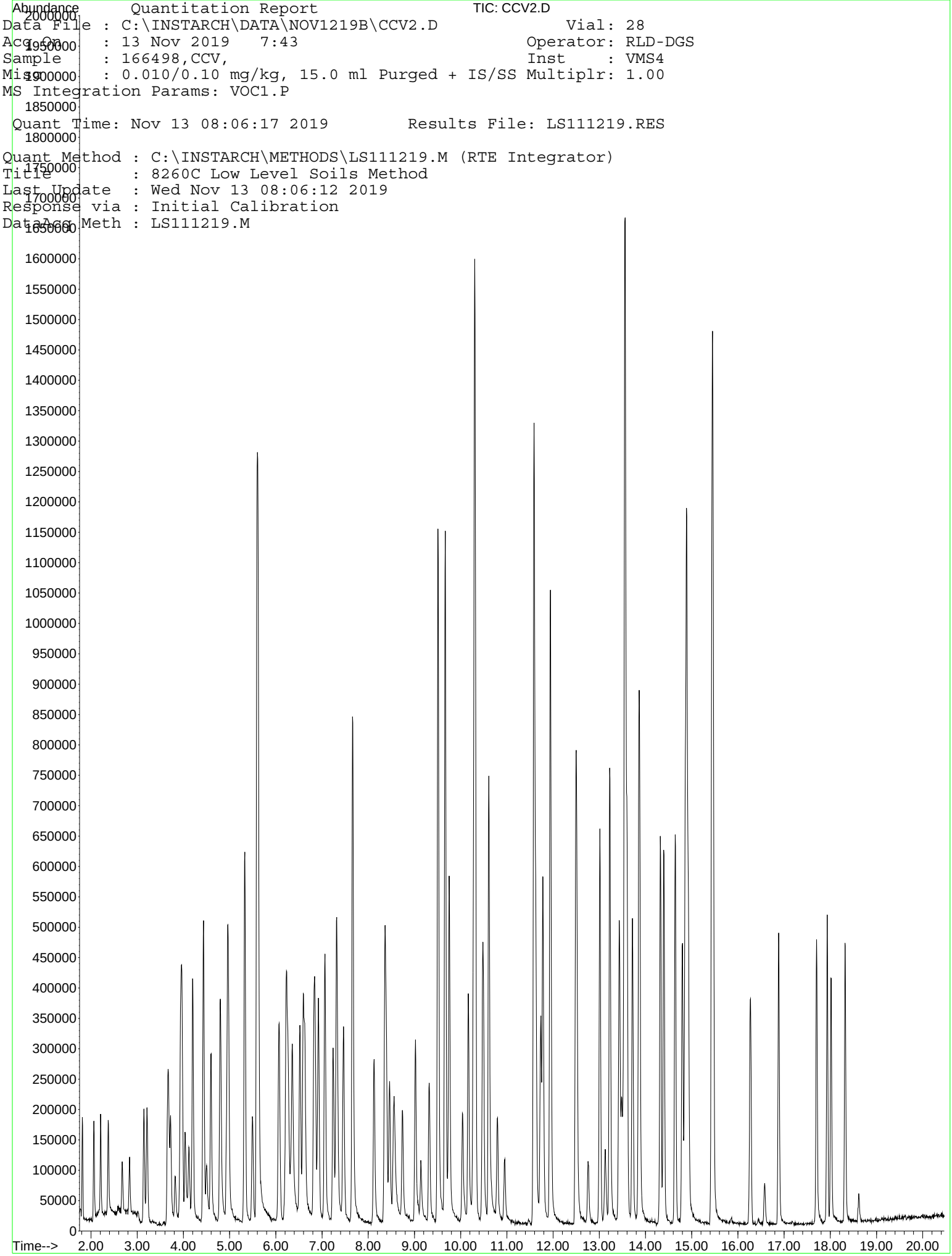
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCV2.D

Data File : C:\INSTARCH\DATA\NOV1219B\CCV2.D Vial: 28
Acq On : 13 Nov 2019 7:43 Operator: RLD-DGS
Sample : 166498,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 08:06:17 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:12 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Evaluate Continuing Calibration Report

Data File : c:\instarch\data\nov1219b\CCVF2.D Vial: 52
Acq On : 13 Nov 2019 19:19 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 13 19:39:38 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	99	0.00
2	T	Dichlorodi	0.2663	0.2787	-4.66	106	0.00
3	PT	Chloromethan	0.3437	0.3752	-9.16	117	0.00
4	CT	VinylChlorid	0.3001	0.3094	-3.10	107	0.00
5	T	Bromomethane	0.1613	0.1290	20.02	67	0.00
6	T	Chloroethane	0.1746	0.1725	1.20	106	0.00
7	T	dichloroflmethane	0.4366	0.4482	-2.66	105	0.00
8	T	Trichlorofma	0.3783	0.3935	-4.02	100	0.00
9	T	Ethylether	0.2091	0.2118	-1.29	102	0.00
10	T	dichlorotfluoroethan	0.2664	0.2782	-4.43	104	0.00
11	T	propyleneoxide	0.0352	0.0292	17.05	75	0.00
12	T	Acrolein	0.0466	0.0420	9.87	87	0.00
13	CT	11dichlorthe	0.2315	0.2351	-1.56	102	0.00
14	T	Trichlorotfluoroeth	0.2134	0.2256	-5.72	103	0.00
15	T	Acetone	0.0667	0.0603	9.60	91	0.00
16	T	Iodomethane	0.1640	0.1919	-17.01	182	0.00
17	T	Carbon Dislf	0.6828	0.6842	-0.21	103	0.00
18	T	allylchloride	0.4665	0.4593	1.54	102	0.00
19	T	methylacetate	0.0737	0.0634	13.98	87	0.00
20	T	Methylchlorid	0.3214	0.3149	2.02	115	0.00
21	T	Acrylonitrile	0.0723	0.0691	4.43	90	0.00
22	T	t12dichlorte	0.2642	0.2580	2.35	102	0.00
23	T	tbutylalcohol	0.0281	0.0248	11.74	86	0.00
24	T	MtBE	0.6350	0.6327	0.36	101	0.00
25	T	Hexane	0.3865	0.3707	4.09	100	0.00
26	PT	11dichlorota	0.4792	0.4771	0.44	103	0.00
27	T	Vinylacetate	0.3950	0.4361	-10.41	100	0.00
28	T	chloroprene	0.3802	0.3910	-2.84	102	0.00
29	T	Diisopether	0.8907	0.9562	-7.35	110	0.00
30	T	ETBE	0.7673	0.7923	-3.26	107	0.00
31	T	22dichloropr	0.3568	0.3515	1.49	100	0.00
32	T	c12dichlorte	0.2926	0.2921	0.17	105	0.00
33	T	2Butanone	0.0220	0.0199	9.55	88	0.00
34	T	propionitrile	0.0288	0.0267	7.29	94	0.00
35	T	Ethylacetate	0.0069	0.0062#	10.14	84	0.00
36	T	methacrylonitrile	0.0829	0.0791	4.58	92	0.00
37	T	Bromochlorma	0.1302	0.1334	-2.46	100	0.00
38	T	Tetrahydofur	0.0692	0.0634	8.38	88	0.00
39	CT	Chloroform	0.4454	0.4545	-2.04	104	0.00
40	T	111trichlota	0.3939	0.3994	-1.40	104	0.00
41	S	SURRDibrflma	0.2461	0.2594	-5.40	106	0.00
42	T	Cyclohexane	0.4160	0.4357	-4.74	104	0.00
43	T	Carbtetraclo	0.3272	0.3337	-1.99	103	0.00
44	T	11dicloprope	0.1251	0.1302	-4.08	107	0.00
45	S	SURR12DCAd4	0.0520	0.0573	-10.19	103	0.00
46	T	Benzene	1.0359	1.0454	-0.92	103	0.00
47	T	12dichlorota	0.3217	0.3291	-2.30	104	0.00
48	T	TAME	0.6374	0.6235	2.18	103	0.00

49	T	trichloroete	0.2661	0.2657	0.15	108	0.00
50	T	methylcyclohexane	0.4426	0.4634	-4.70	101	0.00
51	CT	12dicloropra	0.2866	0.2890	-0.84	101	0.00
52	T	23dicl1propene	0.3651	0.3502	4.08	101	0.00
53	T	Dibromometha	0.1441	0.1370	4.93	95	0.00
54	T	methylmethacrylate	0.1352	0.1236	8.58	94	0.00
55	T	14dioxane	0.0024	0.0020#	16.67	82	0.00
56	T	Bromodiclrma	0.3337	0.3405	-2.04	106	0.00
57	T	2Nitropropane	0.0603	0.0554	8.13	91	0.00
58	T	c13dicloproe	0.3935	0.3915	0.51	102	0.00
59	T	4Meth2Pentan	0.2324	0.2309	0.65	95	0.00
60	S	SURRd8Tolule	0.9998	1.0328	-3.30	102	0.00
61	CT	Toluene	0.6895	0.6571	4.70	100	0.00
62	T	t13Dicloprop	0.3245	0.3201	1.36	99	0.00
63	T	ethylmethacrylate	0.2835	0.2725	3.88	98	0.00
64	T	112Triclotha	0.1890	0.1944	-2.86	106	0.00
65	T	Tetrachlorte	0.3120	0.2856	8.46	97	0.00
66	T	13Diclorpropa	0.3569	0.3638	-1.93	102	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	102	0.00
68	T	2Hexanone	0.2033	0.2030	0.15	97	0.00
69	T	Clorodibrmta	0.3400	0.3274	3.71	104	0.00
70	T	12Dibrometha	0.2922	0.2912	0.34	99	0.00
71	PT	Chlorobenzen	0.9583	0.9141	4.61	103	0.00
72	T	1Clhexane	0.4187	0.3872	7.52	95	0.00
73	T	1112Tetclota	0.3552	0.3551	0.03	109	0.00
74	CT	Ethylbenzene	1.5565	1.4736	5.33	102	0.00
75	T	m p-Xylene	0.6162	0.5797	5.92	100	0.00
76	T	o-Xylene	0.6249	0.5898	5.62	101	0.00
77	T	Styrene	0.9663	0.9184	4.96	101	0.00
78	PT	Bromoform	0.2145	0.2015	6.06	101	0.00
79	T	Isopropylben	1.5830	1.5191	4.04	101	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	107	0.00
81	T	cyclohexanone	0.0215	0.0176	18.14	84	0.00
82	S	SURR4BrFBenz	0.8202	0.8044	1.93	105	0.00
83	T	Bromobenzene	0.8046	0.7356	8.58	99	0.00
84	PT	1122Tetrclta	0.7038	0.6632	5.77	99	0.00
85	T	123Triclproa	0.8231	0.9256	-12.45	120	0.00
86	T	14dichloro2butene	0.2042	0.1896	7.15	94	0.00
87	T	n-Propylbenz	3.1519	2.7187	13.74	91	0.00
88	T	2chlorotolue	1.9045	1.7033	10.56	99	0.00
89	T	4chlorotolue	2.1355	1.8969	11.17	95	0.00
90	T	135Trimebenz	2.3831	2.1860	8.27	99	0.00
91	T	tbutylbenzen	2.1028	1.9946	5.15	102	0.00
92	T	124Trimetben	2.4360	2.2092	9.31	99	0.00
93	T	sbutylbenzen	3.0572	2.8642	6.31	99	0.00
94	T	13Diclorbenz	1.5018	1.3278	11.59	99	0.00
95	T	pIsopropylto	2.5538	2.3271	8.88	96	0.00
96	T	14dichlorobe	1.4865	1.2840	13.62	96	0.00
97	T	12dichlorobe	1.4468	1.3486	6.79	103	0.00
98	T	nButylbenzen	2.2235	1.9121	14.00	93	0.00
99	T	12dibromo3cl	0.1511	0.1298	14.10	91	0.00
100	T	135Trichlorobenzene	1.1030	0.8908	19.24	89	0.00
101	T	124Trichlobe	0.9853	0.8204	16.74	93	0.00
102	T	Hexachlorobu	0.5975	0.5471	8.44	95	0.00
103	T	Naphthalene	2.2171	1.9264	13.11	93	0.00
104	T	123Trichlben	0.9639	0.8342	13.46	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 13:09:48 2019

Evaluate Continuing Calibration Report

Data File : c:\instarch\data\nov1219b\CCVF2.D Vial: 52
Acq On : 13 Nov 2019 19:19 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 13 19:39:38 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	0.0200	0.0200	0.00	99	0.00
2	T	Dichlorodi	0.0100	0.0105	-5.00	106	0.00
3	PT	Chloromethan	0.0100	0.0109	-9.00	117	0.00
4	CT	VinylChlorid	0.0100	0.0103	-3.00	107	0.00
5	T	Bromomethane	0.0100	0.0077	23.00	67	0.00
6	T	Chloroethane	0.0100	0.0099	1.00	106	0.00
7	T	dichloroflmethane	0.0100	0.0103	-3.00	105	0.00
8	T	Trichlorofma	0.0100	0.0104	-4.00	100	0.00
9	T	Ethylether	0.0100	0.0101	-1.00	102	0.00
10	T	dichlorotfluoroethan	0.0100	0.0104	-4.00	104	0.00
11	T	propyleneoxide	0.1000	0.0831	16.90	75	0.00
12	T	Acrolein	0.0500	0.0450	10.00	87	0.00
13	CT	11dichlorthe	0.0100	0.0102	-2.00	102	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0211	-5.50	103	0.00
15	T	Acetone	0.1000	0.0904	9.60	91	0.00
16	T	Iodomethane	0.0200	0.0263	-31.50	182	0.00
17	T	Carbon Dislf	0.0200	0.0200	0.00	103	0.00
18	T	allylchloride	0.0200	0.0197	1.50	102	0.00
19	T	methylacetate	0.0100	0.0086	14.00	87	0.00
20	T	Methylchlorid	0.0100	0.0108	-8.00	115	0.00
21	T	Acrylonitrile	0.0500	0.0478	4.40	90	0.00
22	T	t12dichlorte	0.0100	0.0098	2.00	102	0.00
23	T	tbutylalcohol	0.5000	0.4418	11.64	86	0.00
24	T	MtBE	0.0100	0.0100	0.00	101	0.00
25	T	Hexane	0.0200	0.0192	4.00	100	0.00
26	PT	11dichlorota	0.0100	0.0100	0.00	103	0.00
27	T	Vinylacetate	0.1000	0.1104	-10.40	100	0.00
28	T	chloroprene	0.0200	0.0206	-3.00	102	0.00
29	T	Diisopether	0.0100	0.0107	-7.00	110	0.00
30	T	ETBE	0.0100	0.0103	-3.00	107	0.00
31	T	22dichloropr	0.0100	0.0099	1.00	100	0.00
32	T	c12dichlorte	0.0100	0.0100	0.00	105	0.00
33	T	2Butanone	0.1000	0.0906	9.40	88	0.00
34	T	propionitrile	0.1000	0.0929	7.10	94	0.00
35	T	Ethylacetate	0.0500	0.0449	10.20	84	0.00
36	T	methacrylonitrile	0.0200	0.0191	4.50	92	0.00
37	T	Bromochlorma	0.0100	0.0102	-2.00	100	0.00
38	T	Tetrahydofur	0.1000	0.0916	8.40	88	0.00
39	CT	Chloroform	0.0100	0.0102	-2.00	104	0.00
40	T	111trichlota	0.0100	0.0101	-1.00	104	0.00
41	S	SURRDibrflma	0.0200	0.0211	-5.50	106	0.00
42	T	Cyclohexane	0.0100	0.0105	-5.00	104	0.00
43	T	Carbtetraclo	0.0100	0.0102	-2.00	103	0.00
44	T	11dicloprope	0.0100	0.0104	-4.00	107	0.00
45	S	SURR12DCAd4	0.0200	0.0220	-10.00	103	0.00
46	T	Benzene	0.0100	0.0101	-1.00	103	0.00
47	T	12dichlorota	0.0100	0.0102	-2.00	104	0.00
48	T	TAME	0.0100	0.0098	2.00	103	0.00

49	T	trichloroete	0.0100	0.0100	0.00	108	0.00
50	T	methylcyclohexane	0.0100	0.0105	-5.00	101	0.00
51	CT	12dicloropra	0.0100	0.0101	-1.00	101	0.00
52	T	23dicl1propene	0.0100	0.0096	4.00	101	0.00
53	T	Dibromometha	0.0100	0.0095	5.00	95	0.00
54	T	methylmethacrylate	0.0100	0.0091	9.00	94	0.00
55	T	14dioxane	0.5000	0.4184	16.32	82	0.00
56	T	Bromodiclrma	0.0100	0.0102	-2.00	106	0.00
57	T	2Nitropropane	0.1000	0.0919	8.10	91	0.00
58	T	c13dicloproe	0.0100	0.0099	1.00	102	0.00
59	T	4Meth2Pentan	0.1000	0.0994	0.60	95	0.00
60	S	SURRd8Tolule	0.0200	0.0207	-3.50	102	0.00
61	CT	Toluene	0.0100	0.0095	5.00	100	0.00
62	T	t13Dicloprop	0.0100	0.0099	1.00	99	0.00
63	T	ethylmethacrylate	0.0200	0.0192	4.00	98	0.00
64	T	112Triclotha	0.0100	0.0103	-3.00	106	0.00
65	T	Tetrachlorte	0.0100	0.0092	8.00	97	0.00
66	T	13Diclorpropa	0.0100	0.0102	-2.00	102	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	102	0.00
68	T	2Hexanone	0.1000	0.0999	0.10	97	0.00
69	T	Clorodibrmta	0.0100	0.0096	4.00	104	0.00
70	T	12Dibrometha	0.0100	0.0100	0.00	99	0.00
71	PT	Chlorobenzen	0.0100	0.0095	5.00	103	0.00
72	T	1Clhexane	0.0100	0.0092	8.00	95	0.00
73	T	1112Tetclota	0.0100	0.0100	0.00	109	0.00
74	CT	Ethylbenzene	0.0100	0.0095	5.00	102	0.00
75	T	m p-Xylene	0.0200	0.0188	6.00	100	0.00
76	T	o-Xylene	0.0100	0.0094	6.00	101	0.00
77	T	Styrene	0.0100	0.0095	5.00	101	0.00
78	PT	Bromoform	0.0100	0.0094	6.00	101	0.00
79	T	Isopropylben	0.0100	0.0096	4.00	101	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	107	0.00
81	T	cyclohexanone	0.2000	0.1639	18.05	84	0.00
82	S	SURR4BrFBenz	0.0200	0.0196	2.00	105	0.00
83	T	Bromobenzene	0.0100	0.0091	9.00	99	0.00
84	PT	1122Tetrclta	0.0100	0.0094	6.00	99	0.00
85	T	123Triclproa	0.0100	0.0112	-12.00	120	0.00
86	T	14dichloro2butene	0.0100	0.0093	7.00	94	0.00
87	T	n-Propylbenz	0.0100	0.0086	14.00	91	0.00
88	T	2chlorotolue	0.0100	0.0089	11.00	99	0.00
89	T	4chlorotolue	0.0100	0.0089	11.00	95	0.00
90	T	135Trimebenz	0.0100	0.0092	8.00	99	0.00
91	T	tbutylbenzen	0.0100	0.0095	5.00	102	0.00
92	T	124Trimetben	0.0100	0.0091	9.00	99	0.00
93	T	sbutylbenzen	0.0100	0.0094	6.00	99	0.00
94	T	13Diclorbenz	0.0100	0.0088	12.00	99	0.00
95	T	pIsopropylto	0.0100	0.0091	9.00	96	0.00
96	T	14dichlorobe	0.0100	0.0086	14.00	96	0.00
97	T	12dichlorobe	0.0100	0.0093	7.00	103	0.00
98	T	nButylbenzen	0.0100	0.0086	14.00	93	0.00
99	T	12dibromo3cl	0.0100	0.0086	14.00	91	0.00
100	T	135Trichlorobenzene	0.0100	0.0081	19.00	89	0.00
101	T	124Trichlobe	0.0100	0.0083	17.00	93	0.00
102	T	Hexachlorobu	0.0100	0.0092	8.00	95	0.00
103	T	Naphthalene	0.0100	0.0087	13.00	93	0.00
104	T	123Trichlben	0.0100	0.0087	13.00	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 13:09:26 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF2.D Vial: 52
Acq On : 13 Nov 2019 19:19 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 19:39:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	883309	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	703147	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	399456	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	229143	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.24	102	50615	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.67	98	912268	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.23	95	321310	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	123091	0.0105	mg/kg	99
3) Chloromethan	2.06	50	165703	0.0109	mg/kg	99
4) VinylChlorid	2.21	62	136665	0.0103	mg/kg	99
5) Bromomethane	2.68	94	56968	0.0077	mg/kg	90
6) Chloroethane	2.83	64	76186	0.0099	mg/kg	98
7) dichloroflmethane	3.14	67	197934	0.0103	mg/kg	97
8) Trichlorofma	3.21	101	173810	0.0104	mg/kg	100
9) Ethylether	3.66	59	93545	0.0101	mg/kg	97
10) dichlorotfluoroethan	3.68	67	122875	0.0104	mg/kg	98
11) propyleneoxide	3.72	58	129088	0.0831	mg/kg	97
12) Acrolein	3.83	56	92648	0.0450	mg/kg	92
13) 11dichlorthe	3.94	96	103823	0.0102	mg/kg	96
14) Trichlorotfluoroeth	3.97	101	199259	0.0211	mg/kg	95
15) Acetone	4.04	43	266100	0.0904	mg/kg	97
16) Iodomethane	4.12	142	169523	0.0263	mg/kg	98
17) Carbon Dislf	4.20	76	604328	0.0200	mg/kg	98
18) allylchloride	4.43	41	405687	0.0197	mg/kg	98
19) methylacetate	4.50	74	27991	0.0086	mg/kg	98
20) Methylchlorid	4.60	84	139059	0.0108	mg/kg	97
21) Acrylonitrile	4.93	53	152629	0.0478	mg/kg	98
22) t12dichlorte	4.96	96	113940	0.0098	mg/kg	97
23) tbutylalcohol	4.80	59	548101	0.4418	mg/kg	97
24) MtBE	4.97	73	279427	0.0100	mg/kg	96
25) Hexane	5.33	57	327406	0.0192	mg/kg	98
26) 11dichlorota	5.49	63	210707	0.0100	mg/kg	97
27) Vinylacetate	5.59	43	1925862	0.1104	mg/kg	98
28) chloroprene	5.61	53	345345	0.0206	mg/kg	100
29) Diisopether	5.61	45	422291	0.0107	mg/kg#	84
30) ETBE	6.07	59	349917	0.0103	mg/kg	99
31) 22dichloropr	6.22	77	155255	0.0099	mg/kg	98
32) c12dichlorte	6.24	96	129010	0.0100	mg/kg	98
33) 2Butanone	6.26	72	88077	0.0906	mg/kg	94
34) propionitrile	6.33	54	117967	0.0929	mg/kg	97
35) Ethylacetate	6.36	88	13623	0.0449	mg/kg#	79
36) methacrylonitrile	6.52	67	69868	0.0191	mg/kg	98
37) Bromochlorma	6.52	128	58922	0.0102	mg/kg	93
38) Tetrahydofur	6.59	42	280167	0.0916	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF2.D Vial: 52
Acq On : 13 Nov 2019 19:19 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 19:39:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	200746	0.0102 mg/kg	98
40)	111trichlota	6.85	97	176394	0.0101 mg/kg	95
42)	Cyclohexane	6.92	56	192419	0.0105 mg/kg	99
43)	Carbtetraclo	7.06	119	147402	0.0102 mg/kg	97
44)	11dicloprope	7.07	110	57485	0.0104 mg/kg	92
46)	Benzene	7.31	78	461716	0.0101 mg/kg	98
47)	12dichlorota	7.34	62	145362	0.0102 mg/kg	98
48)	TAME	7.46	73	275382	0.0098 mg/kg	99
49)	trichloroete	8.13	95	117357	0.0100 mg/kg	95
50)	methylcyclohexane	8.36	83	204663	0.0105 mg/kg	97
51)	12dicloropra	8.40	63	127638	0.0101 mg/kg	96
52)	23dicl1propene	8.46	75	154650	0.0096 mg/kg	94
53)	Dibromometha	8.54	93	60501	0.0095 mg/kg	97
54)	methylmethacrylate	8.57	69	54598	0.0091 mg/kg	95
55)	14dioxane	8.58	88	45261	0.4184 mg/kg	95
56)	Bromodiclrma	8.74	83	150392	0.0102 mg/kg	96
57)	2Nitropropane	9.02	43	244757	0.0919 mg/kg	95
58)	c13dicloproe	9.32	75	172896	0.0099 mg/kg	96
59)	4Meth2Pentan	9.51	43	1019741	0.0994 mg/kg	98
61)	Toluene	9.75	92	290226	0.0095 mg/kg	96
62)	t13Dicloprop	10.04	75	141385	0.0099 mg/kg	97
63)	ethylmethacrylate	10.17	69	240672	0.0192 mg/kg	97
64)	112Triclotha	10.27	83	85843	0.0103 mg/kg	96
65)	Tetrachlorte	10.48	166	126149	0.0092 mg/kg	97
66)	13Diclorpropa	10.49	76	160658	0.0102 mg/kg	97
68)	2Hexanone	10.61	43	713763	0.0999 mg/kg	96
69)	Clorodibrmta	10.80	129	115102	0.0096 mg/kg	98
70)	12Dibrometha	10.95	107	102367	0.0100 mg/kg	97
71)	Chlorobenzen	11.63	112	321384	0.0095 mg/kg	98
72)	1Clhexane	11.59	91	136130	0.0092 mg/kg	98
73)	1112Tetclota	11.73	131	124831	0.0100 mg/kg	97
74)	Ethylbenzene	11.78	91	518092	0.0095 mg/kg	100
75)	m p-Xylene	11.94	106	407605	0.0188 mg/kg	98
76)	o-Xylene	12.50	106	207351	0.0094 mg/kg	97
77)	Styrene	12.51	104	322894	0.0095 mg/kg	100
78)	Bromoform	12.76	173	70845	0.0094 mg/kg	100
79)	Isopropylben	13.01	105	534064	0.0096 mg/kg	99
81)	cyclohexanone	13.13	55	70237	0.1639 mg/kg	94
83)	Bromobenzene	13.44	156	146918	0.0091 mg/kg	96
84)	1122Tetrclta	13.43	83	132468	0.0094 mg/kg	96
85)	123Triclproa	13.49	75	184859	0.0112 mg/kg	90
86)	14dichloro2butene	13.52	53	37866	0.0093 mg/kg#	50
87)	n-Propylbenz	13.60	91	543002	0.0086 mg/kg	96
88)	2chlorotolue	13.72	91	340195	0.0089 mg/kg	98
89)	4chlorotolue	13.88	91	378868	0.0089 mg/kg	99
90)	135Trimebenz	13.86	105	436601	0.0092 mg/kg	100
91)	tbutylbenzen	14.33	119	398376	0.0095 mg/kg	97
92)	124Trimetben	14.40	105	441237	0.0091 mg/kg	99
93)	sbutylbenzen	14.64	105	572056	0.0094 mg/kg	100
94)	13Diclorbenz	14.80	146	265200	0.0088 mg/kg	99
95)	pIsopropylto	14.86	119	464793	0.0091 mg/kg	99
96)	14dichlorobe	14.93	146	256460	0.0086 mg/kg	98
97)	12dichlorobe	15.46	146	269345	0.0093 mg/kg	98
98)	nButylbenzen	15.46	91	381896	0.0086 mg/kg	99
99)	12dibromo3cl	16.58	157	25919	0.0086 mg/kg	100
100)	135Trichlorobenzene	16.89	180	177927	0.0081 mg/kg	100
101)	124Trichlobe	17.70	180	163849	0.0083 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF2.D Vial: 52
Acq On : 13 Nov 2019 19:19 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 19:39:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	109266	0.0092	mg/kg	99
103)	Naphthalene	18.01	128	384762	0.0087	mg/kg	99
104)	123Trichlben	18.32	180	166621	0.0087	mg/kg	97

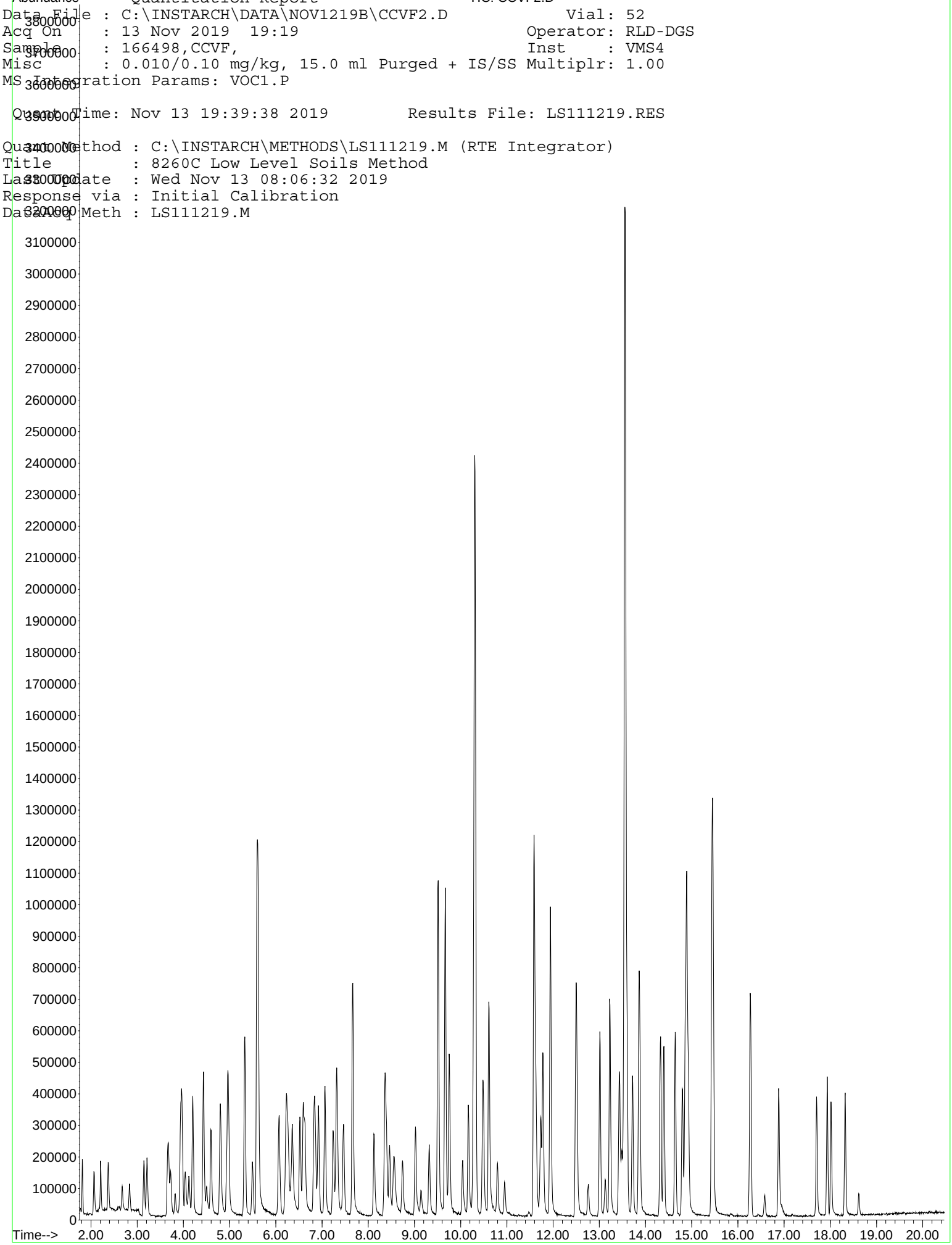
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCVF2.D

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF2.D Vial: 52
Acq On : 13 Nov 2019 19:19 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 19:39:38 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Data File : C:\Instarch\Data\NOV1219B\BFB3.D Vial: 53
Acq On : 14 Nov 2019 8:06 Operator: RLD-DGS
Sample : 166558,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS111219.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.656 to 4.675 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	19132	PASS
75	95	30	60	44.7	44741	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.2	7230	PASS
173	174	0.00	2	0.5	437	PASS
174	95	50	100	96.4	96431	PASS
175	174	5	9	7.9	7632	PASS
176	174	95	101	100.3	96686	PASS
177	176	5	9	6.3	6089	PASS

LS111219.M Mon Dec 02 12:39:34 2019

Evaluate Continuing Calibration Report

Data File : c:\instarch\data\nov1219b\CCV3.D Vial: 54
Acq On : 14 Nov 2019 8:19 Operator: RLD-DGS
Sample : 166558,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 14 08:40:32 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	105	0.00
2	T	Dichlorodi	0.2663	0.3438	-29.10#	138	0.00
3	PT	Chloromethan	0.3437	0.3742	-8.87	124	0.00
4	CT	VinylChlorid	0.3001	0.3199	-6.60	117	0.00
5	T	Bromomethane	0.1613	0.1173	27.28#	64	0.00
6	T	Chloroethane	0.1746	0.1794	-2.75	117	0.00
7	T	dichloroflmethane	0.4366	0.4630	-6.05	115	0.00
8	T	Trichlorofma	0.3783	0.4017	-6.19	107	0.00
9	T	Ethylether	0.2091	0.2096	-0.24	107	0.00
10	T	dichlorotfluoroethan	0.2664	0.2826	-6.08	111	0.00
11	T	propyleneoxide	0.0352	0.0315	10.51	85	0.00
12	T	Acrolein	0.0466	0.0434	6.87	95	-0.01
13	CT	11dichlorthe	0.2315	0.2390	-3.24	109	0.00
14	T	Trichlorotfluoroeth	0.2134	0.2274	-6.56	110	0.00
15	T	Acetone	0.0667	0.0630	5.55	101	0.00
16	T	Iodomethane	0.1640	0.1969	-20.06#	197	0.00
17	T	Carbon Dislf	0.6828	0.7101	-4.00	113	0.00
18	T	allylchloride	0.4665	0.4709	-0.94	110	0.00
19	T	methylacetate	0.0737	0.0626	15.06	90	0.00
20	T	Methylchlorid	0.3214	0.3820	-18.86	147	0.00
21	T	Acrylonitrile	0.0723	0.0663	8.30	91	0.00
22	T	t12dichlorte	0.2642	0.2646	-0.15	110	0.00
23	T	tbutylalcohol	0.0281	0.0253	9.96	92	0.00
24	T	MtBE	0.6350	0.6255	1.50	105	0.00
25	T	Hexane	0.3865	0.3399	12.06	97	0.00
26	PT	11dichlorota	0.4792	0.4834	-0.88	110	0.00
27	T	Vinylacetate	0.3950	0.4328	-9.57	105	0.00
28	T	chloroprene	0.3802	0.3968	-4.37	110	0.00
29	T	Diisopether	0.8907	0.9383	-5.34	113	0.00
30	T	ETBE	0.7673	0.7878	-2.67	113	0.00
31	T	22dichloropr	0.3568	0.3518	1.40	105	0.00
32	T	c12dichlorte	0.2926	0.2926	0.00	111	0.00
33	T	2Butanone	0.0220	0.0205	6.82	96	0.00
34	T	propionitrile	0.0288	0.0255	11.46	95	0.00
35	T	Ethylacetate	0.0069	0.0066#	4.35	95	0.00
36	T	methacrylonitrile	0.0829	0.0773	6.76	95	0.00
37	T	Bromochlorma	0.1302	0.1312	-0.77	104	0.00
38	T	Tetrahydofur	0.0692	0.0658	4.91	96	0.00
39	CT	Chloroform	0.4454	0.4571	-2.63	111	0.00
40	T	111trichlota	0.3939	0.4073	-3.40	112	0.00
41	S	SURRDibrflma	0.2461	0.2573	-4.55	111	0.00
42	T	Cyclohexane	0.4160	0.4313	-3.68	108	0.00
43	T	Carbtetraclo	0.3272	0.3455	-5.59	112	0.00
44	T	11dicloprope	0.1251	0.1275	-1.92	110	0.00
45	S	SURR12DCAd4	0.0520	0.0542	-4.23	103	0.00
46	T	Benzene	1.0359	1.0460	-0.97	109	0.00
47	T	12dichlorota	0.3217	0.3203	0.44	106	0.00
48	T	TAME	0.6374	0.6403	-0.45	112	0.00

49	T	trichloroete	0.2661	0.2850	-7.10	122	0.00
50	T	methylcyclohexane	0.4426	0.4633	-4.68	107	0.00
51	CT	12dicloropra	0.2866	0.3077	-7.36	113	0.00
52	T	23dicl1propene	0.3651	0.3614	1.01	110	0.00
53	T	Dibromometha	0.1441	0.1497	-3.89	109	0.00
54	T	methylmethacrylate	0.1352	0.1283	5.10	103	0.00
55	T	14dioxane	0.0024	0.0021#	12.50	87	0.00
56	T	Bromodiclrma	0.3337	0.3394	-1.71	111	0.00
57	T	2Nitropropane	0.0603	0.0570	5.47	98	0.00
58	T	c13dicloproe	0.3935	0.3971	-0.91	109	0.00
59	T	4Meth2Pentan	0.2324	0.2260	2.75	98	0.00
60	S	SURRd8Tolule	0.9998	1.0246	-2.48	107	0.00
61	CT	Toluene	0.6895	0.6773	1.77	108	0.00
62	T	t13Dicloprop	0.3245	0.3271	-0.80	107	0.00
63	T	ethylmethacrylate	0.2835	0.2788	1.66	106	0.00
64	T	112Triclotha	0.1890	0.1976	-4.55	114	0.00
65	T	Tetrachlorte	0.3120	0.3036	2.69	109	0.00
66	T	13Diclorpropa	0.3569	0.3556	0.36	105	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	107	0.00
68	T	2Hexanone	0.2033	0.1960	3.59	98	0.00
69	T	Clorodibrmta	0.3400	0.3353	1.38	112	0.00
70	T	12Dibrometha	0.2922	0.2888	1.16	102	-0.01
71	PT	Chlorobenzen	0.9583	0.9352	2.41	111	0.00
72	T	1Clhexane	0.4187	0.4052	3.22	104	0.00
73	T	1112Tetclota	0.3552	0.3552	0.00	114	0.00
74	CT	Ethylbenzene	1.5565	1.5098	3.00	109	0.00
75	T	m p-Xylene	0.6162	0.6049	1.83	109	0.00
76	T	o-Xylene	0.6249	0.6127	1.95	110	0.00
77	T	Styrene	0.9663	0.9585	0.81	110	0.00
78	PT	Bromoform	0.2145	0.2094	2.38	110	0.00
79	T	Isopropylben	1.5830	1.5710	0.76	110	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	109	0.00
81	T	cyclohexanone	0.0215	0.0179	16.74	87	0.00
82	S	SURR4BrFBenz	0.8202	0.8082	1.46	107	0.00
83	T	Bromobenzene	0.8046	0.7785	3.24	107	0.00
84	PT	1122Tetrclta	0.7038	0.6806	3.30	104	0.00
85	T	123Triclproa	0.8231	0.8828	-7.25	116	0.00
86	T	14dichloro2butene	0.2042	0.2036	0.29	103	0.00
87	T	n-Propylbenz	3.1519	2.9566	6.20	101	0.00
88	T	2chlorotolue	1.9045	1.8185	4.52	108	0.00
89	T	4chlorotolue	2.1355	2.0801	2.59	106	0.00
90	T	135Trimebenz	2.3831	2.3386	1.87	108	0.00
91	T	tbutylbenzen	2.1028	2.0544	2.30	107	0.00
92	T	124Trimetben	2.4360	2.3335	4.21	106	0.00
93	T	sbutylbenzen	3.0572	3.0162	1.34	106	0.00
94	T	13Diclorbenz	1.5018	1.3979	6.92	106	0.00
95	T	pIsopropylto	2.5538	2.4766	3.02	104	0.00
96	T	14dichlorobe	1.4865	1.4226	4.30	108	0.00
97	T	12dichlorobe	1.4468	1.4033	3.01	109	0.00
98	T	nButylbenzen	2.2235	2.1157	4.85	105	0.00
99	T	12dibromo3cl	0.1511	0.1336	11.58	96	0.00
100	T	135Trichlorobenzene	1.1030	1.0099	8.44	103	0.00
101	T	124Trichlobe	0.9853	0.9621	2.35	111	0.00
102	T	Hexachlorobu	0.5975	0.5660	5.27	101	0.00
103	T	Naphthalene	2.2171	2.0435	7.83	101	0.00
104	T	123Trichlben	0.9639	0.9140	5.18	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 13:07:45 2019

Evaluate Continuing Calibration Report

Data File : c:\instarch\data\nov1219b\CCV3.D Vial: 54
Acq On : 14 Nov 2019 8:19 Operator: RLD-DGS
Sample : 166558,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 14 08:40:32 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	0.0200	0.0200	0.00	105	0.00
2	T	Dichlorodi	0.0100	0.0129	-29.00#	138	0.00
3	PT	Chloromethan	0.0100	0.0109	-9.00	124	0.00
4	CT	VinylChlorid	0.0100	0.0107	-7.00	117	0.00
5	T	Bromomethane	0.0100	0.0068	32.00#	64	0.00
6	T	Chloroethane	0.0100	0.0103	-3.00	117	0.00
7	T	dichloroflmethane	0.0100	0.0106	-6.00	115	0.00
8	T	Trichlorofma	0.0100	0.0106	-6.00	107	0.00
9	T	Ethylether	0.0100	0.0100	0.00	107	0.00
10	T	dichlorotfluoroethan	0.0100	0.0106	-6.00	111	0.00
11	T	propyleneoxide	0.1000	0.0897	10.30	85	0.00
12	T	Acrolein	0.0500	0.0466	6.80	95	-0.01
13	CT	11dichlorthe	0.0100	0.0103	-3.00	109	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0213	-6.50	110	0.00
15	T	Acetone	0.1000	0.0945	5.50	101	0.00
16	T	Iodomethane	0.0200	0.0268	-34.00#	197	0.00
17	T	Carbon Dislf	0.0200	0.0208	-4.00	113	0.00
18	T	allylchloride	0.0200	0.0202	-1.00	110	0.00
19	T	methylacetate	0.0100	0.0085	15.00	90	0.00
20	T	Methylchlorid	0.0100	0.0133	-33.00#	147	0.00
21	T	Acrylonitrile	0.0500	0.0458	8.40	91	0.00
22	T	t12dichlorte	0.0100	0.0100	0.00	110	0.00
23	T	tbutylalcohol	0.5000	0.4497	10.06	92	0.00
24	T	MtBE	0.0100	0.0099	1.00	105	0.00
25	T	Hexane	0.0200	0.0176	12.00	97	0.00
26	PT	11dichlorota	0.0100	0.0101	-1.00	110	0.00
27	T	Vinylacetate	0.1000	0.1096	-9.60	105	0.00
28	T	chloroprene	0.0200	0.0209	-4.50	110	0.00
29	T	Diisopether	0.0100	0.0105	-5.00	113	0.00
30	T	ETBE	0.0100	0.0103	-3.00	113	0.00
31	T	22dichloropr	0.0100	0.0099	1.00	105	0.00
32	T	c12dichlorte	0.0100	0.0100	0.00	111	0.00
33	T	2Butanone	0.1000	0.0933	6.70	96	0.00
34	T	propionitrile	0.1000	0.0888	11.20	95	0.00
35	T	Ethylacetate	0.0500	0.0481	3.80	95	0.00
36	T	methacrylonitrile	0.0200	0.0186	7.00	95	0.00
37	T	Bromochlorma	0.0100	0.0101	-1.00	104	0.00
38	T	Tetrahydofur	0.1000	0.0951	4.90	96	0.00
39	CT	Chloroform	0.0100	0.0103	-3.00	111	0.00
40	T	111trichlota	0.0100	0.0103	-3.00	112	0.00
41	S	SURRDibrflma	0.0200	0.0209	-4.50	111	0.00
42	T	Cyclohexane	0.0100	0.0104	-4.00	108	0.00
43	T	Carbtetraclo	0.0100	0.0106	-6.00	112	0.00
44	T	11dicloprope	0.0100	0.0102	-2.00	110	0.00
45	S	SURR12DCAd4	0.0200	0.0209	-4.50	103	0.00
46	T	Benzene	0.0100	0.0101	-1.00	109	0.00
47	T	12dichlorota	0.0100	0.0100	0.00	106	0.00
48	T	TAME	0.0100	0.0100	0.00	112	0.00

49	T	trichloroete	0.0100	0.0107	-7.00	122	0.00
50	T	methylcyclohexane	0.0100	0.0105	-5.00	107	0.00
51	CT	12dicloropra	0.0100	0.0107	-7.00	113	0.00
52	T	23dicl1propene	0.0100	0.0099	1.00	110	0.00
53	T	Dibromometha	0.0100	0.0104	-4.00	109	0.00
54	T	methylmethacrylate	0.0100	0.0095	5.00	103	0.00
55	T	14dioxane	0.5000	0.4245	15.10	87	0.00
56	T	Bromodiclrma	0.0100	0.0102	-2.00	111	0.00
57	T	2Nitropropane	0.1000	0.0945	5.50	98	0.00
58	T	c13dicloproe	0.0100	0.0101	-1.00	109	0.00
59	T	4Meth2Pentan	0.1000	0.0973	2.70	98	0.00
60	S	SURRd8Tolule	0.0200	0.0205	-2.50	107	0.00
61	CT	Toluene	0.0100	0.0098	2.00	108	0.00
62	T	t13Dicloprop	0.0100	0.0101	-1.00	107	0.00
63	T	ethylmethacrylate	0.0200	0.0197	1.50	106	0.00
64	T	112Triclotha	0.0100	0.0105	-5.00	114	0.00
65	T	Tetrachlorte	0.0100	0.0097	3.00	109	0.00
66	T	13Diclorpropa	0.0100	0.0100	0.00	105	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	107	0.00
68	T	2Hexanone	0.1000	0.0964	3.60	98	0.00
69	T	Clorodibrmta	0.0100	0.0099	1.00	112	0.00
70	T	12Dibrometha	0.0100	0.0099	1.00	102	-0.01
71	PT	Chlorobenzen	0.0100	0.0098	2.00	111	0.00
72	T	1Clhexane	0.0100	0.0097	3.00	104	0.00
73	T	1112Tetclota	0.0100	0.0100	0.00	114	0.00
74	CT	Ethylbenzene	0.0100	0.0097	3.00	109	0.00
75	T	m p-Xylene	0.0200	0.0196	2.00	109	0.00
76	T	o-Xylene	0.0100	0.0098	2.00	110	0.00
77	T	Styrene	0.0100	0.0099	1.00	110	0.00
78	PT	Bromoform	0.0100	0.0098	2.00	110	0.00
79	T	Isopropylben	0.0100	0.0099	1.00	110	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	109	0.00
81	T	cyclohexanone	0.2000	0.1666	16.70	87	0.00
82	S	SURR4BrFBenz	0.0200	0.0197	1.50	107	0.00
83	T	Bromobenzene	0.0100	0.0097	3.00	107	0.00
84	PT	1122Tetrclta	0.0100	0.0097	3.00	104	0.00
85	T	123Triclproa	0.0100	0.0107	-7.00	116	0.00
86	T	14dichloro2butene	0.0100	0.0100	0.00	103	0.00
87	T	n-Propylbenz	0.0100	0.0094	6.00	101	0.00
88	T	2chlorotolue	0.0100	0.0095	5.00	108	0.00
89	T	4chlorotolue	0.0100	0.0097	3.00	106	0.00
90	T	135Trimebenz	0.0100	0.0098	2.00	108	0.00
91	T	tbutylbenzen	0.0100	0.0098	2.00	107	0.00
92	T	124Trimetben	0.0100	0.0096	4.00	106	0.00
93	T	sbutylbenzen	0.0100	0.0099	1.00	106	0.00
94	T	13Diclorbenz	0.0100	0.0093	7.00	106	0.00
95	T	pIsopropylto	0.0100	0.0097	3.00	104	0.00
96	T	14dichlorobe	0.0100	0.0096	4.00	108	0.00
97	T	12dichlorobe	0.0100	0.0097	3.00	109	0.00
98	T	nButylbenzen	0.0100	0.0095	5.00	105	0.00
99	T	12dibromo3cl	0.0100	0.0088	12.00	96	0.00
100	T	135Trichlorobenzene	0.0100	0.0092	8.00	103	0.00
101	T	124Trichlobe	0.0100	0.0098	2.00	111	0.00
102	T	Hexachlorobu	0.0100	0.0095	5.00	101	0.00
103	T	Naphthalene	0.0100	0.0092	8.00	101	0.00
104	T	123Trichlben	0.0100	0.0095	5.00	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 13:08:07 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCV3.D Vial: 54
Acq On : 14 Nov 2019 8:19 Operator: RLD-DGS
Sample : 166558,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 08:40:32 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	932393	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	737222	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	406728	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	239935	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.25	102	50560	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.67	98	955292	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	328722	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	160289	0.0129	mg/kg	100
3) Chloromethan	2.06	50	174469	0.0109	mg/kg	99
4) VinylChlorid	2.21	62	149129	0.0107	mg/kg	97
5) Bromomethane	2.68	94	54704	0.0068	mg/kg	88
6) Chloroethane	2.83	64	83651	0.0103	mg/kg	98
7) dichloroflmethane	3.14	67	215867	0.0106	mg/kg	98
8) Trichlorofma	3.21	101	187261	0.0106	mg/kg	99
9) Ethylether	3.66	59	97723	0.0100	mg/kg	96
10) dichlorotfluoroethan	3.68	67	131760	0.0106	mg/kg	98
11) propyleneoxide	3.72	58	147038	0.0897	mg/kg	98
12) Acrolein	3.81	56	101242	0.0466	mg/kg	97
13) 11dichlorthe	3.94	96	111419	0.0103	mg/kg	97
14) Trichlorotfluoroeth	3.97	101	212006	0.0213	mg/kg	97
15) Acetone	4.04	43	293621	0.0945	mg/kg	98
16) Iodomethane	4.12	142	183629	0.0268	mg/kg	96
17) Carbon Dislf	4.20	76	662056	0.0208	mg/kg	99
18) allylchloride	4.43	41	439067	0.0202	mg/kg	98
19) methylacetate	4.50	74	29164	0.0085	mg/kg	98
20) Methylchlorid	4.60	84	178068	0.0133	mg/kg	98
21) Acrylonitrile	4.93	53	154479	0.0458	mg/kg	97
22) t12dichlorte	4.96	96	123356	0.0100	mg/kg	98
23) tbutylalcohol	4.80	59	588879	0.4497	mg/kg	99
24) MtBE	4.98	73	291584	0.0099	mg/kg	98
25) Hexane	5.33	57	316888	0.0176	mg/kg	99
26) 11dichlorota	5.49	63	225350	0.0101	mg/kg	98
27) Vinylacetate	5.59	43	2017721	0.1096	mg/kg	98
28) chloroprene	5.61	53	369951	0.0209	mg/kg	99
29) Diisopether	5.61	45	437416	0.0105	mg/kg#	86
30) ETBE	6.06	59	367276	0.0103	mg/kg	99
31) 22dichloropr	6.22	77	164016	0.0099	mg/kg	99
32) c12dichlorte	6.24	96	136424	0.0100	mg/kg	99
33) 2Butanone	6.26	72	95767	0.0933	mg/kg	93
34) propionitrile	6.33	54	119091	0.0888	mg/kg	97
35) Ethylacetate	6.36	88	15409	0.0481	mg/kg#	90
36) methacrylonitrile	6.52	67	72035	0.0186	mg/kg	99
37) Bromochlorma	6.52	128	61146	0.0101	mg/kg	92
38) Tetrahydofur	6.59	42	306793	0.0951	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCV3.D Vial: 54
Acq On : 14 Nov 2019 8:19 Operator: RLD-DGS
Sample : 166558,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 08:40:32 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	213120	0.0103 mg/kg	97
40)	111trichlota	6.85	97	189881	0.0103 mg/kg	95
42)	Cyclohexane	6.92	56	201061	0.0104 mg/kg	99
43)	Carbtetraclo	7.06	119	161074	0.0106 mg/kg	96
44)	11dicloprope	7.06	110	59437	0.0102 mg/kg	95
46)	Benzene	7.31	78	487662	0.0101 mg/kg	97
47)	12dichlorota	7.34	62	149300	0.0100 mg/kg	98
48)	TAME	7.46	73	298520	0.0100 mg/kg	100
49)	trichloroete	8.12	95	132887	0.0107 mg/kg	93
50)	methylcyclohexane	8.36	83	216006	0.0105 mg/kg	98
51)	12dicloropra	8.39	63	143431	0.0107 mg/kg	99
52)	23dicl1propene	8.46	75	168493	0.0099 mg/kg	99
53)	Dibromometha	8.55	93	69781	0.0104 mg/kg	86
54)	methylmethacrylate	8.57	69	59817	0.0095 mg/kg	98
55)	14dioxane	8.58	88	48476	0.4245 mg/kg	95
56)	Bromodiclrma	8.74	83	158213	0.0102 mg/kg	96
57)	2Nitropropane	9.02	43	265654	0.0945 mg/kg	98
58)	c13dicloproe	9.32	75	185135	0.0101 mg/kg	98
59)	4Meth2Pentan	9.51	43	1053781	0.0973 mg/kg	98
61)	Toluene	9.75	92	315755	0.0098 mg/kg	96
62)	t13Dicloprop	10.04	75	152484	0.0101 mg/kg	99
63)	ethylmethacrylate	10.17	69	259967	0.0197 mg/kg	99
64)	112Triclotha	10.27	83	92112	0.0105 mg/kg	95
65)	Tetrachlorte	10.48	166	141518	0.0097 mg/kg	97
66)	13Diclorpropa	10.50	76	165774	0.0100 mg/kg	96
68)	2Hexanone	10.61	43	722648	0.0964 mg/kg	99
69)	Clorodibrmta	10.80	129	123610	0.0099 mg/kg	98
70)	12Dibrometha	10.94	107	106440	0.0099 mg/kg	98
71)	Chlorobenzen	11.63	112	344741	0.0098 mg/kg	98
72)	1Clhexane	11.59	91	149359	0.0097 mg/kg	96
73)	1112Tetclota	11.73	131	130923	0.0100 mg/kg	100
74)	Ethylbenzene	11.78	91	556520	0.0097 mg/kg	99
75)	m p-Xylene	11.94	106	445973	0.0196 mg/kg	99
76)	o-Xylene	12.49	106	225861	0.0098 mg/kg	96
77)	Styrene	12.51	104	353316	0.0099 mg/kg	99
78)	Bromoform	12.76	173	77174	0.0098 mg/kg	96
79)	Isopropylben	13.01	105	579070	0.0099 mg/kg	99
81)	cyclohexanone	13.13	55	72674	0.1666 mg/kg	96
83)	Bromobenzene	13.44	156	158321	0.0097 mg/kg	98
84)	1122Tetrclta	13.42	83	138406	0.0097 mg/kg	94
85)	123Triclproa	13.48	75	179538	0.0107 mg/kg	92
86)	14dichloro2butene	13.52	53	41409	0.0100 mg/kg#	73
87)	n-Propylbenz	13.60	91	601266	0.0094 mg/kg	97
88)	2chlorotolue	13.72	91	369809	0.0095 mg/kg	100
89)	4chlorotolue	13.88	91	423010	0.0097 mg/kg	98
90)	135Trimebenz	13.86	105	475587	0.0098 mg/kg	100
91)	tbutylbenzen	14.32	119	417789	0.0098 mg/kg	98
92)	124Trimetben	14.39	105	474558	0.0096 mg/kg	99
93)	sbutylbenzen	14.64	105	613379	0.0099 mg/kg	99
94)	13Diclorbenz	14.79	146	284282	0.0093 mg/kg	99
95)	pIsopropylto	14.86	119	503655	0.0097 mg/kg	97
96)	14dichlorobe	14.92	146	289308	0.0096 mg/kg	97
97)	12dichlorobe	15.46	146	285372	0.0097 mg/kg	99
98)	nButylbenzen	15.46	91	430250	0.0095 mg/kg	98
99)	12dibromo3cl	16.58	157	27169	0.0088 mg/kg	98
100)	135Trichlorobenzene	16.88	180	205378	0.0092 mg/kg	96
101)	124Trichlobe	17.70	180	195655	0.0098 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCV3.D Vial: 54
Acq On : 14 Nov 2019 8:19 Operator: RLD-DGS
Sample : 166558,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 08:40:32 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

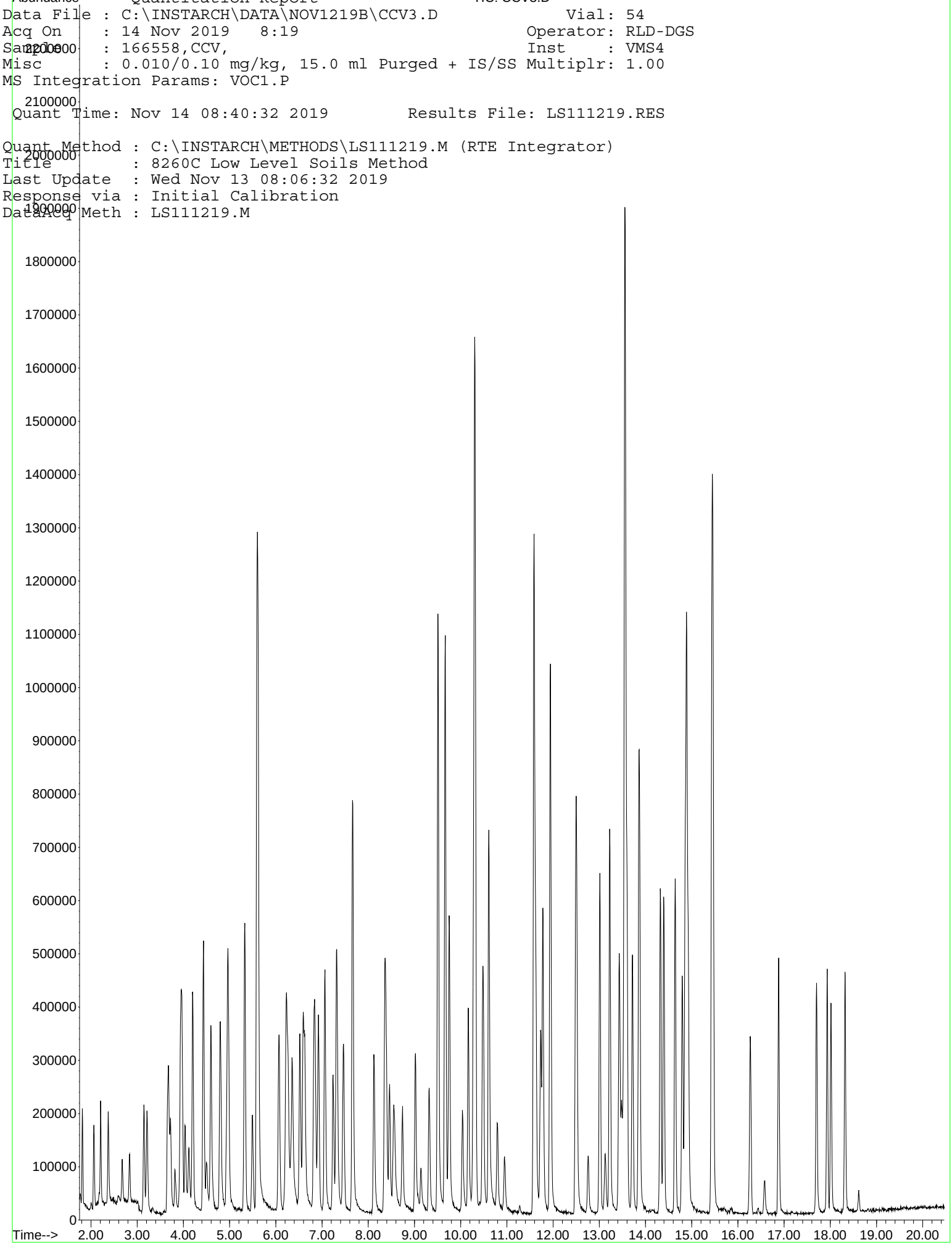
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	115110	0.0095	mg/kg	99
103)	Naphthalene	18.01	128	415584	0.0092	mg/kg	98
104)	123Trichlben	18.32	180	185873	0.0095	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219B\CCV3.D Vial: 54
Acq On : 14 Nov 2019 8:19 Operator: RLD-DGS
Sample : 166558,CCV, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 08:40:32 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Evaluate Continuing Calibration Report

Data File : c:\instarch\data\nov1219b\CCVF3.D Vial: 72
Acq On : 14 Nov 2019 17:02 Operator: RLD-DGS
Sample : 166558,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 14 17:22:54 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	103	0.00
2	T	Dichlorodi	0.2663	0.2608	2.07	103	0.00
3	PT	Chloromethan	0.3437	0.3454	-0.49	112	0.00
4	CT	VinylChlorid	0.3001	0.2946	1.83	106	0.00
5	T	Bromomethane	0.1613	0.1273	21.08	68	0.00
6	T	Chloroethane	0.1746	0.1639	6.13	105	0.00
7	T	dichloroflmethane	0.4366	0.4216	3.44	103	0.00
8	T	Trichlorofma	0.3783	0.3658	3.30	96	0.00
9	T	Ethylether	0.2091	0.2078	0.62	104	0.00
10	T	dichlorotfluoroethan	0.2664	0.2694	-1.13	104	0.00
11	T	propyleneoxide	0.0352	0.0324	7.95	86	0.00
12	T	Acrolein	0.0466	0.0419	10.09	90	0.00
13	CT	11dichlorthe	0.2315	0.2158	6.78	97	0.00
14	T	Trichlorotfluoroeth	0.2134	0.2179	-2.11	103	0.00
15	T	Acetone	0.0667	0.0565	15.29	89	0.00
16	T	Iodomethane	0.1640	0.1884	-14.88	186	0.00
17	T	Carbon Dislf	0.6828	0.6630	2.90	104	0.00
18	T	allylchloride	0.4665	0.4456	4.48	102	0.00
19	T	methylacetate	0.0737	0.0652	11.53	93	0.00
20	T	Methylchlorid	0.3214	0.3309	-2.96	125	0.00
21	T	Acrylonitrile	0.0723	0.0663	8.30	90	0.00
22	T	t12dichlorte	0.2642	0.2455	7.08	101	0.00
23	T	tbutylalcohol	0.0281	0.0240	14.59	86	0.00
24	T	MtBE	0.6350	0.6316	0.54	104	0.00
25	T	Hexane	0.3865	0.3350	13.32	94	0.00
26	PT	11dichlorota	0.4792	0.4750	0.88	107	0.00
27	T	Vinylacetate	0.3950	0.4127	-4.48	98	0.00
28	T	chloroprene	0.3802	0.3830	-0.74	104	0.00
29	T	Diisopether	0.8907	0.9339	-4.85	111	0.00
30	T	ETBE	0.7673	0.7661	0.16	108	0.00
31	T	22dichloropr	0.3568	0.3231	9.45	95	0.00
32	T	c12dichlorte	0.2926	0.2777	5.09	103	0.00
33	T	2Butanone	0.0220	0.0201	8.64	92	0.00
34	T	propionitrile	0.0288	0.0248	13.89	90	0.00
35	T	Ethylacetate	0.0069	0.0067#	2.90	94	0.00
36	T	methacrylonitrile	0.0829	0.0770	7.12	93	0.00
37	T	Bromochlorma	0.1302	0.1379	-5.91	108	0.01
38	T	Tetrahydofur	0.0692	0.0646	6.65	93	0.00
39	CT	Chloroform	0.4454	0.4409	1.01	105	0.00
40	T	111trichlota	0.3939	0.3791	3.76	102	0.00
41	S	SURRDibrflma	0.2461	0.2521	-2.44	107	0.00
42	T	Cyclohexane	0.4160	0.4163	-0.07	103	0.00
43	T	Carbtetraclo	0.3272	0.3191	2.48	102	0.00
44	T	11dicloprope	0.1251	0.1205	3.68	103	0.00
45	S	SURR12DCAd4	0.0520	0.0521	-0.19	97	0.00
46	T	Benzene	1.0359	0.9897	4.46	101	0.00
47	T	12dichlorota	0.3217	0.3133	2.61	102	0.00
48	T	TAME	0.6374	0.6379	-0.08	109	0.00

49	T	trichloroete	0.2661	0.2441	8.27	103	0.00
50	T	methylcyclohexane	0.4426	0.4404	0.50	100	0.00
51	CT	12dicloropra	0.2866	0.2872	-0.21	104	0.00
52	T	23dicl1propene	0.3651	0.3502	4.08	105	0.00
53	T	Dibromometha	0.1441	0.1515	-5.14	109	0.00
54	T	methylmethacrylate	0.1352	0.1238	8.43	98	0.00
55	T	14dioxane	0.0024	0.0020#	16.67	83	0.00
56	T	Bromodiclrma	0.3337	0.3242	2.85	105	0.00
57	T	2Nitropropane	0.0603	0.0537	10.95	91	0.00
58	T	c13dicloproe	0.3935	0.3616	8.11	98	0.00
59	T	4Meth2Pentan	0.2324	0.2256	2.93	96	0.00
60	S	SURRd8Tolule	0.9998	1.0123	-1.25	104	0.00
61	CT	Toluene	0.6895	0.6456	6.37	102	0.00
62	T	t13Dicloprop	0.3245	0.3183	1.91	103	0.00
63	T	ethylmethacrylate	0.2835	0.2770	2.29	103	0.00
64	T	112Triclotha	0.1890	0.1881	0.48	107	0.00
65	T	Tetrachlorte	0.3120	0.2700	13.46	96	0.00
66	T	13Diclorpropa	0.3569	0.3552	0.48	104	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	106	0.00
68	T	2Hexanone	0.2033	0.1948	4.18	97	0.00
69	T	Clorodibrmta	0.3400	0.3287	3.32	109	0.00
70	T	12Dibrometha	0.2922	0.2734	6.43	97	0.00
71	PT	Chlorobenzen	0.9583	0.8736	8.84	103	0.00
72	T	1Clhexane	0.4187	0.3726	11.01	96	0.00
73	T	1112Tetclota	0.3552	0.3324	6.42	106	0.00
74	CT	Ethylbenzene	1.5565	1.4103	9.39	101	0.00
75	T	m p-Xylene	0.6162	0.5558	9.80	100	0.00
76	T	o-Xylene	0.6249	0.5474	12.40	98	0.00
77	T	Styrene	0.9663	0.8781	9.13	100	0.00
78	PT	Bromoform	0.2145	0.1876	12.54	98	0.00
79	T	Isopropylben	1.5830	1.4365	9.25	100	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	108	0.00
81	T	cyclohexanone	0.0215	0.0183	14.88	88	0.00
82	S	SURR4BrFBenz	0.8202	0.8041	1.96	105	0.00
83	T	Bromobenzene	0.8046	0.7480	7.03	101	0.00
84	PT	1122Tetrclta	0.7038	0.6685	5.02	100	0.00
85	T	123Triclproa	0.8231	0.8288	-0.69	107	0.00
86	T	14dichloro2butene	0.2042	0.1591	22.09	79	0.00
87	T	n-Propylbenz	3.1519	2.7679	12.18	93	0.00
88	T	2chlorotolue	1.9045	1.7213	9.62	100	0.00
89	T	4chlorotolue	2.1355	1.9103	10.55	96	0.00
90	T	135Trimebenz	2.3831	2.1014	11.82	96	0.00
91	T	tbutylbenzen	2.1028	1.9233	8.54	98	0.00
92	T	124Trimetben	2.4360	2.1620	11.25	97	0.00
93	T	sbutylbenzen	3.0572	2.8094	8.11	97	0.00
94	T	13Diclorbenz	1.5018	1.2908	14.05	97	0.00
95	T	pIsopropylto	2.5538	2.2762	10.87	94	0.00
96	T	14dichlorobe	1.4865	1.3042	12.26	98	0.00
97	T	12dichlorobe	1.4468	1.3295	8.11	102	0.00
98	T	nButylbenzen	2.2235	1.8696	15.92	92	0.00
99	T	12dibromo3cl	0.1511	0.1317	12.84	93	0.00
100	T	135Trichlorobenzene	1.1030	0.8763	20.55	88	0.00
101	T	124Trichlobe	0.9853	0.8301	15.75	94	0.00
102	T	Hexachlorobu	0.5975	0.5195	13.05	91	0.00
103	T	Naphthalene	2.2171	2.0221	8.80	98	0.00
104	T	123Trichlben	0.9639	0.8541	11.39	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 13:10:10 2019

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF3.D Vial: 72
Acq On : 14 Nov 2019 17:02 Operator: RLD-DGS
Sample : 166558,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 14 17:22:54 2019

Quant Method : C:\INSTARCH\METHODS\LS111219.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS111219.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	0.0200	0.0200	0.00	103	0.00
2	T	Dichlorodi	0.0100	0.0098	2.00	103	0.00
3	PT	Chloromethan	0.0100	0.0100	0.00	112	0.00
4	CT	VinylChlorid	0.0100	0.0098	2.00	106	0.00
5	T	Bromomethane	0.0100	0.0075	25.00#	68	0.00
6	T	Chloroethane	0.0100	0.0094	6.00	105	0.00
7	T	dichloroflmethane	0.0100	0.0097	3.00	103	0.00
8	T	Trichlorofma	0.0100	0.0097	3.00	96	0.00
9	T	Ethylether	0.0100	0.0099	1.00	104	0.00
10	T	dichlorotfluoroethan	0.0100	0.0101	-1.00	104	0.00
11	T	propyleneoxide	0.1000	0.0922	7.80	86	0.00
12	T	Acrolein	0.0500	0.0449	10.20	90	0.00
13	CT	11dichlorthe	0.0100	0.0093	7.00	97	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0204	-2.00	103	0.00
15	T	Acetone	0.1000	0.0848	15.20	89	0.00
16	T	Iodomethane	0.0200	0.0259	-29.50#	186	0.00
17	T	Carbon Dislf	0.0200	0.0194	3.00	104	0.00
18	T	allylchloride	0.0200	0.0191	4.50	102	0.00
19	T	methylacetate	0.0100	0.0088	12.00	93	0.00
20	T	Methylchlorid	0.0100	0.0114	-14.00	125	0.00
21	T	Acrylonitrile	0.0500	0.0458	8.40	90	0.00
22	T	t12dichlorte	0.0100	0.0093	7.00	101	0.00
23	T	tbutylalcohol	0.5000	0.4271	14.58	86	0.00
24	T	MtBE	0.0100	0.0099	1.00	104	0.00
25	T	Hexane	0.0200	0.0173	13.50	94	0.00
26	PT	11dichlorota	0.0100	0.0099	1.00	107	0.00
27	T	Vinylacetate	0.1000	0.1045	-4.50	98	0.00
28	T	chloroprene	0.0200	0.0201	-0.50	104	0.00
29	T	Diisopether	0.0100	0.0105	-5.00	111	0.00
30	T	ETBE	0.0100	0.0100	0.00	108	0.00
31	T	22dichloropr	0.0100	0.0091	9.00	95	0.00
32	T	c12dichlorte	0.0100	0.0095	5.00	103	0.00
33	T	2Butanone	0.1000	0.0912	8.80	92	0.00
34	T	propionitrile	0.1000	0.0861	13.90	90	0.00
35	T	Ethylacetate	0.0500	0.0485	3.00	94	0.00
36	T	methacrylonitrile	0.0200	0.0186	7.00	93	0.00
37	T	Bromochlorma	0.0100	0.0106	-6.00	108	0.01
38	T	Tetrahydofur	0.1000	0.0933	6.70	93	0.00
39	CT	Chloroform	0.0100	0.0099	1.00	105	0.00
40	T	111trichlota	0.0100	0.0096	4.00	102	0.00
41	S	SURRDibrflma	0.0200	0.0205	-2.50	107	0.00
42	T	Cyclohexane	0.0100	0.0100	0.00	103	0.00
43	T	Carbtetraclo	0.0100	0.0098	2.00	102	0.00
44	T	11dicloprope	0.0100	0.0096	4.00	103	0.00
45	S	SURR12DCAd4	0.0200	0.0200	0.00	97	0.00
46	T	Benzene	0.0100	0.0096	4.00	101	0.00
47	T	12dichlorota	0.0100	0.0097	3.00	102	0.00
48	T	TAME	0.0100	0.0100	0.00	109	0.00

49	T	trichloroete	0.0100	0.0092	8.00	103	0.00
50	T	methylcyclohexane	0.0100	0.0100	0.00	100	0.00
51	CT	12dicloropra	0.0100	0.0100	0.00	104	0.00
52	T	23dicl1propene	0.0100	0.0096	4.00	105	0.00
53	T	Dibromometha	0.0100	0.0105	-5.00	109	0.00
54	T	methylmethacrylate	0.0100	0.0092	8.00	98	0.00
55	T	14dioxane	0.5000	0.4116	17.68	83	0.00
56	T	Bromodiclrma	0.0100	0.0097	3.00	105	0.00
57	T	2Nitropropane	0.1000	0.0891	10.90	91	0.00
58	T	c13dicloproe	0.0100	0.0092	8.00	98	0.00
59	T	4Meth2Pentan	0.1000	0.0971	2.90	96	0.00
60	S	SURRd8Tolule	0.0200	0.0203	-1.50	104	0.00
61	CT	Toluene	0.0100	0.0094	6.00	102	0.00
62	T	t13Dicloprop	0.0100	0.0098	2.00	103	0.00
63	T	ethylmethacrylate	0.0200	0.0195	2.50	103	0.00
64	T	112Triclotha	0.0100	0.0099	1.00	107	0.00
65	T	Tetrachlorte	0.0100	0.0087	13.00	96	0.00
66	T	13Diclorpropa	0.0100	0.0100	0.00	104	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	106	0.00
68	T	2Hexanone	0.1000	0.0958	4.20	97	0.00
69	T	Clorodibrmta	0.0100	0.0097	3.00	109	0.00
70	T	12Dibrometha	0.0100	0.0094	6.00	97	0.00
71	PT	Chlorobenzen	0.0100	0.0091	9.00	103	0.00
72	T	1Clhexane	0.0100	0.0089	11.00	96	0.00
73	T	1112Tetclota	0.0100	0.0094	6.00	106	0.00
74	CT	Ethylbenzene	0.0100	0.0091	9.00	101	0.00
75	T	m p-Xylene	0.0200	0.0180	10.00	100	0.00
76	T	o-Xylene	0.0100	0.0088	12.00	98	0.00
77	T	Styrene	0.0100	0.0091	9.00	100	0.00
78	PT	Bromoform	0.0100	0.0087	13.00	98	0.00
79	T	Isopropylben	0.0100	0.0091	9.00	100	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	108	0.00
81	T	cyclohexanone	0.2000	0.1707	14.65	88	0.00
82	S	SURR4BrFBenz	0.0200	0.0196	2.00	105	0.00
83	T	Bromobenzene	0.0100	0.0093	7.00	101	0.00
84	PT	1122Tetrclta	0.0100	0.0095	5.00	100	0.00
85	T	123Triclproa	0.0100	0.0101	-1.00	107	0.00
86	T	14dichloro2butene	0.0100	0.0078	22.00	79	0.00
87	T	n-Propylbenz	0.0100	0.0088	12.00	93	0.00
88	T	2chlorotolue	0.0100	0.0090	10.00	100	0.00
89	T	4chlorotolue	0.0100	0.0089	11.00	96	0.00
90	T	135Trimebenz	0.0100	0.0088	12.00	96	0.00
91	T	tbutylbenzen	0.0100	0.0091	9.00	98	0.00
92	T	124Trimetben	0.0100	0.0089	11.00	97	0.00
93	T	sbutylbenzen	0.0100	0.0092	8.00	97	0.00
94	T	13Diclorbenz	0.0100	0.0086	14.00	97	0.00
95	T	pIsopropylto	0.0100	0.0089	11.00	94	0.00
96	T	14dichlorobe	0.0100	0.0088	12.00	98	0.00
97	T	12dichlorobe	0.0100	0.0092	8.00	102	0.00
98	T	nButylbenzen	0.0100	0.0084	16.00	92	0.00
99	T	12dibromo3cl	0.0100	0.0087	13.00	93	0.00
100	T	135Trichlorobenzene	0.0100	0.0079	21.00	88	0.00
101	T	124Trichlobe	0.0100	0.0084	16.00	94	0.00
102	T	Hexachlorobu	0.0100	0.0087	13.00	91	0.00
103	T	Naphthalene	0.0100	0.0091	9.00	98	0.00
104	T	123Trichlben	0.0100	0.0089	11.00	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS111219.M Mon Dec 02 14:30:39 2019

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF3.D Vial: 72
Acq On : 14 Nov 2019 17:02 Operator: RLD-DGS
Sample : 166558,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 17:22:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	917211	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	733663	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	400517	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	231190	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	47751	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.67	98	928518	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	322061	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	119602	0.0098	mg/kg	98
3) Chloromethan	2.07	50	158382	0.0100	mg/kg	98
4) VinylChlorid	2.21	62	135122	0.0098	mg/kg	98
5) Bromomethane	2.68	94	58393	0.0075	mg/kg	98
6) Chloroethane	2.83	64	75184	0.0094	mg/kg	98
7) dichloroflmethane	3.14	67	193369	0.0097	mg/kg	99
8) Trichlorofma	3.21	101	167756	0.0097	mg/kg	97
9) Ethylether	3.66	59	95312	0.0099	mg/kg	95
10) dichlorotfluoroethan	3.68	67	123547	0.0101	mg/kg	98
11) propyleneoxide	3.72	58	148780	0.0922	mg/kg	95
12) Acrolein	3.82	56	95992	0.0449	mg/kg	94
13) 11dichlorthe	3.94	96	98964	0.0093	mg/kg	92
14) Trichlorotfluoroeth	3.96	101	199845	0.0204	mg/kg	96
15) Acetone	4.03	43	259194	0.0848	mg/kg	99
16) Iodomethane	4.12	142	172769	0.0259	mg/kg	98
17) Carbon Dislf	4.20	76	608108	0.0194	mg/kg	99
18) allylchloride	4.43	41	408670	0.0191	mg/kg	98
19) methylacetate	4.51	74	29891	0.0088	mg/kg	89
20) Methylchlorid	4.60	84	151775	0.0114	mg/kg	96
21) Acrylonitrile	4.93	53	151932	0.0458	mg/kg	95
22) t12dichlorte	4.96	96	112574	0.0093	mg/kg	99
23) tbutylalcohol	4.80	59	550181	0.4271	mg/kg	97
24) MtBE	4.98	73	289653	0.0099	mg/kg	99
25) Hexane	5.33	57	307221	0.0173	mg/kg	98
26) 11dichlorota	5.49	63	217857	0.0099	mg/kg	97
27) Vinylacetate	5.59	43	1892667	0.1045	mg/kg	99
28) chloroprene	5.61	53	351331	0.0201	mg/kg	99
29) Diisopether	5.61	45	428291	0.0105	mg/kg#	80
30) ETBE	6.07	59	351333	0.0100	mg/kg	98
31) 22dichloropr	6.22	77	148175	0.0091	mg/kg	98
32) c12dichlorte	6.24	96	127357	0.0095	mg/kg	99
33) 2Butanone	6.27	72	92038	0.0912	mg/kg	94
34) propionitrile	6.34	54	113592	0.0861	mg/kg	97
35) Ethylacetate	6.35	88	15260	0.0485	mg/kg	94
36) methacrylonitrile	6.52	67	70631	0.0186	mg/kg	96
37) Bromochlorma	6.53	128	63237	0.0106	mg/kg	98
38) Tetrahydofur	6.59	42	296265	0.0933	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF3.D Vial: 72
Acq On : 14 Nov 2019 17:02 Operator: RLD-DGS
Sample : 166558,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 17:22:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	202207	0.0099 mg/kg	97
40)	111trichlota	6.85	97	173863	0.0096 mg/kg	98
42)	Cyclohexane	6.92	56	190936	0.0100 mg/kg	98
43)	Carbtetraclo	7.06	119	146356	0.0098 mg/kg	99
44)	11dicloprope	7.06	110	55251	0.0096 mg/kg	95
46)	Benzene	7.31	78	453889	0.0096 mg/kg	95
47)	12dichlorota	7.33	62	143692	0.0097 mg/kg	99
48)	TAME	7.47	73	292566	0.0100 mg/kg	99
49)	trichloroete	8.12	95	111936	0.0092 mg/kg	97
50)	methylcyclohexane	8.36	83	201969	0.0100 mg/kg	97
51)	12dicloropra	8.39	63	131721	0.0100 mg/kg	95
52)	23dicl1propene	8.46	75	160591	0.0096 mg/kg	98
53)	Dibromometha	8.55	93	69479	0.0105 mg/kg	93
54)	methylmethacrylate	8.57	69	56781	0.0092 mg/kg	97
55)	14dioxane	8.58	88	46231	0.4116 mg/kg	97
56)	Bromodiclrma	8.74	83	148701	0.0097 mg/kg	98
57)	2Nitropropane	9.02	43	246246	0.0891 mg/kg	96
58)	c13dicloproe	9.32	75	165818	0.0092 mg/kg	96
59)	4Meth2Pentan	9.51	43	1034754	0.0971 mg/kg	98
61)	Toluene	9.75	92	296061	0.0094 mg/kg	99
62)	t13Dicloprop	10.04	75	145964	0.0098 mg/kg	99
63)	ethylmethacrylate	10.17	69	254076	0.0195 mg/kg	98
64)	112Triclotha	10.27	83	86245	0.0099 mg/kg#	90
65)	Tetrachlorte	10.48	166	123808	0.0087 mg/kg	96
66)	13Diclorpropa	10.50	76	162891	0.0100 mg/kg	98
68)	2Hexanone	10.61	43	714634	0.0958 mg/kg	97
69)	Clorodibrmta	10.80	129	120575	0.0097 mg/kg	99
70)	12Dibrometha	10.95	107	100307	0.0094 mg/kg	95
71)	Chlorobenzen	11.63	112	320471	0.0091 mg/kg	99
72)	1Clhexane	11.59	91	136673	0.0089 mg/kg	99
73)	1112Tetclota	11.73	131	121944	0.0094 mg/kg	99
74)	Ethylbenzene	11.78	91	517337	0.0091 mg/kg	100
75)	m p-Xylene	11.94	106	407748	0.0180 mg/kg	97
76)	o-Xylene	12.50	106	200808	0.0088 mg/kg	99
77)	Styrene	12.51	104	322124	0.0091 mg/kg	99
78)	Bromoform	12.76	173	68825	0.0087 mg/kg	97
79)	Isopropylben	13.01	105	526943	0.0091 mg/kg	100
81)	cyclohexanone	13.13	55	73320	0.1707 mg/kg	99
83)	Bromobenzene	13.44	156	149798	0.0093 mg/kg	100
84)	1122Tetrclta	13.43	83	133865	0.0095 mg/kg	98
85)	123Triclproa	13.49	75	165979	0.0101 mg/kg	99
86)	14dichloro2butene	13.52	53	31859	0.0078 mg/kg#	66
87)	n-Propylbenz	13.60	91	554297	0.0088 mg/kg	97
88)	2chlorotolue	13.72	91	344701	0.0090 mg/kg	99
89)	4chlorotolue	13.88	91	382544	0.0089 mg/kg	98
90)	135Trimebenz	13.86	105	420814	0.0088 mg/kg	100
91)	tbutylbenzen	14.33	119	385157	0.0091 mg/kg	99
92)	124Trimetben	14.40	105	432960	0.0089 mg/kg	100
93)	sbutylbenzen	14.64	105	562599	0.0092 mg/kg	99
94)	13Diclorbenz	14.79	146	258485	0.0086 mg/kg	99
95)	pIsopropylto	14.86	119	455820	0.0089 mg/kg	99
96)	14dichlorobe	14.92	146	261182	0.0088 mg/kg	98
97)	12dichlorobe	15.46	146	266246	0.0092 mg/kg	99
98)	nButylbenzen	15.46	91	374410	0.0084 mg/kg	100
99)	12dibromo3cl	16.58	157	26365	0.0087 mg/kg	100
100)	135Trichlorobenzene	16.88	180	175491	0.0079 mg/kg	99
101)	124Trichlobe	17.70	180	166228	0.0084 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF3.D Vial: 72
Acq On : 14 Nov 2019 17:02 Operator: RLD-DGS
Sample : 166558,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 17:22:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

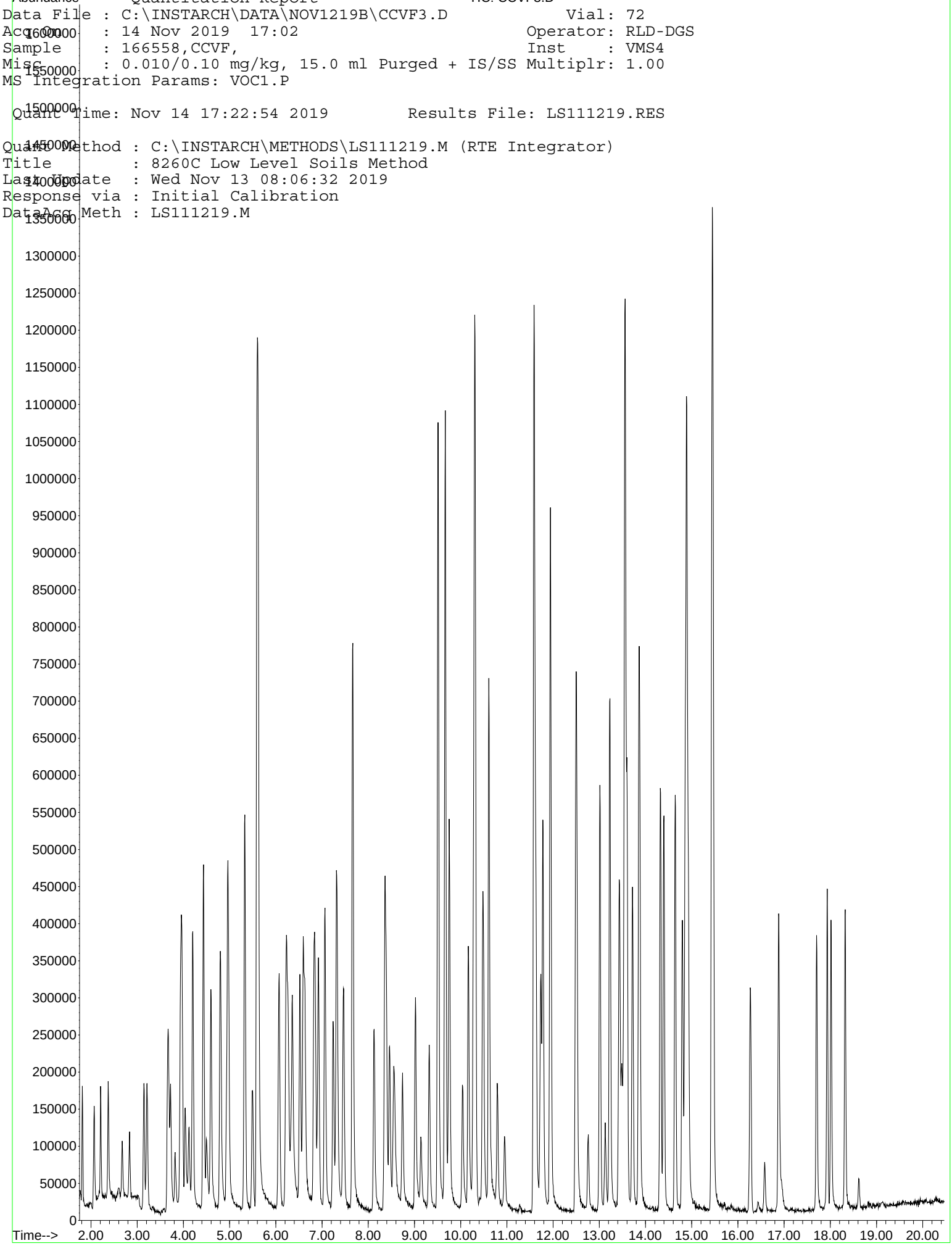
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	104044	0.0087	mg/kg	98
103)	Naphthalene	18.01	128	404935	0.0091	mg/kg	97
104)	123Trichlben	18.32	180	171046	0.0089	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219B\CCVF3.D Vial: 72
Acq On : 14 Nov 2019 17:02 Operator: RLD-DGS
Sample : 166558,CCVF, Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 17:22:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Data File : C:\Instarch\Data\NOV1819\BFB1R.D Vial: 1
Acq On : 18 Nov 2019 15:38 Operator: RLD-DGS
Sample : 166497,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS102519.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.630 to 4.649 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.1	6746	PASS
75	95	30	60	51.1	16368	PASS
95	95	100	100	100.0	32017	PASS
96	95	5	9	7.4	2363	PASS
173	174	0.00	2	0.3	106	PASS
174	95	50	100	95.5	30588	PASS
175	174	5	9	8.3	2537	PASS
176	174	95	101	95.6	29227	PASS
177	176	5	9	6.4	1862	PASS

PS102519.M Tue Dec 03 08:05:52 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1819\CCV1R.D Vial: 3
Acq On : 18 Nov 2019 16:23 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 18 16:44:15 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	59	0.00
2	T	Dichlorodi	0.3214	0.2968	7.65	53	0.00
3	PT	Chloromethan	0.4679	0.4293	8.25	58	0.00
4	CT	VinylChlorid	0.3512	0.3513	-0.03	56	0.00
5	T	Bromomethane	0.0811	0.1038	-27.99#	82	0.00
6	T	Chloroethane	0.0749	0.1244	-66.09#	109	0.00
7	T	dichloroflmethane	0.1652	0.2069	-25.24#	86	0.00
8	T	Trichlorofma	0.2517	0.2380	5.44	55	0.00
9	T	Ethylether	0.2411	0.2504	-3.86	63	0.00
10	T	dichlorotfluoroethan	0.2846	0.3122	-9.70	65	0.00
11	T	propyleneoxide	0.0643	0.0865	-34.53#	80	0.00
12	T	Acrolein	0.0238	0.0294	-23.53#	73	0.00
13	CT	11dichlorthe	0.2286	0.2387	-4.42	63	0.00
14	T	Trichlorotfluoroeth	0.1932	0.2285	-18.27	67	0.00
15	T	Acetone	0.1175	0.1292	-9.96	73	0.00
16	T	Iodomethane	0.0707	0.0417	41.02#	43#	0.00
17	T	Carbon Dislf	0.5617	0.6172	-9.88	64	0.00
18	T	allylchloride	0.5447	0.5373	1.36	58	0.00
19	T	methylacetate	0.1271	0.1484	-16.76	79	0.00
20	T	Methylchlorid	0.2967	0.3116	-5.02	71	0.00
21	T	Acrylonitrile	0.1117	0.1461	-30.80#	73	0.00
22	T	t12dichlorte	0.2389	0.2624	-9.84	66	0.00
23	T	tbutylalcohol	0.0476	0.0547	-14.92	72	0.02
24	T	MtBE	0.6966	0.6990	-0.34	61	0.00
25	T	Hexane	0.4620	0.5254	-13.72	65	0.00
26	PT	11dichlorota	0.5087	0.5183	-1.89	61	0.00
27	T	Vinylacetate	0.4838	0.6002	-24.06#	66	-0.03
28	T	chloroprene	0.4377	0.4769	-8.96	63	0.00
29	T	Diisopether	0.9822	1.0202	-3.87	61	0.00
30	T	ETBE	0.7993	0.7855	1.73	58	0.01
31	T	22dichloropr	0.3814	0.4081	-7.00	63	0.00
32	T	c12dichlorte	0.2694	0.2813	-4.42	63	0.00
33	T	2Butanone	0.0340	0.0410	-20.59#	74	0.00
34	T	propionitrile	0.0508	0.0657	-29.33#	78	0.00
35	T	Ethylacetate	0.0090	0.0102	-13.33	63	-0.01
36	T	methacrylonitrile	0.1266	0.1504	-18.80	71	0.00
37	T	Bromochlorma	0.1155	0.1167	-1.04	59	0.00
38	T	Tetrahydofur	0.1162	0.1375	-18.33	71	0.00
39	CT	Chloroform	0.4377	0.4596	-5.00	65	0.00
40	T	111trichlota	0.3743	0.3735	0.21	59	0.00
41	S	SURRDibrflma	0.2615	0.2708	-3.56	61	0.00
42	T	Cyclohexane	0.4741	0.4924	-3.86	59	0.00
43	T	Carbtetraclo	0.3147	0.3280	-4.23	62	0.00
44	T	11dicloprope	0.1166	0.1259	-7.98	63	0.00
45	S	SURR12DCAd4	0.0645	0.0662	-2.64	62	0.00
46	T	Benzene	0.9899	1.0350	-4.56	62	0.00
47	T	12dichlorota	0.3570	0.3687	-3.28	63	0.01
48	T	TAME	0.6819	0.6601	3.20	58	0.00

49	T	trichloroete	0.2440	0.2749	-12.66	65	0.00
50	T	methylcyclohexane	0.4888	0.5171	-5.79	59	0.00
51	CT	12dicloropra	0.3036	0.3182	-4.81	63	0.00
52	T	23dicl1propene	0.3585	0.3409	4.91	56	0.00
53	T	Dibromometha	0.1588	0.1577	0.69	61	0.00
54	T	methylmethacrylate	0.1681	0.1793	-6.66	64	0.00
55	T	14dioxane	0.0041	0.0046#	-12.20	73	0.00
56	T	Bromodiclrma	0.3097	0.3399	-9.75	66	0.00
57	T	2Nitropropane	0.0981	0.1259	-28.34#	79	0.00
58		2CLEVE	0.1900	0.2114	-11.26	64	0.00
59	T	c13dicloproe	0.4089	0.4197	-2.64	60	0.00
60	T	4Meth2Pentan	0.3298	0.4106	-24.50#	70	0.00
61	S	SURRd8Tolule	1.0186	1.0082	1.02	58	0.00
62	CT	Toluene	0.6568	0.6785	-3.30	62	0.00
63	T	t13Dicloprop	0.3485	0.3563	-2.24	59	0.00
64	T	ethylmethacrylate	0.3550	0.3655	-2.96	61	0.00
65	T	112Triclotha	0.1983	0.2023	-2.02	61	0.00
66	T	Tetrachlorte	0.2718	0.2916	-7.28	62	0.00
67	T	13Diclorpropa	0.3928	0.4119	-4.86	63	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	61	0.00
69	T	2Hexanone	0.2896	0.3644	-25.83#	72	0.00
70	T	Clorodibrmta	0.2904	0.3171	-9.19	69	0.00
71	T	12Dibrometha	0.3011	0.3038	-0.90	62	0.00
72	PT	Chlorobenzen	0.8480	0.8378	1.20	60	0.00
73	T	1Clhexane	0.4238	0.4423	-4.37	63	0.00
74	T	1112Tetclota	0.2928	0.3110	-6.22	65	0.00
75	CT	Ethylbenzene	1.4639	1.4928	-1.97	61	0.00
76	T	m p-Xylene	0.5532	0.5672	-2.53	62	0.00
77	T	o-Xylene	0.5669	0.5525	2.54	59	0.00
78	T	Styrene	0.8879	0.8960	-0.91	60	0.00
79	PT	Bromoform	0.1982	0.2131	-7.52	70	0.00
80	T	Isopropylben	1.4629	1.4918	-1.98	61	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	59	0.00
82	T	cyclohexanone	0.0422	0.0469	-11.14	70	0.00
83	S	SURR4BrFBenz	0.9621	0.9085	5.57	57	0.00
84	T	Bromobenzene	0.6751	0.7023	-4.03	62	0.00
85	PT	1122Tetrclta	0.8358	0.9408	-12.56	70	0.00
86	T	123Triclproa	1.0165	1.1629	-14.40	68	0.00
87	T	14dichloro2butene	0.2573	0.3082	-19.78	72	0.00
88	T	n-Propylbenz	3.1476	3.4553	-9.78	63	0.00
89	T	2chlorotolue	1.8890	1.9357	-2.47	60	0.00
90	T	4chlorotolue	2.1092	2.2128	-4.91	62	0.00
91	T	135Trimebenz	2.3137	2.2964	0.75	59	0.00
92	T	tbutylbenzen	2.0029	2.0354	-1.62	60	0.00
93	T	124Trimetben	2.2709	2.3589	-3.88	62	0.00
94	T	sbutylbenzen	2.9120	3.0914	-6.16	62	0.00
95	T	13Diclorbenz	1.2665	1.3347	-5.38	63	0.00
96	T	pIsopropylto	2.4182	2.5455	-5.26	61	0.00
97	T	14dichlorobe	1.2693	1.3326	-4.99	65	0.00
98	T	12dichlorobe	1.1964	1.2894	-7.77	66	0.00
99	T	nButylbenzen	2.2090	2.5084	-13.55	66	0.00
100	T	12dibromo3cl	0.1852	0.2043	-10.31	72	0.00
101	T	135Trichlorobenzene	0.8196	0.8452	-3.12	61	0.00
102	T	124Trichlobe	0.7561	0.8182	-8.21	66	0.00
103	T	Hexachlorobu	0.3809	0.3950	-3.70	64	0.00
104	T	Naphthalene	2.0370	2.3479	-15.26	71	0.00
105	T	123Trichlben	0.6961	0.7540	-8.32	65	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Dec 03 08:06:47 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1819\CCV1R.D Vial: 3
Acq On : 18 Nov 2019 16:23 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 18 16:44:15 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	59	0.00
2	T	Dichlorodi	0.5000	0.4618	7.64	53	0.00
3	PT	Chloromethan	0.5000	0.4588	8.24	58	0.00
4	CT	VinylChlorid	0.5000	0.5001	-0.02	56	0.00
5	T	Bromomethane	0.5000	0.7634	-52.68#	82	0.00
6	T	Chloroethane	0.5000	0.8307	-66.14#	109	0.00
7	T	dichloroflmethane	0.5000	0.7343	-46.86#	86	0.00
8	T	Trichlorofma	0.5000	0.4728	5.44	55	0.00
9	T	Ethylether	0.5000	0.5193	-3.86	63	0.00
10	T	dichlorotfluoroethan	0.5000	0.5483	-9.66	65	0.00
11	T	propyleneoxide	5.0000	6.7262	-34.52#	80	0.00
12	T	Acrolein	2.5000	3.0831	-23.32#	73	0.00
13	CT	11dichlorthe	0.5000	0.5221	-4.42	63	0.00
14	T	Trichlorotfluoroeth	1.0000	1.1831	-18.31	67	0.00
15	T	Acetone	5.0000	5.4969	-9.94	73	0.00
16	T	Iodomethane	1.0000	0.6144	38.56#	43	0.00
17	T	Carbon Dislf	1.0000	1.0987	-9.87	64	0.00
18	T	allylchloride	1.0000	0.9865	1.35	58	0.00
19	T	methylacetate	0.5000	0.5840	-16.80	79	0.00
20	T	Methylchlorid	0.5000	0.5844	-16.88	71	0.00
21	T	Acrylonitrile	2.5000	2.8879	-15.52	73	0.00
22	T	t12dichlorte	0.5000	0.5492	-9.84	66	0.00
23	T	tbutylalcohol	25.0000	28.7144	-14.86	72	0.02
24	T	MtBE	0.5000	0.5017	-0.34	61	0.00
25	T	Hexane	1.0000	1.1371	-13.71	65	0.00
26	PT	11dichlorota	0.5000	0.5094	-1.88	61	0.00
27	T	Vinylacetate	5.0000	6.2027	-24.05#	66	-0.03
28	T	chloroprene	1.0000	1.0896	-8.96	63	0.00
29	T	Diisopether	0.5000	0.5193	-3.86	61	0.00
30	T	ETBE	0.5000	0.4914	1.72	58	0.01
31	T	22dichloropr	0.5000	0.5350	-7.00	63	0.00
32	T	c12dichlorte	0.5000	0.5219	-4.38	63	0.00
33	T	2Butanone	5.0000	6.0186	-20.37#	74	0.00
34	T	propionitrile	5.0000	5.9559	-19.12	78	0.00
35	T	Ethylacetate	2.5000	2.6593	-6.37	63	-0.01
36	T	methacrylonitrile	1.0000	1.1874	-18.74	71	0.00
37	T	Bromochlorma	0.5000	0.5051	-1.02	59	0.00
38	T	Tetrahydofur	5.0000	5.9182	-18.36	71	0.00
39	CT	Chloroform	0.5000	0.5250	-5.00	65	0.00
40	T	111trichlota	0.5000	0.4989	0.22	59	0.00
41	S	SURRDibrflma	1.0000	1.0356	-3.56	61	0.00
42	T	Cyclohexane	0.5000	0.5193	-3.86	59	0.00
43	T	Carbtetraclo	0.5000	0.5212	-4.24	62	0.00
44	T	11dicloprope	0.5000	0.5400	-8.00	63	0.00
45	S	SURR12DCAd4	1.0000	1.0264	-2.64	62	0.00
46	T	Benzene	0.5000	0.5228	-4.56	62	0.00
47	T	12dichlorota	0.5000	0.5164	-3.28	63	0.01
48	T	TAME	0.5000	0.4840	3.20	58	0.00

49	T	trichloroete	0.5000	0.5633	-12.66	65	0.00
50	T	methylcyclohexane	0.5000	0.5290	-5.80	59	0.00
51	CT	12dicloropra	0.5000	0.5241	-4.82	63	0.00
52	T	23dicl1propene	0.5000	0.4754	4.92	56	0.00
53	T	Dibromometha	0.5000	0.4966	0.68	61	0.00
54	T	methylmethacrylate	0.5000	0.5016	-0.32	64	0.00
55	T	14dioxane	25.0000	28.3109	-13.24	73	0.00
56	T	Bromodiclrma	0.5000	0.5489	-9.78	66	0.00
57	T	2Nitropropane	5.0000	6.4199	-28.40#	79	0.00
58		2CLEVE	2.5000	2.7821	-11.28	64	0.00
59	T	c13dicloproe	0.5000	0.5133	-2.66	60	0.00
60	T	4Meth2Pentan	5.0000	6.2246	-24.49#	70	0.00
61	S	SURRd8Tolule	1.0000	0.9898	1.02	58	0.00
62	CT	Toluene	0.5000	0.5165	-3.30	62	0.00
63	T	t13Dicloprop	0.5000	0.5112	-2.24	59	0.00
64	T	ethylmethacrylate	1.0000	1.0296	-2.96	61	0.00
65	T	112Triclotha	0.5000	0.5102	-2.04	61	0.00
66	T	Tetrachlorte	0.5000	0.5365	-7.30	62	0.00
67	T	13Diclorpropa	0.5000	0.5243	-4.86	63	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	61	0.00
69	T	2Hexanone	5.0000	6.2906	-25.81#	72	0.00
70	T	Clorodibrmta	0.5000	0.5461	-9.22	69	0.00
71	T	12Dibrometha	0.5000	0.5045	-0.90	62	0.00
72	PT	Chlorobenzen	0.5000	0.4939	1.22	60	0.00
73	T	1Clhexane	0.5000	0.5219	-4.38	63	0.00
74	T	1112Tetclota	0.5000	0.5311	-6.22	65	0.00
75	CT	Ethylbenzene	0.5000	0.5099	-1.98	61	0.00
76	T	m p-Xylene	1.0000	1.0253	-2.53	62	0.00
77	T	o-Xylene	0.5000	0.4873	2.54	59	0.00
78	T	Styrene	0.5000	0.5046	-0.92	60	0.00
79	PT	Bromoform	0.5000	0.5376	-7.52	70	0.00
80	T	Isopropylben	0.5000	0.5099	-1.98	61	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	59	0.00
82	T	cyclohexanone	10.0000	11.1132	-11.13	70	0.00
83	S	SURR4BrFBenz	1.0000	0.9443	5.57	57	0.00
84	T	Bromobenzene	0.5000	0.5201	-4.02	62	0.00
85	PT	1122Tetrclta	0.5000	0.5628	-12.56	70	0.00
86	T	123Triclproa	0.5000	0.5720	-14.40	68	0.00
87	T	14dichloro2butene	0.5000	0.5989	-19.78	72	0.00
88	T	n-Propylbenz	0.5000	0.5489	-9.78	63	0.00
89	T	2chlorotolue	0.5000	0.5124	-2.48	60	0.00
90	T	4chlorotolue	0.5000	0.5246	-4.92	62	0.00
91	T	135Trimebenz	0.5000	0.4962	0.76	59	0.00
92	T	tbutylbenzen	0.5000	0.5081	-1.62	60	0.00
93	T	124Trimetben	0.5000	0.5194	-3.88	62	0.00
94	T	sbutylbenzen	0.5000	0.5308	-6.16	62	0.00
95	T	13Diclorbenz	0.5000	0.5269	-5.38	63	0.00
96	T	pIsopropylto	0.5000	0.5263	-5.26	61	0.00
97	T	14dichlorobe	0.5000	0.5249	-4.98	65	0.00
98	T	12dichlorobe	0.5000	0.5388	-7.76	66	0.00
99	T	nButylbenzen	0.5000	0.5678	-13.56	66	0.00
100	T	12dibromo3cl	0.5000	0.5516	-10.32	72	0.00
101	T	135Trichlorobenzene	0.5000	0.5157	-3.14	61	0.00
102	T	124Trichlobe	0.5000	0.5411	-8.22	66	0.00
103	T	Hexachlorobu	0.5000	0.5186	-3.72	64	0.00
104	T	Naphthalene	0.5000	0.5763	-15.26	71	0.00
105	T	123Trichlben	0.5000	0.5416	-8.32	65	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Dec 03 08:07:20 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCV1R.D Vial: 3
Acq On : 18 Nov 2019 16:23 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 16:44:15 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sun Nov 10 09:00:31 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	799283	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	667103	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	343427	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	216455	1.036	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 104 %			
45) SURR12DCAd4	7.23	102	52909	1.026	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103 %			
61) SURRd8Tolule	9.67	98	805827	0.990	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
83) SURR4BrFBenz	13.23	95	312008	0.944	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	118607	0.4618	mg/kg	97
3) Chloromethan	2.07	50	171585	0.4588	mg/kg	99
4) VinylChlorid	2.22	62	140380	0.5001	mg/kg	98
5) Bromomethane	2.66	94	41492	0.7634	mg/kg	87
6) Chloroethane	2.80	64	49718	0.8307	mg/kg	89
7) dichloroflmethane	3.10	67	82690	0.7343	mg/kg	94
8) Trichlorofma	3.13	101	95109	0.4728	mg/kg	94
9) Ethylether	3.67	59	100061	0.5193	mg/kg	99
10) dichlorotfluoroethan	3.66	67	124753	0.5483	mg/kg	98
11) propyleneoxide	3.73	58	345735	6.7262	mg/kg	96
12) Acrolein	3.84	56	58716	3.0831	mg/kg	93
13) 11dichlorthe	3.89	96	95409	0.5221	mg/kg	98
14) Trichlorotfluoroeth	3.91	101	182660	1.1831	mg/kg	98
15) Acetone	4.09	43	516353	5.4969	mg/kg	98
16) Iodomethane	4.08	127	33302	0.6144	mg/kg	89
17) Carbon Dislf	4.15	76	493281	1.0987	mg/kg	100
18) allylchloride	4.41	41	429469	0.9865	mg/kg	97
19) methylacetate	4.52	74	59311	0.5840	mg/kg	96
20) Methylchlorid	4.58	84	124543	0.5844	mg/kg	97
21) Acrylonitrile	4.95	53	292014	2.8879	mg/kg	99
22) t12dichlorte	4.95	96	104863	0.5492	mg/kg	94
23) tbutylalcohol	4.93	59	1092663	28.7144	mg/kg	98
24) MtBE	5.00	73	279334	0.5017	mg/kg#	5
25) Hexane	5.30	57	419922	1.1371	mg/kg	99
26) 11dichlorota	5.49	63	207128	0.5094	mg/kg	98
27) Vinylacetate	5.60	43	2398577	6.2027	mg/kg	99
28) chloroprene	5.60	53	381186	1.0896	mg/kg	99
29) Diisopether	5.63	45	407696	0.5193	mg/kg#	89
30) ETBE	6.09	59	313919	0.4914	mg/kg	98
31) 22dichloropr	6.22	77	163098	0.5350	mg/kg	97
32) c12dichlorte	6.23	96	112401	0.5219	mg/kg	97
33) 2Butanone	6.28	72	163745	6.0186	mg/kg	100
34) propionitrile	6.36	54	262461	5.9559	mg/kg	98
35) Ethylacetate	6.36	88	20422	2.6593	mg/kg#	64
36) methacrylonitrile	6.53	67	120190	1.1874	mg/kg	91
37) Bromochlorma	6.53	128	46642	0.5051	mg/kg	96
38) Tetrahydofur	6.61	42	549634	5.9182	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCV1R.D Vial: 3
Acq On : 18 Nov 2019 16:23 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 16:44:15 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sun Nov 10 09:00:31 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	183668	0.5250 mg/kg	98
40)	111trichlota	6.84	97	149252	0.4989 mg/kg	96
42)	Cyclohexane	6.91	56	196784	0.5193 mg/kg	98
43)	Carbtetraclo	7.05	119	131097	0.5212 mg/kg	97
44)	11dicloprope	7.06	110	50309	0.5400 mg/kg	96
46)	Benzene	7.31	78	413642	0.5228 mg/kg	98
47)	12dichlorota	7.34	62	147337	0.5164 mg/kg	99
48)	TAME	7.48	73	263813	0.4840 mg/kg	97
49)	trichloroete	8.12	95	109847	0.5633 mg/kg	95
50)	methylcyclohexane	8.36	83	206655	0.5290 mg/kg	99
51)	12dicloropra	8.39	63	127177	0.5241 mg/kg	91
52)	23dicl1propene	8.46	75	136236	0.4754 mg/kg	97
53)	Dibromometha	8.55	93	63040	0.4966 mg/kg	99
54)	methylmethacrylate	8.57	69	71638	0.5016 mg/kg	96
55)	14dioxane	8.61	88	91761	28.3109 mg/kg	98
56)	Bromodiclrma	8.74	83	135857	0.5489 mg/kg	97
57)	2Nitropropane	9.03	43	503246	6.4199 mg/kg	97
58)	2CLEVE	9.14	63	422404	2.7821 mg/kg	98
59)	c13dicloproe	9.32	75	167743	0.5133 mg/kg	99
60)	4Meth2Pentan	9.51	43	1641008	6.2246 mg/kg	99
62)	Toluene	9.75	92	271149	0.5165 mg/kg	100
63)	t13Dicloprop	10.04	75	142403	0.5112 mg/kg	94
64)	ethylmethacrylate	10.17	69	292116	1.0296 mg/kg	98
65)	112Triclotha	10.27	83	80867	0.5102 mg/kg	96
66)	Tetrachlorte	10.48	166	116555	0.5365 mg/kg	98
67)	13Diclorpropa	10.50	76	164603	0.5243 mg/kg	100
69)	2Hexanone	10.62	43	1215378	6.2906 mg/kg	99
70)	Clorodibrmta	10.80	129	105779	0.5461 mg/kg	95
71)	12Dibrometha	10.95	107	101330	0.5045 mg/kg	100
72)	Chlorobenzen	11.63	112	279441	0.4939 mg/kg	99
73)	1Clhexane	11.59	91	147543	0.5219 mg/kg	97
74)	1112Tetclota	11.73	131	103736	0.5311 mg/kg	94
75)	Ethylbenzene	11.78	91	497927	0.5099 mg/kg	98
76)	m p-Xylene	11.94	106	378394	1.0253 mg/kg	98
77)	o-Xylene	12.50	106	184274	0.4873 mg/kg	96
78)	Styrene	12.51	104	298868	0.5046 mg/kg	99
79)	Bromoform	12.76	173	71093	0.5376 mg/kg	99
80)	Isopropylben	13.01	105	497584	0.5099 mg/kg	99
82)	cyclohexanone	13.13	55	160928	11.1132 mg/kg	100
84)	Bromobenzene	13.44	156	120586	0.5201 mg/kg	98
85)	1122Tetrclta	13.43	83	161548	0.5628 mg/kg	99
86)	123Triclproa	13.49	75	199678	0.5720 mg/kg	100
87)	14dichloro2butene	13.52	53	52919	0.5989 mg/kg	97
88)	n-Propylbenz	13.60	91	593316	0.5489 mg/kg	99
89)	2chlorotolue	13.72	91	332382	0.5124 mg/kg	99
90)	4chlorotolue	13.88	91	379974	0.5246 mg/kg	99
91)	135Trimebenz	13.86	105	394317	0.4962 mg/kg	98
92)	tbutylbenzen	14.33	119	349500	0.5081 mg/kg	98
93)	124Trimetben	14.40	105	405060	0.5194 mg/kg	98
94)	sbutylbenzen	14.65	105	530828	0.5308 mg/kg	100
95)	13Diclorbenz	14.80	146	229189	0.5269 mg/kg	99
96)	pIsopropylto	14.86	119	437098	0.5263 mg/kg	98
97)	14dichlorobe	14.92	146	228817	0.5249 mg/kg	100
98)	12dichlorobe	15.46	146	221400	0.5388 mg/kg	97
99)	nButylbenzen	15.46	91	430724	0.5678 mg/kg	97
100)	12dibromo3cl	16.58	157	35083	0.5516 mg/kg	99
101)	135Trichlorobenzene	16.88	180	145137	0.5157 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCV1R.D Vial: 3
Acq On : 18 Nov 2019 16:23 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 16:44:15 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sun Nov 10 09:00:31 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.70	180	140503	0.5411	mg/kg	100
103)	Hexachlorobu	17.93	225	67831	0.5186	mg/kg	96
104)	Naphthalene	18.01	128	403160	0.5763	mg/kg	97
105)	123Trichlben	18.32	180	129478	0.5416	mg/kg	100

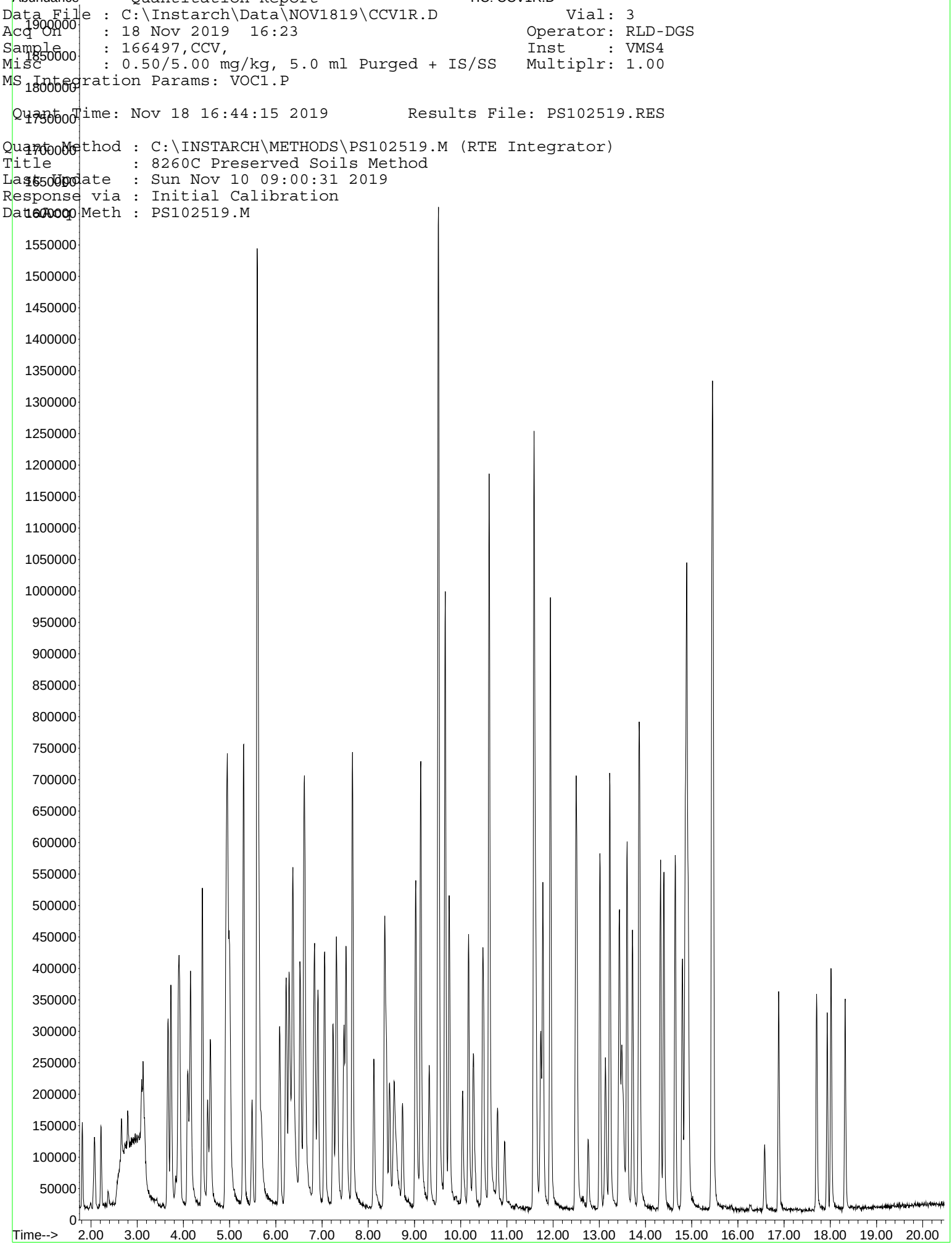
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCV1R.D

Data File : C:\Instarch\Data\NOV1819\CCV1R.D Vial: 3
Acq On : 18 Nov 2019 16:23 Operator: RLD-DGS
Sample : 166497,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 16:44:15 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sun Nov 10 09:00:31 2019
Response via : Initial Calibration
Data Output Meth : PS102519.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1819\CCVF1R.D Vial: 26
Acq On : 19 Nov 2019 3:21 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 19 03:42:18 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	64	0.00
2	T	Dichlorodi	0.3214	0.3067	4.57	60	0.00
3	PT	Chloromethan	0.4679	0.4128	11.78	61	0.01
4	CT	VinylChlorid	0.3512	0.3600	-2.51	64	0.00
5	T	Bromomethane	0.0811	0.0780	3.82	67	0.00
6	T	Chloroethane	0.0749	0.1163	-55.27#	112	0.00
7	T	dichloroflmethane	0.1652	0.2029	-22.82	93	0.00
8	T	Trichlorofma	0.2517	0.2386	5.20	61	0.00
9	T	Ethylether	0.2411	0.2484	-3.03	69	0.00
10	T	dichlorotfluoroethan	0.2846	0.3254	-14.34	74	0.00
11	T	propyleneoxide	0.0643	0.0861	-33.90	87	0.00
12	T	Acrolein	0.0238	0.0297	-24.79	81	0.00
13	CT	11dichlorthe	0.2286	0.2416	-5.69	71	0.00
14	T	Trichlorotfluoroeth	0.1932	0.2280	-18.01	74	0.00
15	T	Acetone	0.1175	0.1210	-2.98	75	0.00
16	T	Iodomethane	0.0707	0.0542	23.34	62	0.00
17	T	Carbon Dislf	0.5617	0.6099	-8.58	69	0.00
18	T	allylchloride	0.5447	0.5376	1.30	63	0.00
19	T	methylacetate	0.1271	0.1425	-12.12	83	0.01
20	T	Methylchlorid	0.2967	0.3195	-7.68	80	0.00
21	T	Acrylonitrile	0.1117	0.1494	-33.75	82	0.00
22	T	t12dichlorte	0.2389	0.2564	-7.33	71	0.00
23	T	tbutylalcohol	0.0476	0.0522	-9.66	75	0.00
24	T	MtBE	0.6966	0.7024	-0.83	67	0.00
25	T	Hexane	0.4620	0.4819	-4.31	65	0.00
26	PT	11dichlorota	0.5087	0.5501	-8.14	71	0.00
27	T	Vinylacetate	0.4838	0.5830	-20.50	70	-0.03
28	T	chloroprene	0.4377	0.4749	-8.50	69	0.00
29	T	Diisopether	0.9822	1.0322	-5.09	68	0.00
30	T	ETBE	0.7993	0.8105	-1.40	66	0.00
31	T	22dichloropr	0.3814	0.3467	9.10	59	0.00
32	T	c12dichlorte	0.2694	0.2877	-6.79	70	0.00
33	T	2Butanone	0.0340	0.0411	-20.88	82	0.00
34	T	propionitrile	0.0508	0.0618	-21.65	80	0.00
35	T	Ethylacetate	0.0090	0.0111	-23.33	75	0.00
36	T	methacrylonitrile	0.1266	0.1514	-19.59	79	0.00
37	T	Bromochlorma	0.1155	0.1345	-16.45	75	0.00
38	T	Tetrahydofur	0.1162	0.1347	-15.92	76	0.00
39	CT	Chloroform	0.4377	0.4524	-3.36	71	0.00
40	T	111trichlota	0.3743	0.4044	-8.04	71	0.00
41	S	SURRDibrflma	0.2615	0.2634	-0.73	65	0.00
42	T	Cyclohexane	0.4741	0.4951	-4.43	65	0.00
43	T	Carbtetraclo	0.3147	0.3224	-2.45	67	0.00
44	T	11dicloprope	0.1166	0.1179	-1.11	65	0.00
45	S	SURR12DCAd4	0.0645	0.0648	-0.47	66	0.00
46	T	Benzene	0.9899	1.0779	-8.89	71	0.00
47	T	12dichlorota	0.3570	0.3667	-2.72	69	0.00
48	T	TAME	0.6819	0.6931	-1.64	67	0.00

49	T	trichloroete	0.2440	0.2712	-11.15	70	0.00
50	T	methylcyclohexane	0.4888	0.5080	-3.93	64	0.00
51	CT	12dicloropra	0.3036	0.3210	-5.73	70	0.00
52	T	23dicl1propene	0.3585	0.3537	1.34	64	0.00
53	T	Dibromometha	0.1588	0.1671	-5.23	71	0.00
54	T	methylmethacrylate	0.1681	0.1796	-6.84	70	0.01
55	T	14dioxane	0.0041	0.0047#	-14.63	82	0.02
56	T	Bromodiclrma	0.3097	0.3278	-5.84	69	0.00
57	T	2Nitropropane	0.0981	0.1227	-25.08	85	0.00
58		2CLEVE	0.1900	0.2134	-12.32	71	0.00
59	T	c13dicloproe	0.4089	0.4030	1.44	63	0.00
60	T	4Meth2Pentan	0.3298	0.4096	-24.20	76	0.00
61	S	SURRd8Tolule	1.0186	1.0062	1.22	64	0.00
62	CT	Toluene	0.6568	0.6891	-4.92	69	0.00
63	T	t13Dicloprop	0.3485	0.3507	-0.63	64	0.00
64	T	ethylmethacrylate	0.3550	0.3678	-3.61	67	0.00
65	T	112Triclotha	0.1983	0.2094	-5.60	69	0.00
66	T	Tetrachlorte	0.2718	0.2864	-5.37	67	0.00
67	T	13Diclorpropa	0.3928	0.4267	-8.63	71	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	66	0.00
69	T	2Hexanone	0.2896	0.3626	-25.21	77	0.00
70	T	Clorodibrmta	0.2904	0.2890	0.48	68	0.00
71	T	12Dibrometha	0.3011	0.3175	-5.45	70	0.00
72	PT	Chlorobenzen	0.8480	0.8658	-2.10	68	0.00
73	T	1Clhexane	0.4238	0.4299	-1.44	67	0.00
74	T	1112Tetclota	0.2928	0.2966	-1.30	67	0.00
75	CT	Ethylbenzene	1.4639	1.5292	-4.46	68	0.00
76	T	m p-Xylene	0.5532	0.5631	-1.79	67	0.00
77	T	o-Xylene	0.5669	0.5578	1.61	65	0.00
78	T	Styrene	0.8879	0.9158	-3.14	67	0.00
79	PT	Bromoform	0.1982	0.2056	-3.73	73	0.00
80	T	Isopropylben	1.4629	1.4971	-2.34	67	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	65	0.00
82	T	cyclohexanone	0.0422	0.0449	-6.40	74	0.00
83	S	SURR4BrFBenz	0.9621	0.8986	6.60	61	0.00
84	T	Bromobenzene	0.6751	0.7222	-6.98	70	0.00
85	PT	1122Tetrclta	0.8358	0.9358	-11.96	76	0.00
86	T	123Triclproa	1.0165	1.0281	-1.14	66	0.00
87	T	14dichloro2butene	0.2573	0.2326	9.60	60	0.01
88	T	n-Propylbenz	3.1476	3.4362	-9.17	69	0.00
89	T	2chlorotolue	1.8890	1.9496	-3.21	67	0.00
90	T	4chlorotolue	2.1092	2.2303	-5.74	69	0.00
91	T	135Trimebenz	2.3137	2.3493	-1.54	66	0.00
92	T	tbutylbenzen	2.0029	2.0274	-1.22	66	0.00
93	T	124Trimetben	2.2709	2.3057	-1.53	66	0.00
94	T	sbutylbenzen	2.9120	3.0859	-5.97	67	0.00
95	T	13Diclorbenz	1.2665	1.3333	-5.27	69	0.00
96	T	pIsopropylto	2.4182	2.5122	-3.89	66	0.00
97	T	14dichlorobe	1.2693	1.3156	-3.65	71	0.00
98	T	12dichlorobe	1.1964	1.2794	-6.94	72	0.00
99	T	nButylbenzen	2.2090	2.3763	-7.57	69	0.00
100	T	12dibromo3cl	0.1852	0.1982	-7.02	77	0.00
101	T	135Trichlorobenzene	0.8196	0.8560	-4.44	68	0.00
102	T	124Trichlobe	0.7561	0.7835	-3.62	69	0.00
103	T	Hexachlorobu	0.3809	0.3787	0.58	68	0.00
104	T	Naphthalene	2.0370	2.3278	-14.28	77	0.00
105	T	123Trichlben	0.6961	0.7566	-8.69	72	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Dec 03 08:09:36 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1819\CCVF1R.D Vial: 26
Acq On : 19 Nov 2019 3:21 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 19 03:42:18 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	64	0.00
2	T	Dichlorodi	0.5000	0.4772	4.56	60	0.00
3	PT	Chloromethan	0.5000	0.4411	11.78	61	0.01
4	CT	VinylChlorid	0.5000	0.5126	-2.52	64	0.00
5	T	Bromomethane	0.5000	0.5624	-12.48	67	0.00
6	T	Chloroethane	0.5000	0.7766	-55.32#	112	0.00
7	T	dichloroflmethane	0.5000	0.7193	-43.86	93	0.00
8	T	Trichlorofma	0.5000	0.4741	5.18	61	0.00
9	T	Ethylether	0.5000	0.5151	-3.02	69	0.00
10	T	dichlorotfluoroethan	0.5000	0.5716	-14.32	74	0.00
11	T	propyleneoxide	5.0000	6.6917	-33.83	87	0.00
12	T	Acrolein	2.5000	3.1112	-24.45	81	0.00
13	CT	11dichlorthe	0.5000	0.5283	-5.66	71	0.00
14	T	Trichlorotfluoroeth	1.0000	1.1802	-18.02	74	0.00
15	T	Acetone	5.0000	5.1468	-2.94	75	0.00
16	T	Iodomethane	1.0000	0.7596	24.04	62	0.00
17	T	Carbon Dislf	1.0000	1.0857	-8.57	69	0.00
18	T	allylchloride	1.0000	0.9870	1.30	63	0.00
19	T	methylacetate	0.5000	0.5606	-12.12	83	0.01
20	T	Methylchlorid	0.5000	0.5997	-19.94	80	0.00
21	T	Acrylonitrile	2.5000	2.9492	-17.97	82	0.00
22	T	t12dichlorte	0.5000	0.5366	-7.32	71	0.00
23	T	tbutylalcohol	25.0000	27.3875	-9.55	75	0.00
24	T	MtBE	0.5000	0.5041	-0.82	67	0.00
25	T	Hexane	1.0000	1.0431	-4.31	65	0.00
26	PT	11dichlorota	0.5000	0.5407	-8.14	71	0.00
27	T	Vinylacetate	5.0000	6.0248	-20.50	70	-0.03
28	T	chloroprene	1.0000	1.0849	-8.49	69	0.00
29	T	Diisopether	0.5000	0.5254	-5.08	68	0.00
30	T	ETBE	0.5000	0.5070	-1.40	66	0.00
31	T	22dichloropr	0.5000	0.4545	9.10	59	0.00
32	T	c12dichlorte	0.5000	0.5340	-6.80	70	0.00
33	T	2Butanone	5.0000	6.0382	-20.76	82	0.00
34	T	propionitrile	5.0000	5.6286	-12.57	80	0.00
35	T	Ethylacetate	2.5000	2.8730	-14.92	75	0.00
36	T	methacrylonitrile	1.0000	1.1952	-19.52	79	0.00
37	T	Bromochlorma	0.5000	0.5819	-16.38	75	0.00
38	T	Tetrahydofur	5.0000	5.7946	-15.89	76	0.00
39	CT	Chloroform	0.5000	0.5168	-3.36	71	0.00
40	T	111trichlota	0.5000	0.5402	-8.04	71	0.00
41	S	SURRDibrflma	1.0000	1.0072	-0.72	65	0.00
42	T	Cyclohexane	0.5000	0.5222	-4.44	65	0.00
43	T	Carbtetraclo	0.5000	0.5123	-2.46	67	0.00
44	T	11dicloprope	0.5000	0.5056	-1.12	65	0.00
45	S	SURR12DCAd4	1.0000	1.0048	-0.48	66	0.00
46	T	Benzene	0.5000	0.5445	-8.90	71	0.00
47	T	12dichlorota	0.5000	0.5137	-2.74	69	0.00
48	T	TAME	0.5000	0.5082	-1.64	67	0.00

49	T	trichloroete	0.5000	0.5557	-11.14	70	0.00
50	T	methylcyclohexane	0.5000	0.5197	-3.94	64	0.00
51	CT	12dicloropra	0.5000	0.5287	-5.74	70	0.00
52	T	23dicl1propene	0.5000	0.4934	1.32	64	0.00
53	T	Dibromometha	0.5000	0.5260	-5.20	71	0.00
54	T	methylmethacrylate	0.5000	0.5025	-0.50	70	0.01
55	T	14dioxane	25.0000	29.1693	-16.68	82	0.02
56	T	Bromodiclrma	0.5000	0.5293	-5.86	69	0.00
57	T	2Nitropropane	5.0000	6.2553	-25.11	85	0.00
58		2CLEVE	2.5000	2.8086	-12.34	71	0.00
59	T	c13dicloproe	0.5000	0.4928	1.44	63	0.00
60	T	4Meth2Pentan	5.0000	6.2096	-24.19	76	0.00
61	S	SURRd8Tolule	1.0000	0.9879	1.21	64	0.00
62	CT	Toluene	0.5000	0.5246	-4.92	69	0.00
63	T	t13Dicloprop	0.5000	0.5030	-0.60	64	0.00
64	T	ethylmethacrylate	1.0000	1.0362	-3.62	67	0.00
65	T	112Triclotha	0.5000	0.5278	-5.56	69	0.00
66	T	Tetrachlorte	0.5000	0.5268	-5.36	67	0.00
67	T	13Diclorpropa	0.5000	0.5432	-8.64	71	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	66	0.00
69	T	2Hexanone	5.0000	6.2597	-25.19	77	0.00
70	T	Clorodibrmta	0.5000	0.4977	0.46	68	0.00
71	T	12Dibrometha	0.5000	0.5272	-5.44	70	0.00
72	PT	Chlorobenzen	0.5000	0.5105	-2.10	68	0.00
73	T	1Clhexane	0.5000	0.5072	-1.44	67	0.00
74	T	1112Tetclota	0.5000	0.5065	-1.30	67	0.00
75	CT	Ethylbenzene	0.5000	0.5223	-4.46	68	0.00
76	T	m p-Xylene	1.0000	1.0179	-1.79	67	0.00
77	T	o-Xylene	0.5000	0.4920	1.60	65	0.00
78	T	Styrene	0.5000	0.5157	-3.14	67	0.00
79	PT	Bromoform	0.5000	0.5186	-3.72	73	0.00
80	T	Isopropylben	0.5000	0.5117	-2.34	67	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	65	0.00
82	T	cyclohexanone	10.0000	10.6416	-6.42	74	0.00
83	S	SURR4BrFBenz	1.0000	0.9340	6.60	61	0.00
84	T	Bromobenzene	0.5000	0.5348	-6.96	70	0.00
85	PT	1122Tetrclta	0.5000	0.5598	-11.96	76	0.00
86	T	123Triclproa	0.5000	0.5057	-1.14	66	0.00
87	T	14dichloro2butene	0.5000	0.4521	9.58	60	0.01
88	T	n-Propylbenz	0.5000	0.5458	-9.16	69	0.00
89	T	2chlorotolue	0.5000	0.5160	-3.20	67	0.00
90	T	4chlorotolue	0.5000	0.5287	-5.74	69	0.00
91	T	135Trimebenz	0.5000	0.5077	-1.54	66	0.00
92	T	tbutylbenzen	0.5000	0.5061	-1.22	66	0.00
93	T	124Trimetben	0.5000	0.5077	-1.54	66	0.00
94	T	sbutylbenzen	0.5000	0.5299	-5.98	67	0.00
95	T	13Diclorbenz	0.5000	0.5263	-5.26	69	0.00
96	T	pIsopropylto	0.5000	0.5194	-3.88	66	0.00
97	T	14dichlorobe	0.5000	0.5183	-3.66	71	0.00
98	T	12dichlorobe	0.5000	0.5347	-6.94	72	0.00
99	T	nButylbenzen	0.5000	0.5379	-7.58	69	0.00
100	T	12dibromo3cl	0.5000	0.5351	-7.02	77	0.00
101	T	135Trichlorobenzene	0.5000	0.5222	-4.44	68	0.00
102	T	124Trichlobe	0.5000	0.5181	-3.62	69	0.00
103	T	Hexachlorobu	0.5000	0.4972	0.56	68	0.00
104	T	Naphthalene	0.5000	0.5714	-14.28	77	0.00
105	T	123Trichlben	0.5000	0.5434	-8.68	72	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Dec 03 08:09:56 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCVF1R.D Vial: 26
Acq On : 19 Nov 2019 3:21 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 03:42:18 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	877920	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	722469	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	376542	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.82	113	231230	1.007	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.24	102	56892	1.005	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
61) SURRd8Tolule	9.67	98	883400	0.988	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
83) SURR4BrFBenz	13.23	95	338358	0.934	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	134638	0.4772	mg/kg	98
3) Chloromethan	2.08	50	181181	0.4411	mg/kg	97
4) VinylChlorid	2.21	62	158034	0.5126	mg/kg	98
5) Bromomethane	2.66	94	34222	0.5624	mg/kg	96
6) Chloroethane	2.79	64	51057	0.7766	mg/kg	99
7) dichloroflmethane	3.10	67	89067	0.7193	mg/kg	93
8) Trichlorofma	3.13	101	104756	0.4741	mg/kg	98
9) Ethylether	3.67	59	109018	0.5151	mg/kg	98
10) dichlorotfluoroethan	3.66	67	142838	0.5716	mg/kg	99
11) propyleneoxide	3.73	58	377799	6.6917	mg/kg	98
12) Acrolein	3.83	56	65081	3.1112	mg/kg	98
13) 11dichlorthe	3.89	96	106041	0.5283	mg/kg	94
14) Trichlorotfluoroeth	3.91	101	200139	1.1802	mg/kg	95
15) Acetone	4.09	43	531030	5.1468	mg/kg	98
16) Iodomethane	4.09	127	47547	0.7596	mg/kg	96
17) Carbon Dislf	4.15	76	535434	1.0857	mg/kg	98
18) allylchloride	4.41	41	471949	0.9870	mg/kg	97
19) methylacetate	4.53	74	62537	0.5606	mg/kg	95
20) Methylchlorid	4.58	84	140257	0.5997	mg/kg	95
21) Acrylonitrile	4.96	53	327842	2.9492	mg/kg	95
22) t12dichlorte	4.94	96	112528	0.5366	mg/kg	97
23) tbutylalcohol	4.92	59	1144701	27.3875	mg/kg	99
24) MtBE	4.99	73	308321	0.5041	mg/kg#	43
25) Hexane	5.30	57	423099	1.0431	mg/kg	100
26) 11dichlorota	5.48	63	241483	0.5407	mg/kg	98
27) Vinylacetate	5.60	43	2559016	6.0248	mg/kg	99
28) chloroprene	5.60	53	416895	1.0849	mg/kg	99
29) Diisopether	5.63	45	453083	0.5254	mg/kg	97
30) ETBE	6.08	59	355785	0.5070	mg/kg	98
31) 22dichloropr	6.22	77	152191	0.4545	mg/kg	98
32) c12dichlorte	6.23	96	126308	0.5340	mg/kg	93
33) 2Butanone	6.28	72	180439	6.0382	mg/kg	99
34) propionitrile	6.36	54	271343	5.6286	mg/kg	99
35) Ethylacetate	6.38	88	24347	2.8730	mg/kg#	89
36) methacrylonitrile	6.52	67	132883	1.1952	mg/kg	95
37) Bromochlorma	6.52	128	59019	0.5819	mg/kg	93
38) Tetrahydofur	6.61	42	591094	5.7946	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCVF1R.D Vial: 26
Acq On : 19 Nov 2019 3:21 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 03:42:18 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.63	83	198593	0.5168	mg/kg	96
40)	111trichlota	6.84	97	177521	0.5402	mg/kg	97
42)	Cyclohexane	6.91	56	217340	0.5222	mg/kg	98
43)	Carbtetraclo	7.06	119	141541	0.5123	mg/kg	98
44)	11dicloprope	7.06	110	51743	0.5056	mg/kg	94
46)	Benzene	7.31	78	473154	0.5445	mg/kg	99
47)	12dichlorota	7.34	62	160975	0.5137	mg/kg	98
48)	TAME	7.48	73	304259	0.5082	mg/kg	98
49)	trichloroete	8.13	95	119028	0.5557	mg/kg	98
50)	methylcyclohexane	8.35	83	223007	0.5197	mg/kg	97
51)	12dicloropra	8.39	63	140924	0.5287	mg/kg	99
52)	23dicl1propene	8.46	75	155277	0.4934	mg/kg	98
53)	Dibromometha	8.55	93	73343	0.5260	mg/kg	94
54)	methylmethacrylate	8.58	69	78829	0.5025	mg/kg	99
55)	14dioxane	8.63	88	103845	29.1693	mg/kg	94
56)	Bromodiclrma	8.74	83	143905	0.5293	mg/kg	98
57)	2Nitropropane	9.03	43	538593	6.2553	mg/kg	97
58)	2CLEVE	9.14	63	468373	2.8086	mg/kg	100
59)	c13dicloproe	9.33	75	176918	0.4928	mg/kg	99
60)	4Meth2Pentan	9.51	43	1798106	6.2096	mg/kg	99
62)	Toluene	9.76	92	302466	0.5246	mg/kg	99
63)	t13Dicloprop	10.04	75	153923	0.5030	mg/kg	95
64)	ethylmethacrylate	10.17	69	322924	1.0362	mg/kg	96
65)	112Triclotha	10.27	83	91897	0.5278	mg/kg	97
66)	Tetrachlorte	10.48	166	125707	0.5268	mg/kg	97
67)	13Diclorpropa	10.50	76	187317	0.5432	mg/kg	100
69)	2Hexanone	10.62	43	1309771	6.2597	mg/kg	99
70)	Clorodibrmta	10.80	129	104408	0.4977	mg/kg	96
71)	12Dibrometha	10.95	107	114696	0.5272	mg/kg	100
72)	Chlorobenzen	11.63	112	312769	0.5105	mg/kg	99
73)	1Clhexane	11.60	91	155284	0.5072	mg/kg	94
74)	1112Tetclota	11.73	131	107143	0.5065	mg/kg	98
75)	Ethylbenzene	11.78	91	552406	0.5223	mg/kg	98
76)	m p-Xylene	11.94	106	406836	1.0179	mg/kg	98
77)	o-Xylene	12.50	106	201485	0.4920	mg/kg	92
78)	Styrene	12.51	104	330814	0.5157	mg/kg	98
79)	Bromoform	12.76	173	74268	0.5186	mg/kg	94
80)	Isopropylben	13.01	105	540818	0.5117	mg/kg	98
82)	cyclohexanone	13.14	55	168959	10.6416	mg/kg	99
84)	Bromobenzene	13.44	156	135961	0.5348	mg/kg	96
85)	1122Tetrclta	13.42	83	176180	0.5598	mg/kg	99
86)	123Triclproa	13.49	75	193564	0.5057	mg/kg	96
87)	14dichloro2butene	13.52	53	43800	0.4521	mg/kg	95
88)	n-Propylbenz	13.60	91	646934	0.5458	mg/kg	100
89)	2chlorotolue	13.72	91	367051	0.5160	mg/kg	98
90)	4chlorotolue	13.88	91	419897	0.5287	mg/kg	99
91)	135Trimebenz	13.86	105	442303	0.5077	mg/kg	99
92)	tbutylbenzen	14.32	119	381710	0.5061	mg/kg	99
93)	124Trimetben	14.40	105	434102	0.5077	mg/kg	99
94)	sbutylbenzen	14.64	105	580987	0.5299	mg/kg	99
95)	13Diclorbenz	14.80	146	251018	0.5263	mg/kg	98
96)	pIsopropylto	14.86	119	472971	0.5194	mg/kg	99
97)	14dichlorobe	14.93	146	247692	0.5183	mg/kg	98
98)	12dichlorobe	15.46	146	240876	0.5347	mg/kg	98
99)	nButylbenzen	15.46	91	447395	0.5379	mg/kg	99
100)	12dibromo3cl	16.58	157	37313	0.5351	mg/kg	94
101)	135Trichlorobenzene	16.89	180	161160	0.5222	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCVF1R.D Vial: 26
Acq On : 19 Nov 2019 3:21 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 03:42:18 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.71	180	147517	0.5181	mg/kg	98
103) Hexachlorobu	17.93	225	71297	0.4972	mg/kg	92
104) Naphthalene	18.02	128	438265	0.5714	mg/kg	99
105) 123Trichlben	18.32	180	142442	0.5434	mg/kg	99

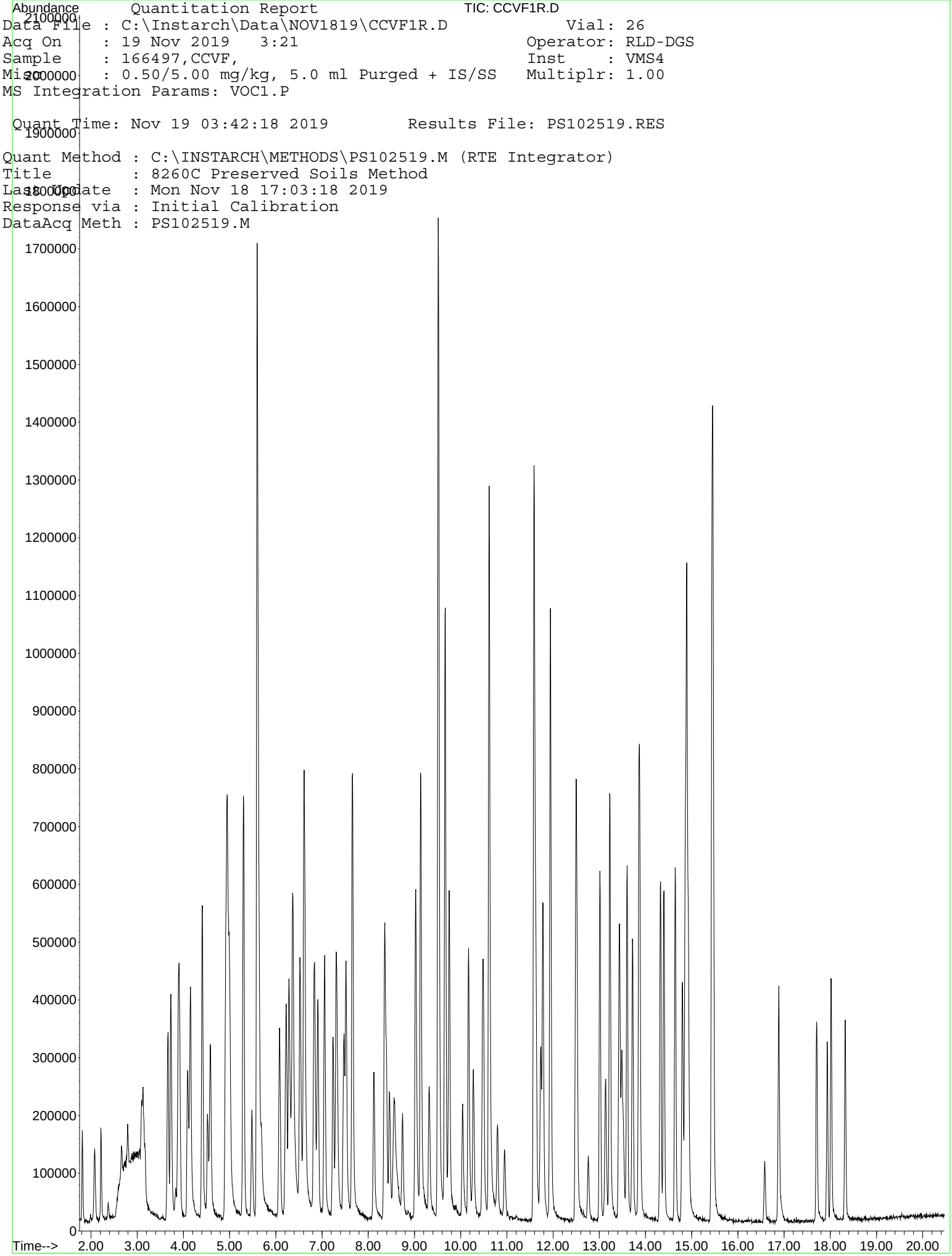
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCVF1R.D

Data File : C:\Instarch\Data\NOV1819\CCVF1R.D Vial: 26
Acq On : 19 Nov 2019 3:21 Operator: RLD-DGS
Sample : 166497,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 03:42:18 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Data File : C:\Instarch\Data\NOV1819\BFB2R.D Vial: 27
Acq On : 19 Nov 2019 7:01 Operator: RLD-DGS
Sample : 165498,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS102519.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.636 to 4.636 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	18832	PASS
75	95	30	60	48.5	48510	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.2	6219	PASS
173	174	0.00	2	0.6	442	PASS
174	95	50	100	78.3	78340	PASS
175	174	5	9	6.0	4689	PASS
176	174	95	101	99.8	78190	PASS
177	176	5	9	7.7	5986	PASS

PS102519.M Tue Dec 03 08:05:30 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1819\CCV2R.D Vial: 29
Acq On : 19 Nov 2019 8:07 Operator: RLD-DGS
Sample : 165498,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 19 08:27:41 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	65	0.00
2	T	Dichlorodi	0.3214	0.3149	2.02	62	0.00
3	PT	Chloromethan	0.4679	0.4196	10.32	62	0.01
4	CT	VinylChlorid	0.3512	0.3620	-3.08	64	0.00
5	T	Bromomethane	0.0811	0.0930	-14.67	81	0.00
6	T	Chloroethane	0.0749	0.1252	-67.16#	121	0.00
7	T	dichloroflmethane	0.1652	0.2123	-28.51#	98	0.00
8	T	Trichlorofma	0.2517	0.2405	4.45	61	0.00
9	T	Ethylether	0.2411	0.2472	-2.53	68	0.00
10	T	dichlorotfluoroethan	0.2846	0.3382	-18.83	78	0.00
11	T	propyleneoxide	0.0643	0.0855	-32.97#	87	0.00
12	T	Acrolein	0.0238	0.0252	-5.88	69	0.00
13	CT	11dichlorthe	0.2286	0.2527	-10.54	74	0.00
14	T	Trichlorotfluoroeth	0.1932	0.2281	-18.06	74	0.00
15	T	Acetone	0.1175	0.1192	-1.45	74	0.00
16	T	Iodomethane	0.0707	0.0508	28.15#	58	0.00
17	T	Carbon Dislf	0.5617	0.6292	-12.02	72	0.00
18	T	allylchloride	0.5447	0.5478	-0.57	65	0.00
19	T	methylacetate	0.1271	0.1346	-5.90	79	0.00
20	T	Methylchlorid	0.2967	0.2947	0.67	74	0.00
21	T	Acrylonitrile	0.1117	0.1435	-28.47#	79	0.00
22	T	t12dichlorte	0.2389	0.2514	-5.23	70	0.00
23	T	tbutylalcohol	0.0476	0.0534	-12.18	77	0.01
24	T	MtBE	0.6966	0.6832	1.92	66	0.00
25	T	Hexane	0.4620	0.5251	-13.66	71	0.00
26	PT	11dichlorota	0.5087	0.5389	-5.94	70	0.00
27	T	Vinylacetate	0.4838	0.5783	-19.53	70	-0.03
28	T	chloroprene	0.4377	0.4808	-9.85	70	0.00
29	T	Diisopether	0.9822	1.0042	-2.24	66	0.00
30	T	ETBE	0.7993	0.7816	2.21	63	0.00
31	T	22dichloropr	0.3814	0.3975	-4.22	68	0.00
32	T	c12dichlorte	0.2694	0.2727	-1.22	67	0.00
33	T	2Butanone	0.0340	0.0393	-15.59	78	0.00
34	T	propionitrile	0.0508	0.0629	-23.82#	82	0.00
35	T	Ethylacetate	0.0090	0.0106	-17.78	72	0.00
36	T	methacrylonitrile	0.1266	0.1430	-12.95	74	0.00
37	T	Bromochlorma	0.1155	0.1277	-10.56	71	0.00
38	T	Tetrahydofur	0.1162	0.1351	-16.27	76	0.00
39	CT	Chloroform	0.4377	0.4502	-2.86	70	0.00
40	T	111trichlota	0.3743	0.4163	-11.22	73	0.00
41	S	SURRDibrflma	0.2615	0.2596	0.73	64	0.00
42	T	Cyclohexane	0.4741	0.5071	-6.96	67	0.00
43	T	Carbtetraclo	0.3147	0.3397	-7.94	71	0.00
44	T	11dicloprope	0.1166	0.1189	-1.97	66	0.00
45	S	SURR12DCAd4	0.0645	0.0574	11.01	59	0.00
46	T	Benzene	0.9899	1.0836	-9.47	72	0.00
47	T	12dichlorota	0.3570	0.3524	1.29	67	0.00
48	T	TAME	0.6819	0.6416	5.91	62	0.00

49	T	trichloroete	0.2440	0.2664	-9.18	69	0.00
50	T	methylcyclohexane	0.4888	0.5259	-7.59	66	0.00
51	CT	12dicloropra	0.3036	0.3183	-4.84	69	0.00
52	T	23dicl1propene	0.3585	0.3530	1.53	64	0.00
53	T	Dibromometha	0.1588	0.1693	-6.61	73	0.00
54	T	methylmethacrylate	0.1681	0.1714	-1.96	67	0.00
55	T	14dioxane	0.0041	0.0044#	-7.32	76	0.00
56	T	Bromodiclrma	0.3097	0.3188	-2.94	68	0.00
57	T	2Nitropropane	0.0981	0.1212	-23.55#	84	0.00
58		2CLEVE	0.1900	0.2107	-10.89	70	0.00
59	T	c13dicloproe	0.4089	0.4050	0.95	64	0.00
60	T	4Meth2Pentan	0.3298	0.3972	-20.44#	74	0.00
61	S	SURRd8Tolule	1.0186	0.9897	2.84	63	0.00
62	CT	Toluene	0.6568	0.6910	-5.21	69	0.00
63	T	t13Dicloprop	0.3485	0.3567	-2.35	65	0.00
64	T	ethylmethacrylate	0.3550	0.3577	-0.76	66	0.00
65	T	112Triclotha	0.1983	0.2113	-6.56	70	0.00
66	T	Tetrachlorte	0.2718	0.2799	-2.98	66	0.00
67	T	13Diclorpropa	0.3928	0.4126	-5.04	69	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	65	0.00
69	T	2Hexanone	0.2896	0.3667	-26.62#	77	0.00
70	T	Clorodibrmta	0.2904	0.2867	1.27	66	0.00
71	T	12Dibrometha	0.3011	0.3088	-2.56	67	0.00
72	PT	Chlorobenzen	0.8480	0.8740	-3.07	67	0.00
73	T	1Clhexane	0.4238	0.4560	-7.60	70	0.00
74	T	1112Tetclota	0.2928	0.2843	2.90	64	0.00
75	CT	Ethylbenzene	1.4639	1.5398	-5.18	68	0.00
76	T	m p-Xylene	0.5532	0.5859	-5.91	69	0.00
77	T	o-Xylene	0.5669	0.5545	2.19	64	0.00
78	T	Styrene	0.8879	0.9119	-2.70	66	0.00
79	PT	Bromoform	0.1982	0.2050	-3.43	72	0.00
80	T	Isopropylben	1.4629	1.4855	-1.54	65	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	64	0.00
82	T	cyclohexanone	0.0422	0.0467	-10.66	76	0.00
83	S	SURR4BrFBenz	0.9621	0.9104	5.37	61	0.00
84	T	Bromobenzene	0.6751	0.7166	-6.15	69	0.00
85	PT	1122Tetrclta	0.8358	0.9448	-13.04	76	0.00
86	T	123Triclproa	1.0165	1.1392	-12.07	72	0.00
87	T	14dichloro2butene	0.2573	0.2919	-13.45	74	0.00
88	T	n-Propylbenz	3.1476	3.4951	-11.04	69	0.00
89	T	2chlorotolue	1.8890	1.9866	-5.17	67	0.00
90	T	4chlorotolue	2.1092	2.2049	-4.54	67	0.00
91	T	135Trimebenz	2.3137	2.3309	-0.74	65	0.00
92	T	tbutylbenzen	2.0029	2.0305	-1.38	65	0.00
93	T	124Trimetben	2.2709	2.3517	-3.56	67	0.00
94	T	sbutylbenzen	2.9120	3.1088	-6.76	67	0.00
95	T	13Diclorbenz	1.2665	1.3249	-4.61	68	0.00
96	T	pIsopropylto	2.4182	2.5616	-5.93	67	0.00
97	T	14dichlorobe	1.2693	1.3483	-6.22	71	0.00
98	T	12dichlorobe	1.1964	1.2335	-3.10	68	0.00
99	T	nButylbenzen	2.2090	2.4462	-10.74	70	0.00
100	T	12dibromo3cl	0.1852	0.1840	0.65	70	0.00
101	T	135Trichlorobenzene	0.8196	0.8428	-2.83	66	0.00
102	T	124Trichlobe	0.7561	0.8031	-6.22	70	0.00
103	T	Hexachlorobu	0.3809	0.3934	-3.28	69	0.00
104	T	Naphthalene	2.0370	2.2885	-12.35	75	0.00
105	T	123Trichlben	0.6961	0.7709	-10.75	72	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Dec 03 08:08:14 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1819\CCV2R.D Vial: 29
Acq On : 19 Nov 2019 8:07 Operator: RLD-DGS
Sample : 165498,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 19 08:27:41 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	65	0.00
2	T	Dichlorodi	0.5000	0.4900	2.00	62	0.00
3	PT	Chloromethan	0.5000	0.4484	10.32	62	0.01
4	CT	VinylChlorid	0.5000	0.5154	-3.08	64	0.00
5	T	Bromomethane	0.5000	0.6803	-36.06#	81	0.00
6	T	Chloroethane	0.5000	0.8360	-67.20#	121	0.00
7	T	dichloroflmethane	0.5000	0.7545	-50.90#	98	0.00
8	T	Trichlorofma	0.5000	0.4778	4.44	61	0.00
9	T	Ethylether	0.5000	0.5127	-2.54	68	0.00
10	T	dichlorotfluoroethan	0.5000	0.5942	-18.84	78	0.00
11	T	propyleneoxide	5.0000	6.6465	-32.93#	87	0.00
12	T	Acrolein	2.5000	2.6428	-5.71	69	0.00
13	CT	11dichlorthe	0.5000	0.5526	-10.52	74	0.00
14	T	Trichlorotfluoroeth	1.0000	1.1809	-18.09	74	0.00
15	T	Acetone	5.0000	5.0700	-1.40	74	0.00
16	T	Iodomethane	1.0000	0.7201	27.99#	58	0.00
17	T	Carbon Dislf	1.0000	1.1201	-12.01	72	0.00
18	T	allylchloride	1.0000	1.0058	-0.58	65	0.00
19	T	methylacetate	0.5000	0.5296	-5.92	79	0.00
20	T	Methylchlorid	0.5000	0.5517	-10.34	74	0.00
21	T	Acrylonitrile	2.5000	2.8375	-13.50	79	0.00
22	T	t12dichlorte	0.5000	0.5261	-5.22	70	0.00
23	T	tbutylalcohol	25.0000	28.0437	-12.17	77	0.01
24	T	MtBE	0.5000	0.4903	1.94	66	0.00
25	T	Hexane	1.0000	1.1365	-13.65	71	0.00
26	PT	11dichlorota	0.5000	0.5297	-5.94	70	0.00
27	T	Vinylacetate	5.0000	5.9763	-19.53	70	-0.03
28	T	chloroprene	1.0000	1.0985	-9.85	70	0.00
29	T	Diisopether	0.5000	0.5112	-2.24	66	0.00
30	T	ETBE	0.5000	0.4889	2.22	63	0.00
31	T	22dichloropr	0.5000	0.5211	-4.22	68	0.00
32	T	c12dichlorte	0.5000	0.5060	-1.20	67	0.00
33	T	2Butanone	5.0000	5.7713	-15.43	78	0.00
34	T	propionitrile	5.0000	5.7198	-14.40	82	0.00
35	T	Ethylacetate	2.5000	2.7494	-9.98	72	0.00
36	T	methacrylonitrile	1.0000	1.1290	-12.90	74	0.00
37	T	Bromochlorma	0.5000	0.5525	-10.50	71	0.00
38	T	Tetrahydofur	5.0000	5.8119	-16.24	76	0.00
39	CT	Chloroform	0.5000	0.5142	-2.84	70	0.00
40	T	111trichlota	0.5000	0.5561	-11.22	73	0.00
41	S	SURRDibrflma	1.0000	0.9926	0.74	64	0.00
42	T	Cyclohexane	0.5000	0.5348	-6.96	67	0.00
43	T	Carbtetraclo	0.5000	0.5396	-7.92	71	0.00
44	T	11dicloprope	0.5000	0.5100	-2.00	66	0.00
45	S	SURR12DCAd4	1.0000	0.8899	11.01	59	0.00
46	T	Benzene	0.5000	0.5474	-9.48	72	0.00
47	T	12dichlorota	0.5000	0.4936	1.28	67	0.00
48	T	TAME	0.5000	0.4704	5.92	62	0.00

49	T	trichloroete	0.5000	0.5460	-9.20	69	0.00
50	T	methylcyclohexane	0.5000	0.5380	-7.60	66	0.00
51	CT	12dicloropra	0.5000	0.5242	-4.84	69	0.00
52	T	23dicl1propene	0.5000	0.4923	1.54	64	0.00
53	T	Dibromometha	0.5000	0.5329	-6.58	73	0.00
54	T	methylmethacrylate	0.5000	0.4810	3.80	67	0.00
55	T	14dioxane	25.0000	26.8852	-7.54	76	0.00
56	T	Bromodiclrma	0.5000	0.5147	-2.94	68	0.00
57	T	2Nitropropane	5.0000	6.1777	-23.55#	84	0.00
58		2CLEVE	2.5000	2.7733	-10.93	70	0.00
59	T	c13dicloproe	0.5000	0.4953	0.94	64	0.00
60	T	4Meth2Pentan	5.0000	6.0210	-20.42#	74	0.00
61	S	SURRd8Tolule	1.0000	0.9716	2.84	63	0.00
62	CT	Toluene	0.5000	0.5261	-5.22	69	0.00
63	T	t13Dicloprop	0.5000	0.5118	-2.36	65	0.00
64	T	ethylmethacrylate	1.0000	1.0078	-0.78	66	0.00
65	T	112Triclotha	0.5000	0.5328	-6.56	70	0.00
66	T	Tetrachlorte	0.5000	0.5148	-2.96	66	0.00
67	T	13Diclorpropa	0.5000	0.5253	-5.06	69	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	65	0.00
69	T	2Hexanone	5.0000	6.3309	-26.62#	77	0.00
70	T	Clorodibrmta	0.5000	0.4937	1.26	66	0.00
71	T	12Dibrometha	0.5000	0.5128	-2.56	67	0.00
72	PT	Chlorobenzen	0.5000	0.5153	-3.06	67	0.00
73	T	1Clhexane	0.5000	0.5381	-7.62	70	0.00
74	T	1112Tetclota	0.5000	0.4856	2.88	64	0.00
75	CT	Ethylbenzene	0.5000	0.5259	-5.18	68	0.00
76	T	m p-Xylene	1.0000	1.0590	-5.90	69	0.00
77	T	o-Xylene	0.5000	0.4891	2.18	64	0.00
78	T	Styrene	0.5000	0.5135	-2.70	66	0.00
79	PT	Bromoform	0.5000	0.5171	-3.42	72	0.00
80	T	Isopropylben	0.5000	0.5078	-1.56	65	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	64	0.00
82	T	cyclohexanone	10.0000	11.0797	-10.80	76	0.00
83	S	SURR4BrFBenz	1.0000	0.9463	5.37	61	0.00
84	T	Bromobenzene	0.5000	0.5307	-6.14	69	0.00
85	PT	1122Tetrclta	0.5000	0.5652	-13.04	76	0.00
86	T	123Triclproa	0.5000	0.5604	-12.08	72	0.00
87	T	14dichloro2butene	0.5000	0.5673	-13.46	74	0.00
88	T	n-Propylbenz	0.5000	0.5552	-11.04	69	0.00
89	T	2chlorotolue	0.5000	0.5258	-5.16	67	0.00
90	T	4chlorotolue	0.5000	0.5227	-4.54	67	0.00
91	T	135Trimebenz	0.5000	0.5037	-0.74	65	0.00
92	T	tbutylbenzen	0.5000	0.5069	-1.38	65	0.00
93	T	124Trimetben	0.5000	0.5178	-3.56	67	0.00
94	T	sbutylbenzen	0.5000	0.5338	-6.76	67	0.00
95	T	13Diclorbenz	0.5000	0.5231	-4.62	68	0.00
96	T	pIsopropylto	0.5000	0.5296	-5.92	67	0.00
97	T	14dichlorobe	0.5000	0.5311	-6.22	71	0.00
98	T	12dichlorobe	0.5000	0.5155	-3.10	68	0.00
99	T	nButylbenzen	0.5000	0.5537	-10.74	70	0.00
100	T	12dibromo3cl	0.5000	0.4968	0.64	70	0.00
101	T	135Trichlorobenzene	0.5000	0.5142	-2.84	66	0.00
102	T	124Trichlobe	0.5000	0.5311	-6.22	70	0.00
103	T	Hexachlorobu	0.5000	0.5165	-3.30	69	0.00
104	T	Naphthalene	0.5000	0.5617	-12.34	75	0.00
105	T	123Trichlben	0.5000	0.5538	-10.76	72	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Dec 03 08:07:54 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCV2R.D Vial: 29
Acq On : 19 Nov 2019 8:07 Operator: RLD-DGS
Sample : 165498,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 08:27:41 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	881459	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	714759	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	371048	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	228801	0.993	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
45) SURR12DCAd4	7.24	102	50591	0.890	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 89 %			
61) SURRd8Tolule	9.67	98	872347	0.972	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97 %			
83) SURR4BrFBenz	13.23	95	337817	0.946	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	138796	0.4900	mg/kg	97
3) Chloromethan	2.08	50	184940	0.4484	mg/kg	100
4) VinylChlorid	2.21	62	159536	0.5154	mg/kg	99
5) Bromomethane	2.66	94	40998	0.6803	mg/kg	92
6) Chloroethane	2.79	64	55179	0.8360	mg/kg	98
7) dichloroflmethane	3.10	67	93583	0.7545	mg/kg	85
8) Trichlorofma	3.13	101	106011	0.4778	mg/kg	96
9) Ethylether	3.67	59	108955	0.5127	mg/kg	95
10) dichlorotfluoroethan	3.66	67	149073	0.5942	mg/kg	98
11) propyleneoxide	3.73	58	376763	6.6465	mg/kg	95
12) Acrolein	3.84	56	55506	2.6428	mg/kg	94
13) 11dichlorthe	3.89	96	111371	0.5526	mg/kg	95
14) Trichlorotfluoroeth	3.91	101	201080	1.1809	mg/kg	98
15) Acetone	4.09	43	525217	5.0700	mg/kg	98
16) Iodomethane	4.09	127	44738	0.7201	mg/kg	93
17) Carbon Dislf	4.15	76	554624	1.1201	mg/kg	100
18) allylchloride	4.41	41	482877	1.0058	mg/kg	97
19) methylacetate	4.53	74	59315	0.5296	mg/kg	91
20) Methylchlorid	4.58	84	129898	0.5517	mg/kg	96
21) Acrylonitrile	4.96	53	316168	2.8375	mg/kg	97
22) t12dichlorte	4.95	96	110782	0.5261	mg/kg	97
23) tbutylalcohol	4.92	59	1176855	28.0437	mg/kg	99
24) MtBE	5.00	73	301096	0.4903	mg/kg#	10
25) Hexane	5.30	57	462852	1.1365	mg/kg	99
26) 11dichlorota	5.49	63	237518	0.5297	mg/kg	98
27) Vinylacetate	5.60	43	2548614	5.9763	mg/kg	99
28) chloroprene	5.60	53	423819	1.0985	mg/kg	99
29) Diisopether	5.63	45	442586	0.5112	mg/kg#	93
30) ETBE	6.08	59	344460	0.4889	mg/kg	99
31) 22dichloropr	6.22	77	175178	0.5211	mg/kg	97
32) c12dichlorte	6.23	96	120175	0.5060	mg/kg	97
33) 2Butanone	6.28	72	173159	5.7713	mg/kg	99
34) propionitrile	6.36	54	277179	5.7198	mg/kg	99
35) Ethylacetate	6.37	88	23332	2.7494	mg/kg#	78
36) methacrylonitrile	6.53	67	126036	1.1290	mg/kg	98
37) Bromochlorma	6.52	128	56265	0.5525	mg/kg	98
38) Tetrahydofur	6.61	42	595250	5.8119	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCV2R.D Vial: 29
Acq On : 19 Nov 2019 8:07 Operator: RLD-DGS
Sample : 165498,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 08:27:41 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	198396	0.5142 mg/kg	96
40)	111trichlota	6.84	97	183474	0.5561 mg/kg	98
42)	Cyclohexane	6.91	56	223508	0.5348 mg/kg	99
43)	Carbtetraclo	7.06	119	149697	0.5396 mg/kg	98
44)	11dicloprope	7.06	110	52402	0.5100 mg/kg	96
46)	Benzene	7.31	78	477578	0.5474 mg/kg	98
47)	12dichlorota	7.33	62	155296	0.4936 mg/kg	95
48)	TAME	7.48	73	282765	0.4704 mg/kg	94
49)	trichloroete	8.12	95	117411	0.5460 mg/kg	98
50)	methylcyclohexane	8.36	83	231774	0.5380 mg/kg	97
51)	12dicloropra	8.39	63	140286	0.5242 mg/kg	98
52)	23dicl1propene	8.46	75	155558	0.4923 mg/kg	97
53)	Dibromometha	8.55	93	74608	0.5329 mg/kg	93
54)	methylmethacrylate	8.57	69	75537	0.4810 mg/kg	97
55)	14dioxane	8.61	88	96099	26.8852 mg/kg	97
56)	Bromodiclrma	8.74	83	140497	0.5147 mg/kg	100
57)	2Nitropropane	9.03	43	534053	6.1777 mg/kg	98
58)	2CLEVE	9.14	63	464358	2.7733 mg/kg	100
59)	c13dicloproe	9.32	75	178517	0.4953 mg/kg	98
60)	4Meth2Pentan	9.52	43	1750535	6.0210 mg/kg	100
62)	Toluene	9.76	92	304559	0.5261 mg/kg	99
63)	t13Dicloprop	10.04	75	157230	0.5118 mg/kg	96
64)	ethylmethacrylate	10.17	69	315315	1.0078 mg/kg	96
65)	112Triclotha	10.27	83	93143	0.5328 mg/kg	97
66)	Tetrachlorte	10.48	166	123340	0.5148 mg/kg	100
67)	13Diclorpropa	10.50	76	181867	0.5253 mg/kg	98
69)	2Hexanone	10.62	43	1310536	6.3309 mg/kg	98
70)	Clorodibrmta	10.80	129	102461	0.4937 mg/kg	98
71)	12Dibrometha	10.96	107	110369	0.5128 mg/kg	98
72)	Chlorobenzen	11.63	112	312337	0.5153 mg/kg	99
73)	1Clhexane	11.59	91	162981	0.5381 mg/kg	96
74)	1112Tetclota	11.73	131	101617	0.4856 mg/kg	99
75)	Ethylbenzene	11.78	91	550302	0.5259 mg/kg	98
76)	m p-Xylene	11.94	106	418754	1.0590 mg/kg	98
77)	o-Xylene	12.50	106	198158	0.4891 mg/kg	95
78)	Styrene	12.52	104	325891	0.5135 mg/kg	98
79)	Bromoform	12.76	173	73266	0.5171 mg/kg	98
80)	Isopropylben	13.02	105	530905	0.5078 mg/kg	98
82)	cyclohexanone	13.13	55	173348	11.0797 mg/kg	99
84)	Bromobenzene	13.45	156	132951	0.5307 mg/kg	98
85)	1122Tetrclta	13.43	83	175289	0.5652 mg/kg	98
86)	123Triclproa	13.49	75	211355	0.5604 mg/kg	100
87)	14dichloro2butene	13.52	53	54153	0.5673 mg/kg	96
88)	n-Propylbenz	13.60	91	648428	0.5552 mg/kg	100
89)	2chlorotolue	13.72	91	368564	0.5258 mg/kg	98
90)	4chlorotolue	13.88	91	409062	0.5227 mg/kg	100
91)	135Trimebenz	13.86	105	432440	0.5037 mg/kg	98
92)	tbutylbenzen	14.33	119	376707	0.5069 mg/kg	98
93)	124Trimetben	14.40	105	436289	0.5178 mg/kg	99
94)	sbutylbenzen	14.65	105	576766	0.5338 mg/kg	99
95)	13Diclorbenz	14.79	146	245808	0.5231 mg/kg	98
96)	pIsopropylto	14.86	119	475244	0.5296 mg/kg	99
97)	14dichlorobe	14.93	146	250141	0.5311 mg/kg	99
98)	12dichlorobe	15.47	146	228837	0.5155 mg/kg	98
99)	nButylbenzen	15.46	91	453835	0.5537 mg/kg	98
100)	12dibromo3cl	16.58	157	34140	0.4968 mg/kg	94
101)	135Trichlorobenzene	16.88	180	156359	0.5142 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCV2R.D Vial: 29
Acq On : 19 Nov 2019 8:07 Operator: RLD-DGS
Sample : 165498,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 08:27:41 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.71	180	148997	0.5311 mg/kg	99
103) Hexachlorobu	17.93	225	72989	0.5165 mg/kg	97
104) Naphthalene	18.02	128	424572	0.5617 mg/kg	99
105) 123Trichlben	18.32	180	143025	0.5538 mg/kg	97

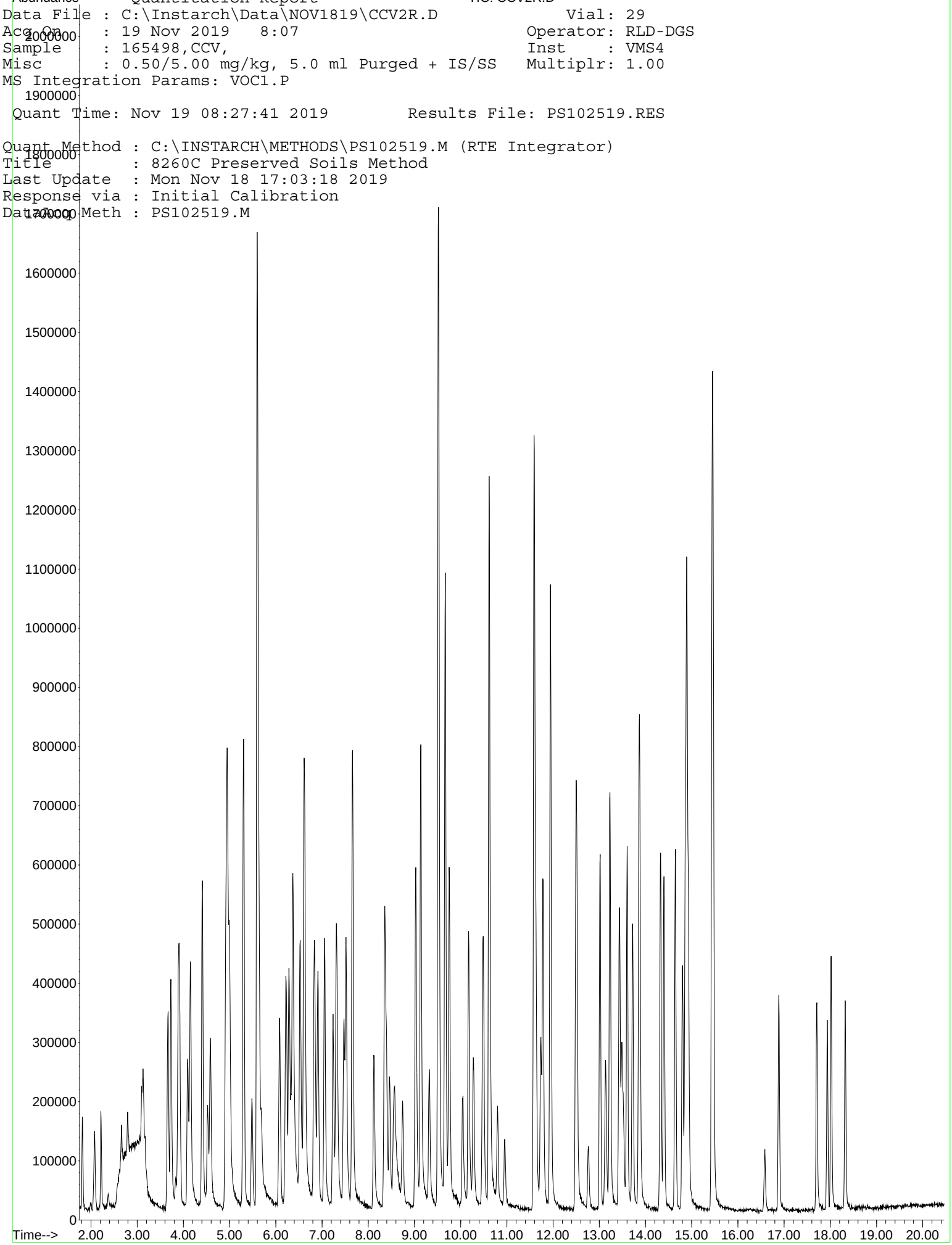
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCV2R.D

Data File : C:\Instarch\Data\NOV1819\CCV2R.D Vial: 29
Acq On : 19 Nov 2019 8:07 Operator: RLD-DGS
Sample : 165498,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 08:27:41 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
Data Meth : PS102519.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1819\CCVF2R.D Vial: 45
Acq On : 19 Nov 2019 15:43 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 19 16:04:29 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	68	0.00
2	T	Dichlorodi	0.3214	0.3022	5.97	62	0.00
3	PT	Chloromethan	0.4679	0.4348	7.07	68	0.00
4	CT	VinylChlorid	0.3512	0.3459	1.51	64	0.00
5	T	Bromomethane	0.0811	0.0911	-12.33	83	0.00
6	T	Chloroethane	0.0749	0.1173	-56.61#	119	0.00
7	T	dichloroflmethane	0.1652	0.1909	-15.56	92	0.00
8	T	Trichlorofma	0.2517	0.2159	14.22	58	0.00
9	T	Ethylether	0.2411	0.2490	-3.28	73	0.00
10	T	dichlorotfluoroethan	0.2846	0.3195	-12.26	77	0.00
11	T	propyleneoxide	0.0643	0.0836	-30.02	90	0.00
12	T	Acrolein	0.0238	0.0274	-15.13	79	0.00
13	CT	11dichlorthe	0.2286	0.2483	-8.62	76	0.00
14	T	Trichlorotfluoroeth	0.1932	0.2212	-14.49	76	0.00
15	T	Acetone	0.1175	0.1151	2.04	75	0.00
16	T	Iodomethane	0.0707	0.0676	4.38	81	0.00
17	T	Carbon Dislf	0.5617	0.6002	-6.85	72	0.00
18	T	allylchloride	0.5447	0.5289	2.90	66	0.00
19	T	methylacetate	0.1271	0.1463	-15.11	90	0.00
20	T	Methylchlorid	0.2967	0.2844	4.15	75	0.00
21	T	Acrylonitrile	0.1117	0.1355	-21.31	78	0.00
22	T	t12dichlorte	0.2389	0.2645	-10.72	78	0.00
23	T	tbutylalcohol	0.0476	0.0503	-5.67	76	0.02
24	T	MtBE	0.6966	0.6992	-0.37	71	0.00
25	T	Hexane	0.4620	0.4975	-7.68	71	0.00
26	PT	11dichlorota	0.5087	0.5315	-4.48	73	0.00
27	T	Vinylacetate	0.4838	0.5774	-19.35	73	-0.03
28	T	chloroprene	0.4377	0.4672	-6.74	72	0.00
29	T	Diisopether	0.9822	1.0209	-3.94	71	0.00
30	T	ETBE	0.7993	0.7790	2.54	66	0.00
31	T	22dichloropr	0.3814	0.3902	-2.31	70	0.00
32	T	c12dichlorte	0.2694	0.2831	-5.09	73	0.00
33	T	2Butanone	0.0340	0.0389	-14.41	82	0.00
34	T	propionitrile	0.0508	0.0606	-19.29	83	0.00
35	T	Ethylacetate	0.0090	0.0105	-16.67	75	0.00
36	T	methacrylonitrile	0.1266	0.1437	-13.51	79	0.00
37	T	Bromochlorma	0.1155	0.1304	-12.90	76	0.00
38	T	Tetrahydofur	0.1162	0.1328	-14.29	79	0.00
39	CT	Chloroform	0.4377	0.4516	-3.18	74	0.00
40	T	111trichlota	0.3743	0.4038	-7.88	74	0.00
41	S	SURRDibrflma	0.2615	0.2574	1.57	67	0.00
42	T	Cyclohexane	0.4741	0.4819	-1.65	67	0.00
43	T	Carbtetraclo	0.3147	0.3278	-4.16	72	0.00
44	T	11dicloprope	0.1166	0.1289	-10.55	75	0.00
45	S	SURR12DCAd4	0.0645	0.0657	-1.86	71	0.00
46	T	Benzene	0.9899	1.0943	-10.55	76	0.00
47	T	12dichlorota	0.3570	0.3834	-7.39	76	0.00
48	T	TAME	0.6819	0.6691	1.88	68	0.00

49	T	trichloroete	0.2440	0.2741	-12.34	75	0.00
50	T	methylcyclohexane	0.4888	0.5020	-2.70	66	0.00
51	CT	12dicloropra	0.3036	0.3142	-3.49	72	0.00
52	T	23dicl1propene	0.3585	0.3469	3.24	66	0.00
53	T	Dibromometha	0.1588	0.1696	-6.80	77	0.00
54	T	methylmethacrylate	0.1681	0.1779	-5.83	73	0.00
55	T	14dioxane	0.0041	0.0045#	-9.76	82	0.00
56	T	Bromodiclrma	0.3097	0.3259	-5.23	73	0.00
57	T	2Nitropropane	0.0981	0.1158	-18.04	84	0.00
58		2CLEVE	0.1900	0.2136	-12.42	75	0.00
59	T	c13dicloproe	0.4089	0.4267	-4.35	71	0.00
60	T	4Meth2Pentan	0.3298	0.3884	-17.77	76	0.00
61	S	SURRd8Tolule	1.0186	1.0080	1.04	67	0.00
62	CT	Toluene	0.6568	0.6921	-5.37	73	0.00
63	T	t13Dicloprop	0.3485	0.3660	-5.02	70	0.00
64	T	ethylmethacrylate	0.3550	0.3626	-2.14	70	0.00
65	T	112Triclotha	0.1983	0.2064	-4.08	72	0.00
66	T	Tetrachlorte	0.2718	0.2905	-6.88	72	0.00
67	T	13Diclorpropa	0.3928	0.4117	-4.81	73	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	69	0.00
69	T	2Hexanone	0.2896	0.3482	-20.23	78	0.00
70	T	Clorodibrmta	0.2904	0.2910	-0.21	72	0.00
71	T	12Dibrometha	0.3011	0.3236	-7.47	75	0.00
72	PT	Chlorobenzen	0.8480	0.8638	-1.86	71	0.00
73	T	1Clhexane	0.4238	0.4240	-0.05	69	0.00
74	T	1112Tetclota	0.2928	0.2928	0.00	70	0.00
75	CT	Ethylbenzene	1.4639	1.5352	-4.87	72	0.00
76	T	m p-Xylene	0.5532	0.5741	-3.78	72	0.00
77	T	o-Xylene	0.5669	0.5428	4.25	66	0.00
78	T	Styrene	0.8879	0.9170	-3.28	70	0.00
79	PT	Bromoform	0.1982	0.1939	2.17	73	0.00
80	T	Isopropylben	1.4629	1.4798	-1.16	69	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	70	0.00
82	T	cyclohexanone	0.0422	0.0423	-0.24	75	0.00
83	S	SURR4BrFBenz	0.9621	0.9040	6.04	67	0.00
84	T	Bromobenzene	0.6751	0.6980	-3.39	73	0.00
85	PT	1122Tetrclta	0.8358	0.8909	-6.59	78	0.00
86	T	123Triclproa	1.0165	1.0531	-3.60	73	0.00
87	T	14dichloro2butene	0.2573	0.2414	6.18	67	0.01
88	T	n-Propylbenz	3.1476	3.3901	-7.70	73	0.00
89	T	2chlorotolue	1.8890	1.9237	-1.84	71	0.00
90	T	4chlorotolue	2.1092	2.2376	-6.09	74	0.00
91	T	135Trimebenz	2.3137	2.3535	-1.72	72	0.00
92	T	tbutylbenzen	2.0029	1.9656	1.86	69	0.00
93	T	124Trimetben	2.2709	2.3625	-4.03	73	0.00
94	T	sbutylbenzen	2.9120	3.0068	-3.26	71	0.00
95	T	13Diclorbenz	1.2665	1.2875	-1.66	72	0.00
96	T	pIsopropylto	2.4182	2.5080	-3.71	71	0.00
97	T	14dichlorobe	1.2693	1.2690	0.02	73	0.00
98	T	12dichlorobe	1.1964	1.2501	-4.49	76	0.00
99	T	nButylbenzen	2.2090	2.3321	-5.57	73	0.00
100	T	12dibromo3cl	0.1852	0.1729	6.64	72	0.00
101	T	135Trichlorobenzene	0.8196	0.8837	-7.82	75	0.00
102	T	124Trichlobe	0.7561	0.7788	-3.00	74	0.00
103	T	Hexachlorobu	0.3809	0.3568	6.33	69	0.00
104	T	Naphthalene	2.0370	2.2081	-8.40	79	0.00
105	T	123Trichlben	0.6961	0.7286	-4.67	74	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Dec 03 08:12:03 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1819\CCVF2R.D Vial: 45
Acq On : 19 Nov 2019 15:43 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 19 16:04:29 2019

Quant Method : C:\INSTARCH\METHODS\PS102519.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS102519.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	68	0.00
2	T	Dichlorodi	0.5000	0.4702	5.96	62	0.00
3	PT	Chloromethan	0.5000	0.4646	7.08	68	0.00
4	CT	VinylChlorid	0.5000	0.4925	1.50	64	0.00
5	T	Bromomethane	0.5000	0.6651	-33.02	83	0.00
6	T	Chloroethane	0.5000	0.7832	-56.64#	119	0.00
7	T	dichloroflmethane	0.5000	0.6742	-34.84	92	0.00
8	T	Trichlorofma	0.5000	0.4288	14.24	58	0.00
9	T	Ethylether	0.5000	0.5165	-3.30	73	0.00
10	T	dichlorotfluoroethan	0.5000	0.5612	-12.24	77	0.00
11	T	propyleneoxide	5.0000	6.5025	-30.05	90	0.00
12	T	Acrolein	2.5000	2.8703	-14.81	79	0.00
13	CT	11dichlorthe	0.5000	0.5430	-8.60	76	0.00
14	T	Trichlorotfluoroeth	1.0000	1.1451	-14.51	76	0.00
15	T	Acetone	5.0000	4.8971	2.06	75	0.00
16	T	Iodomethane	1.0000	0.9150	8.50	81	0.00
17	T	Carbon Dislf	1.0000	1.0685	-6.85	72	0.00
18	T	allylchloride	1.0000	0.9710	2.90	66	0.00
19	T	methylacetate	0.5000	0.5755	-15.10	90	0.00
20	T	Methylchlorid	0.5000	0.5316	-6.32	75	0.00
21	T	Acrylonitrile	2.5000	2.6872	-7.49	78	0.00
22	T	t12dichlorte	0.5000	0.5535	-10.70	78	0.00
23	T	tbutylalcohol	25.0000	26.4194	-5.68	76	0.02
24	T	MtBE	0.5000	0.5018	-0.36	71	0.00
25	T	Hexane	1.0000	1.0768	-7.68	71	0.00
26	PT	11dichlorota	0.5000	0.5224	-4.48	73	0.00
27	T	Vinylacetate	5.0000	5.9668	-19.34	73	-0.03
28	T	chloroprene	1.0000	1.0674	-6.74	72	0.00
29	T	Diisopether	0.5000	0.5197	-3.94	71	0.00
30	T	ETBE	0.5000	0.4873	2.54	66	0.00
31	T	22dichloropr	0.5000	0.5116	-2.32	70	0.00
32	T	c12dichlorte	0.5000	0.5254	-5.08	73	0.00
33	T	2Butanone	5.0000	5.7195	-14.39	82	0.00
34	T	propionitrile	5.0000	5.5229	-10.46	83	0.00
35	T	Ethylacetate	2.5000	2.7343	-9.37	75	0.00
36	T	methacrylonitrile	1.0000	1.1345	-13.45	79	0.00
37	T	Bromochlorma	0.5000	0.5642	-12.84	76	0.00
38	T	Tetrahydofur	5.0000	5.7151	-14.30	79	0.00
39	CT	Chloroform	0.5000	0.5159	-3.18	74	0.00
40	T	111trichlota	0.5000	0.5394	-7.88	74	0.00
41	S	SURRDibrflma	1.0000	0.9845	1.55	67	0.00
42	T	Cyclohexane	0.5000	0.5082	-1.64	67	0.00
43	T	Carbtetraclo	0.5000	0.5207	-4.14	72	0.00
44	T	11dicloprope	0.5000	0.5531	-10.62	75	0.00
45	S	SURR12DCAd4	1.0000	1.0184	-1.84	71	0.00
46	T	Benzene	0.5000	0.5528	-10.56	76	0.00
47	T	12dichlorota	0.5000	0.5371	-7.42	76	0.00
48	T	TAME	0.5000	0.4906	1.88	68	0.00

49	T	trichloroete	0.5000	0.5617	-12.34	75	0.00
50	T	methylcyclohexane	0.5000	0.5136	-2.72	66	0.00
51	CT	12dicloropra	0.5000	0.5175	-3.50	72	0.00
52	T	23dicl1propene	0.5000	0.4838	3.24	66	0.00
53	T	Dibromometha	0.5000	0.5339	-6.78	77	0.00
54	T	methylmethacrylate	0.5000	0.4981	0.38	73	0.00
55	T	14dioxane	25.0000	27.4706	-9.88	82	0.00
56	T	Bromodiclrma	0.5000	0.5262	-5.24	73	0.00
57	T	2Nitropropane	5.0000	5.9062	-18.12	84	0.00
58		2CLEVE	2.5000	2.8116	-12.46	75	0.00
59	T	c13dicloproe	0.5000	0.5217	-4.34	71	0.00
60	T	4Meth2Pentan	5.0000	5.8871	-17.74	76	0.00
61	S	SURRd8Tolule	1.0000	0.9896	1.04	67	0.00
62	CT	Toluene	0.5000	0.5269	-5.38	73	0.00
63	T	t13Dicloprop	0.5000	0.5250	-5.00	70	0.00
64	T	ethylmethacrylate	1.0000	1.0215	-2.15	70	0.00
65	T	112Triclotha	0.5000	0.5204	-4.08	72	0.00
66	T	Tetrachlorte	0.5000	0.5345	-6.90	72	0.00
67	T	13Diclorpropa	0.5000	0.5241	-4.82	73	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	69	0.00
69	T	2Hexanone	5.0000	6.0106	-20.21	78	0.00
70	T	Clorodibrmta	0.5000	0.5011	-0.22	72	0.00
71	T	12Dibrometha	0.5000	0.5373	-7.46	75	0.00
72	PT	Chlorobenzen	0.5000	0.5093	-1.86	71	0.00
73	T	1Clhexane	0.5000	0.5003	-0.06	69	0.00
74	T	1112Tetclota	0.5000	0.5000	0.00	70	0.00
75	CT	Ethylbenzene	0.5000	0.5244	-4.88	72	0.00
76	T	m p-Xylene	1.0000	1.0378	-3.78	72	0.00
77	T	o-Xylene	0.5000	0.4788	4.24	66	0.00
78	T	Styrene	0.5000	0.5164	-3.28	70	0.00
79	PT	Bromoform	0.5000	0.4890	2.20	73	0.00
80	T	Isopropylben	0.5000	0.5058	-1.16	69	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	70	0.00
82	T	cyclohexanone	10.0000	10.0419	-0.42	75	0.00
83	S	SURR4BrFBenz	1.0000	0.9396	6.04	67	0.00
84	T	Bromobenzene	0.5000	0.5170	-3.40	73	0.00
85	PT	1122Tetrclta	0.5000	0.5330	-6.60	78	0.00
86	T	123Triclproa	0.5000	0.5180	-3.60	73	0.00
87	T	14dichloro2butene	0.5000	0.4692	6.16	67	0.01
88	T	n-Propylbenz	0.5000	0.5385	-7.70	73	0.00
89	T	2chlorotolue	0.5000	0.5092	-1.84	71	0.00
90	T	4chlorotolue	0.5000	0.5304	-6.08	74	0.00
91	T	135Trimebenz	0.5000	0.5086	-1.72	72	0.00
92	T	tbutylbenzen	0.5000	0.4907	1.86	69	0.00
93	T	124Trimetben	0.5000	0.5202	-4.04	73	0.00
94	T	sbutylbenzen	0.5000	0.5163	-3.26	71	0.00
95	T	13Diclorbenz	0.5000	0.5083	-1.66	72	0.00
96	T	pIsopropylto	0.5000	0.5186	-3.72	71	0.00
97	T	14dichlorobe	0.5000	0.4999	0.02	73	0.00
98	T	12dichlorobe	0.5000	0.5224	-4.48	76	0.00
99	T	nButylbenzen	0.5000	0.5279	-5.58	73	0.00
100	T	12dibromo3cl	0.5000	0.4668	6.64	72	0.00
101	T	135Trichlorobenzene	0.5000	0.5391	-7.82	75	0.00
102	T	124Trichlobe	0.5000	0.5150	-3.00	74	0.00
103	T	Hexachlorobu	0.5000	0.4684	6.32	69	0.00
104	T	Naphthalene	0.5000	0.5420	-8.40	79	0.00
105	T	123Trichlben	0.5000	0.5234	-4.68	74	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS102519.M Tue Dec 03 08:10:29 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCVF2R.D Vial: 45
Acq On : 19 Nov 2019 15:43 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 16:04:29 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	926652	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	761752	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	405691	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	238557	0.984	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
45) SURR12DCAd4	7.23	102	60862	1.018	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102 %			
61) SURRd8Tolule	9.67	98	934068	0.990	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
83) SURR4BrFBenz	13.23	95	366749	0.940	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	140022	0.4702	mg/kg	98
3) Chloromethan	2.07	50	201451	0.4646	mg/kg	97
4) VinylChlorid	2.21	62	160270	0.4925	mg/kg	95
5) Bromomethane	2.66	94	42197	0.6651	mg/kg	97
6) Chloroethane	2.79	64	54346	0.7832	mg/kg	92
7) dichloroflmethane	3.10	67	88426	0.6742	mg/kg	96
8) Trichlorofma	3.13	101	100014	0.4288	mg/kg	98
9) Ethylether	3.67	59	115370	0.5165	mg/kg	99
10) dichlorotfluoroethan	3.67	67	148035	0.5612	mg/kg	96
11) propyleneoxide	3.73	58	387497	6.5025	mg/kg	96
12) Acrolein	3.83	56	63374	2.8703	mg/kg	100
13) 11dichlorthe	3.89	96	115037	0.5430	mg/kg	93
14) Trichlorotfluoroeth	3.91	101	204965	1.1451	mg/kg	97
15) Acetone	4.09	43	533312	4.8971	mg/kg	98
16) Iodomethane	4.09	127	62617	0.9150	mg/kg	93
17) Carbon Dislf	4.15	76	556190	1.0685	mg/kg	98
18) allylchloride	4.41	41	490073	0.9710	mg/kg	95
19) methylacetate	4.52	74	67762	0.5755	mg/kg	79
20) Methylchlorid	4.59	84	131757	0.5316	mg/kg	99
21) Acrylonitrile	4.96	53	313978	2.6872	mg/kg	99
22) t12dichlorte	4.94	96	122527	0.5535	mg/kg	96
23) tbutylalcohol	4.93	59	1165532	26.4194	mg/kg	99
24) MtBE	5.00	73	323958	0.5018	mg/kg#	15
25) Hexane	5.30	57	461014	1.0768	mg/kg	99
26) 11dichlorota	5.48	63	246259	0.5224	mg/kg	98
27) Vinylacetate	5.60	43	2675032	5.9668	mg/kg	99
28) chloroprene	5.60	53	432916	1.0674	mg/kg	99
29) Diisopether	5.63	45	473027	0.5197	mg/kg	96
30) ETBE	6.08	59	360924	0.4873	mg/kg	99
31) 22dichloropr	6.21	77	180798	0.5116	mg/kg	98
32) c12dichlorte	6.23	96	131184	0.5254	mg/kg	98
33) 2Butanone	6.28	72	180402	5.7195	mg/kg	95
34) propionitrile	6.37	54	280624	5.5229	mg/kg	99
35) Ethylacetate	6.37	88	24386	2.7343	mg/kg#	82
36) methacrylonitrile	6.53	67	133141	1.1345	mg/kg	94
37) Bromochlorma	6.52	128	60400	0.5642	mg/kg	99
38) Tetrahydofur	6.61	42	615351	5.7151	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCVF2R.D Vial: 45
Acq On : 19 Nov 2019 15:43 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 16:04:29 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	209257	0.5159 mg/kg	96
40)	111trichlota	6.84	97	187113	0.5394 mg/kg	96
42)	Cyclohexane	6.91	56	223285	0.5082 mg/kg	100
43)	Carbtetraclo	7.06	119	151858	0.5207 mg/kg	100
44)	11dicloprope	7.06	110	59744	0.5531 mg/kg	94
46)	Benzene	7.31	78	507028	0.5528 mg/kg	99
47)	12dichlorota	7.34	62	177661	0.5371 mg/kg	98
48)	TAME	7.47	73	310027	0.4906 mg/kg	98
49)	trichloroete	8.12	95	126977	0.5617 mg/kg	95
50)	methylcyclohexane	8.35	83	232610	0.5136 mg/kg	99
51)	12dicloropra	8.40	63	145597	0.5175 mg/kg	97
52)	23dicl1propene	8.46	75	160730	0.4838 mg/kg	96
53)	Dibromometha	8.55	93	78578	0.5339 mg/kg	95
54)	methylmethacrylate	8.57	69	82426	0.4981 mg/kg	95
55)	14dioxane	8.61	88	103226	27.4706 mg/kg	93
56)	Bromodiclrma	8.74	83	151011	0.5262 mg/kg	99
57)	2Nitropropane	9.03	43	536757	5.9062 mg/kg	98
58)	2CLEVE	9.14	63	494905	2.8116 mg/kg	98
59)	c13dicloproe	9.32	75	197680	0.5217 mg/kg	99
60)	4Meth2Pentan	9.52	43	1799346	5.8871 mg/kg	100
62)	Toluene	9.75	92	320676	0.5269 mg/kg	99
63)	t13Dicloprop	10.04	75	169577	0.5250 mg/kg	97
64)	ethylmethacrylate	10.17	69	336015	1.0215 mg/kg	96
65)	112Triclotha	10.27	83	95633	0.5204 mg/kg	95
66)	Tetrachlorte	10.48	166	134609	0.5345 mg/kg	100
67)	13Diclorpropa	10.49	76	190762	0.5241 mg/kg	98
69)	2Hexanone	10.62	43	1326036	6.0106 mg/kg	99
70)	Clorodibrmta	10.80	129	110844	0.5011 mg/kg	99
71)	12Dibrometha	10.96	107	123249	0.5373 mg/kg	99
72)	Chlorobenzen	11.63	112	329004	0.5093 mg/kg	98
73)	1Clhexane	11.60	91	161503	0.5003 mg/kg	98
74)	1112Tetclota	11.73	131	111517	0.5000 mg/kg	93
75)	Ethylbenzene	11.78	91	584734	0.5244 mg/kg	97
76)	m p-Xylene	11.94	106	437355	1.0378 mg/kg	98
77)	o-Xylene	12.49	106	206749	0.4788 mg/kg	89
78)	Styrene	12.51	104	349272	0.5164 mg/kg	99
79)	Bromoform	12.76	173	73833	0.4890 mg/kg	99
80)	Isopropylben	13.01	105	563628	0.5058 mg/kg	99
82)	cyclohexanone	13.14	55	171779	10.0419 mg/kg	99
84)	Bromobenzene	13.44	156	141591	0.5170 mg/kg	100
85)	1122Tetrclta	13.43	83	180716	0.5330 mg/kg	98
86)	123Triclproa	13.49	75	213625	0.5180 mg/kg	98
87)	14dichloro2butene	13.52	53	48975	0.4692 mg/kg	98
88)	n-Propylbenz	13.60	91	687673	0.5385 mg/kg	100
89)	2chlorotolue	13.72	91	390205	0.5092 mg/kg	96
90)	4chlorotolue	13.88	91	453880	0.5304 mg/kg	98
91)	135Trimebenz	13.86	105	477398	0.5086 mg/kg	100
92)	tbutylbenzen	14.32	119	398720	0.4907 mg/kg	99
93)	124Trimetben	14.40	105	479225	0.5202 mg/kg	97
94)	sbutylbenzen	14.64	105	609906	0.5163 mg/kg	100
95)	13Diclorbenz	14.80	146	261155	0.5083 mg/kg	98
96)	pIsopropylto	14.86	119	508742	0.5186 mg/kg	99
97)	14dichlorobe	14.93	146	257404	0.4999 mg/kg	98
98)	12dichlorobe	15.47	146	253584	0.5224 mg/kg	97
99)	nButylbenzen	15.46	91	473047	0.5279 mg/kg	99
100)	12dibromo3cl	16.58	157	35071	0.4668 mg/kg	96
101)	135Trichlorobenzene	16.89	180	179252	0.5391 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1819\CCVF2R.D Vial: 45
Acq On : 19 Nov 2019 15:43 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 16:04:29 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.70	180	157966	0.5150	mg/kg	99
103)	Hexachlorobu	17.94	225	72378	0.4684	mg/kg	98
104)	Naphthalene	18.02	128	447895	0.5420	mg/kg	98
105)	123Trichlben	18.32	180	147797	0.5234	mg/kg	99

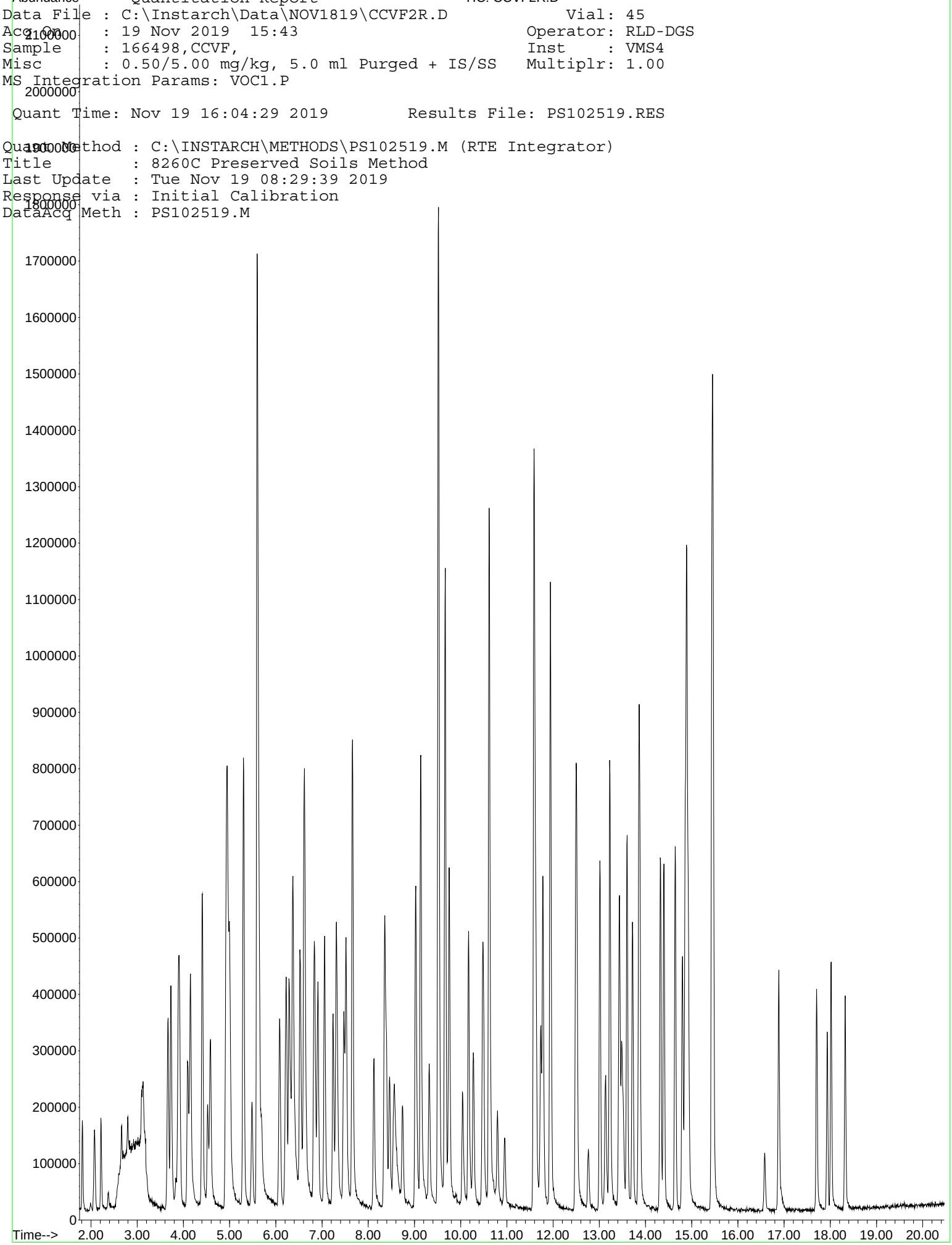
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCVF2R.D

Data File : C:\Instarch\Data\NOV1819\CCVF2R.D Vial: 45
Acq On : 19 Nov 2019 15:43 Operator: RLD-DGS
Sample : 166498,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 16:04:29 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



BFB

Data File : C:\Instarch\Data\NOV1419\BFB1.D Vial: 1
Acq On : 14 Nov 2019 13:00 Operator: RLD-DGS
Sample : 166500,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W111219.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.597 to 4.610 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	9050	PASS
75	95	30	60	55.8	27448	PASS
95	95	100	100	100.0	49179	PASS
96	95	5	9	7.9	3892	PASS
173	174	0.00	2	0.5	208	PASS
174	95	50	100	84.7	41650	PASS
175	174	5	9	6.2	2599	PASS
176	174	95	101	96.7	40264	PASS
177	176	5	9	6.4	2566	PASS

W111219.M Thu Nov 21 10:37:45 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS1.D Vial: 2
Acq On : 14 Nov 2019 13:15 Operator: RLD-DGS
Sample : 166500,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 14 13:35:35 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	105	0.00
2	PT	Dichlorodi	0.2570	0.2832	-10.19	102	0.00
3	PT	Chloromethan	0.2469	0.2365	4.21	99	0.00
4	PT	VinylChlorid	0.3134	0.3177	-1.37	100	0.00
5	PT	Bromomethane	0.1797	0.1754	2.39	96	0.00
6	PT	Chloroethane	0.2593	0.2510	3.20	103	0.00
7	T	Dichloroflmethane	0.4513	0.4454	1.31	100	0.00
8	PT	Trichlorofma	0.4049	0.4340	-7.19	102	0.00
9	T	Ethylether	0.1811	0.1932	-6.68	108	0.00
10	T	dichlorotfluoroethan	0.2650	0.2820	-6.42	103	0.00
11	T	propyleneoxide	0.0192	0.0399	-107.81#	163	0.00
12	T	Acrolein	0.0345	0.0316	8.41	88	0.00
13	PT	11dichlorthe	0.2315	0.2309	0.26	96	0.00
14	PT	Trichlorotfluoroeth	0.2132	0.2364	-10.88	103	0.00
15	PT	Acetone	0.0461	0.0408#	11.50	88	0.00
16	T	Iodomethane	0.1064	0.0984	7.52	118	0.00
17	PT	Carbon Dislf	0.5749	0.6208	-7.98	103	0.00
18	T	allylchloride	0.3263	0.3356	-2.85	103	0.00
19	PT	methylacetate	0.0958	0.0888#	7.31	96	0.00
20	PT	Methylchlorid	0.2832	0.2626	7.27	105	0.00
21	T	tbutylalcohol	0.0161	0.0083#	48.45#	51	0.00
22	T	Acrylonitrile	0.0581	0.0574	1.20	99	0.00
23	PT	t12dichlorte	0.2564	0.2563	0.04	104	0.00
24	PT	MtBE	0.6944	0.6966	-0.32	105	0.00
25	T	Hexane	0.2833	0.3476	-22.70#	110	0.00
26	PT	11dichlorota	0.4512	0.4445	1.48	101	0.00
27	T	Vinylacetate	0.3058	0.3456	-13.02	103	0.00
28	T	chloroprene	0.3345	0.3614	-8.04	101	0.00
29	T	Diisopether	0.6790	0.6751	0.57	101	0.00
30	T	ETBE	0.6690	0.6662	0.42	103	0.00
31	T	22dichloropr	0.3989	0.4521	-13.34	115	0.00
32	PT	c12dichlorte	0.2957	0.2864	3.15	99	0.00
33	PT	2Butanone	0.0256	0.0228#	10.94	89	0.00
34	T	propionitrile	0.0227	0.0188#	17.18	86	0.01
35	T	Ethylacetate	0.0099	0.0093#	6.06	104	0.00
36	T	methacrylonitrile	0.1011	0.1029	-1.78	98	0.00
37	T	Bromochlorma	0.1345	0.1220	9.29	102	0.00
38	T	Tetrahydofur	0.0571	0.0521	8.76	93	0.00
39	PT	Chloroform	0.4858	0.4632	4.65	100	0.00
40	PT	111trichlota	0.4252	0.4339	-2.05	100	0.00
41	S	SURRDibrflma	0.2561	0.2566	-0.20	105	0.00
42	PT	Cyclohexane	0.3510	0.4041	-15.13	108	0.00
43	PT	Carbtetraclo	0.3394	0.3664	-7.96	104	0.00
44	T	11dicloprope	0.1290	0.1329	-3.02	103	0.00
45	S	SURR12DCAd4	0.0707	0.0772	-9.19	118	0.00
46	PT	Benzene	1.0429	1.0673	-2.34	100	0.00
47	PT	12dichlorota	0.3663	0.3569	2.57	103	0.00
48	T	TAME	0.6856	0.6817	0.57	101	0.00

49	PT	trichloroete	0.2780	0.2716	2.30	98	0.00
50	PT	methylcyclohexane	0.4380	0.5362	-22.42#	108	0.00
51	PT	12dicloropra	0.2741	0.2684	2.08	102	0.00
52	T	23Dicl1propene	0.3958	0.3699	6.54	100	0.00
53	T	Dibromometha	0.1669	0.1666	0.18	102	0.00
54	T	methylmethacrylate	0.1711	0.1696	0.88	98	0.00
55	T	14dioxane	0.0014	0.0002#	85.71#	14#	0.00
56	PT	Bromodiclrma	0.3581	0.3471	3.07	100	0.00
57	T	2Nitropropane	0.0639	0.0639	0.00	101	0.00
58	T	2CLEVE	0.0963	0.1310	-36.03#	122	0.00
59	PT	c13dicloproe	0.4111	0.4267	-3.79	105	0.00
60	PT	4Meth2Pentan	0.1885	0.1867	0.95	95	0.00
61	S	SURRd8Tolule	0.9742	0.9638	1.07	104	0.00
62	PT	Toluene	0.7117	0.7226	-1.53	102	0.00
63	PT	t13Dicloprop	0.3680	0.3842	-4.40	106	0.00
64	T	ethylmethacrylate	0.3264	0.3413	-4.56	102	0.00
65	PT	112Triclotha	0.2049	0.1960	4.34	102	0.00
66	PT	Tetrachlorte	0.2873	0.2965	-3.20	103	0.00
67	T	13Diclorpropa	0.4320	0.4201	2.75	102	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	105	0.00
69	PT	2Hexanone	0.1771	0.1724	2.65	93	0.00
70	PT	Clorodibrmta	0.3250	0.3138	3.45	101	0.00
71	PT	12Dibrometha	0.3022	0.3096	-2.45	106	0.00
72	PT	Chlorobenzen	0.9486	0.9627	-1.49	104	0.00
73	T	1Clhexane	0.4481	0.4981	-11.16	108	0.00
74	T	1112Tetclota	0.3395	0.3358	1.09	105	0.00
75	PT	Ethylbenzene	1.5339	1.6486	-7.48	103	0.00
76	PT	m p-Xylene	0.5967	0.6446	-8.03	103	0.00
77	PT	o-Xylene	0.6055	0.6185	-2.15	103	0.00
78	PT	Styrene	0.9442	0.9940	-5.27	102	0.00
79	PT	Bromoform	0.1960	0.1819	7.19	103	0.00
80	PT	Isopropylben	1.4248	1.6100	-13.00	105	0.00
81	T	cyclohexanone	0.0064	0.0022#	65.63#	38#	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	105	0.00
83	S	SURR4BrFBenz	0.9045	0.9188	-1.58	106	0.00
84	T	Bromobenzene	0.7396	0.7217	2.42	104	0.00
85	PT	1122Tetrclta	0.7789	0.7611	2.29	105	0.00
86	T	123Triclproa	0.9635	0.9597	0.39	108	0.00
87	T	14dichloro2butene	0.1878	0.1906	-1.49	118	0.00
88	T	n-Propylbenz	2.9764	3.4220	-14.97	107	0.00
89	T	2chlorotolue	1.9136	2.0399	-6.60	104	0.00
90	T	4chlorotolue	2.2144	2.3535	-6.28	104	0.00
91	T	135Trimebenz	2.1724	2.4308	-11.89	106	0.00
92	T	tbutylbenzen	1.8395	2.0934	-13.80	107	0.00
93	T	124Trimetben	2.1869	2.3971	-9.61	104	0.00
94	T	sbutylbenzen	2.5079	3.0422	-21.30#	110	0.00
95	PT	13Diclorbenz	1.3205	1.3643	-3.32	104	0.00
96	T	pIsopropylto	2.2175	2.6372	-18.93	110	0.00
97	PT	14dichlorobe	1.3827	1.4060	-1.69	103	0.00
98	PT	12dichlorobe	1.2820	1.3388	-4.43	111	0.00
99	T	nButylbenzen	2.0247	2.4219	-19.62	112	0.00
100	PT	12dibromo3cl	0.1397	0.1440	-3.08	113	0.00
101	T	135Trichlorobenzene	0.8292	0.9123	-10.02	108	0.00
102	PT	124Trichlobe	0.7261	0.8063	-11.05	113	0.00
103	T	Hexachlorobu	0.3532	0.3927	-11.18	110	0.00
104	T	Naphthalene	1.7246	1.8839	-9.24	107	0.00
105	T	123Trichlben	0.6581	0.7122	-8.22	112	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

W111219.M Thu Nov 21 10:39:31 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS1.D Vial: 2
Acq On : 14 Nov 2019 13:15 Operator: RLD-DGS
Sample : 166500,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 14 13:35:35 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	105	0.00
2	PT	Dichlorodi	10.0000	11.0210	-10.21	102	0.00
3	PT	Chloromethan	10.0000	9.5811	4.19	99	0.00
4	PT	VinylChlorid	10.0000	10.1368	-1.37	100	0.00
5	PT	Bromomethane	10.0000	9.7645	2.36	96	0.00
6	PT	Chloroethane	10.0000	9.6784	3.22	103	0.00
7	T	Dichloroflmethane	10.0000	9.8692	1.31	100	0.00
8	PT	Trichlorofma	10.0000	10.7171	-7.17	102	0.00
9	T	Ethylether	10.0000	10.6724	-6.72	108	0.00
10	T	dichlorotfluoroethan	10.0000	10.6425	-6.42	103	0.00
11	T	propyleneoxide	100.0000	170.8603	-70.86#	163	0.00
12	T	Acrolein	50.0000	42.9698	14.06	88	0.00
13	PT	11dichlorthe	10.0000	9.9727	0.27	96	0.00
14	PT	Trichlorotfluoroeth	20.0000	22.1778	-10.89	103	0.00
15	PT	Acetone	100.0000	88.5285	11.47	88	0.00
16	T	Iodomethane	20.0000	18.5160	7.42	118	0.00
17	PT	Carbon Dislf	20.0000	21.5990	-8.00	103	0.00
18	T	allylchloride	20.0000	20.5724	-2.86	103	0.00
19	PT	methylacetate	10.0000	9.2771	7.23	96	0.00
20	PT	Methylchlorid	10.0000	9.2733	7.27	105	0.00
21	T	tbutylalcohol	500.0000	257.4024	48.52#	51	0.00
22	T	Acrylonitrile	50.0000	46.2503	7.50	99	0.00
23	PT	t12dichlorte	10.0000	9.9956	0.04	104	0.00
24	PT	MtBE	10.0000	10.0323	-0.32	105	0.00
25	T	Hexane	20.0000	24.5370	-22.68#	110	0.00
26	PT	11dichlorota	10.0000	9.8508	1.49	101	0.00
27	T	Vinylacetate	100.0000	113.0166	-13.02	103	0.00
28	T	chloroprene	20.0000	21.6068	-8.03	101	0.00
29	T	Diisopether	10.0000	9.9418	0.58	101	0.00
30	T	ETBE	10.0000	9.9582	0.42	103	0.00
31	T	22dichloropr	10.0000	11.3343	-13.34	115	0.00
32	PT	c12dichlorte	10.0000	9.6832	3.17	99	0.00
33	PT	2Butanone	100.0000	89.2485	10.75	89	0.00
34	T	propionitrile	100.0000	82.8526	17.15	86	0.01
35	T	Ethylacetate	50.0000	47.0023	6.00	104	0.00
36	T	methacrylonitrile	20.0000	20.3562	-1.78	98	0.00
37	T	Bromochlorma	10.0000	9.0665	9.34	102	0.00
38	T	Tetrahydofur	100.0000	91.2178	8.78	93	0.00
39	PT	Chloroform	10.0000	9.5349	4.65	100	0.00
40	PT	111trichlota	10.0000	10.2052	-2.05	100	0.00
41	S	SURRDibrflma	20.0000	20.0347	-0.17	105	0.00
42	PT	Cyclohexane	10.0000	11.5143	-15.14	108	0.00
43	PT	Carbtetraclo	10.0000	10.7951	-7.95	104	0.00
44	T	11dicloprope	10.0000	10.3017	-3.02	103	0.00
45	S	SURR12DCAd4	20.0000	21.8356	-9.18	118	0.00
46	PT	Benzene	10.0000	10.2337	-2.34	100	0.00
47	PT	12dichlorota	10.0000	9.7434	2.57	103	0.00
48	T	TAME	10.0000	9.9430	0.57	101	0.00

49	PT	trichloroete	10.0000	9.7676	2.32	98	0.00
50	PT	methylcyclohexane	10.0000	10.5437	-5.44	108	0.00
51	PT	12dicloropra	10.0000	9.7939	2.06	102	0.00
52	T	23Dicl1propene	10.0000	9.3459	6.54	100	0.00
53	T	Dibromometha	10.0000	9.9829	0.17	102	0.00
54	T	methylmethacrylate	10.0000	9.9095	0.91	98	0.00
55	T	14dioxane	500.0000	67.2711	86.55#	14	0.00
56	PT	Bromodiclrma	10.0000	9.6936	3.06	100	0.00
57	T	2Nitropropane	100.0000	99.9135	0.09	101	0.00
58	T	2CLEVE	50.0000	59.9755	-19.95	122	0.00
59	PT	c13dicloproe	10.0000	10.3785	-3.79	105	0.00
60	PT	4Meth2Pentan	100.0000	99.0251	0.97	95	0.00
61	S	SURRd8Tolule	20.0000	19.7867	1.07	104	0.00
62	PT	Toluene	10.0000	10.1534	-1.53	102	0.00
63	PT	t13Dicloprop	10.0000	10.4389	-4.39	106	0.00
64	T	ethylmethacrylate	20.0000	20.9189	-4.59	102	0.00
65	PT	112Triclotha	10.0000	9.5630	4.37	102	0.00
66	PT	Tetrachlorte	10.0000	10.3229	-3.23	103	0.00
67	T	13Diclorpropa	10.0000	9.7245	2.75	102	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	105	0.00
69	PT	2Hexanone	100.0000	97.3740	2.63	93	0.00
70	PT	Clorodibrmta	10.0000	9.6549	3.45	101	0.00
71	PT	12Dibrometha	10.0000	10.2455	-2.45	106	0.00
72	PT	Chlorobenzen	10.0000	10.1491	-1.49	104	0.00
73	T	1Clhexane	10.0000	11.1172	-11.17	108	0.00
74	T	1112Tetclota	10.0000	9.8908	1.09	105	0.00
75	PT	Ethylbenzene	10.0000	10.7479	-7.48	103	0.00
76	PT	m p-Xylene	20.0000	21.6078	-8.04	103	0.00
77	PT	o-Xylene	10.0000	10.2141	-2.14	103	0.00
78	PT	Styrene	10.0000	10.5268	-5.27	102	0.00
79	PT	Bromoform	10.0000	9.2804	7.20	103	0.00
80	PT	Isopropylben	10.0000	11.2998	-13.00	105	0.00
81	T	cyclohexanone	200.0000	70.6342	64.68#	38	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	105	0.00
83	S	SURR4BrFBenz	20.0000	20.3169	-1.58	106	0.00
84	T	Bromobenzene	10.0000	9.7582	2.42	104	0.00
85	PT	1122Tetrclta	10.0000	9.7722	2.28	105	0.00
86	T	123Triclproa	10.0000	9.9607	0.39	108	0.00
87	T	14dichloro2butene	10.0000	10.1500	-1.50	118	0.00
88	T	n-Propylbenz	10.0000	11.4972	-14.97	107	0.00
89	T	2chlorotolue	10.0000	10.6598	-6.60	104	0.00
90	T	4chlorotolue	10.0000	10.6284	-6.28	104	0.00
91	T	135Trimebenz	10.0000	11.1897	-11.90	106	0.00
92	T	tbutylbenzen	10.0000	11.3803	-13.80	107	0.00
93	T	124Trimetben	10.0000	10.9612	-9.61	104	0.00
94	T	sbutylbenzen	10.0000	12.1308	-21.31#	110	0.00
95	PT	13Diclorbenz	10.0000	10.3314	-3.31	104	0.00
96	T	pIsopropylto	10.0000	11.8927	-18.93	110	0.00
97	PT	14dichlorobe	10.0000	10.1682	-1.68	103	0.00
98	PT	12dichlorobe	10.0000	10.4432	-4.43	111	0.00
99	T	nButylbenzen	10.0000	11.9618	-19.62	112	0.00
100	PT	12dibromo3cl	10.0000	10.3047	-3.05	113	0.00
101	T	135Trichlorobenzene	10.0000	11.0019	-10.02	108	0.00
102	PT	124Trichlobe	10.0000	11.1035	-11.04	113	0.00
103	T	Hexachlorobu	10.0000	11.1187	-11.19	110	0.00
104	T	Naphthalene	10.0000	10.9236	-9.24	107	0.00
105	T	123Trichlben	10.0000	10.8229	-8.23	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W111219.M Thu Nov 21 10:40:00 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS1.D Vial: 2
Acq On : 14 Nov 2019 13:15 Operator: RLD-DGS
Sample : 166500,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 14 13:35:35 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1136498	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	875878	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	483248	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	291592	20.035	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100 %			
45) SURR12DCAd4	7.20	102	87681	21.836	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 109 %			
61) SURRd8Tolule	9.63	98	1095347	19.787	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.17	95	444027	20.317	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	160925	11.0210	ug/L	97
3) Chloromethan	2.09	50	134411	9.5811	ug/L	97
4) VinylChlorid	2.24	62	180536	10.1368	ug/L	99
5) Bromomethane	2.71	94	99689	9.7645	ug/L	95
6) Chloroethane	2.86	64	142603	9.6784	ug/L	96
7) Dichloroflmethane	3.16	67	253088	9.8692	ug/L	97
8) Trichlorofma	3.23	101	246593	10.7171	ug/L	100
9) Ethylether	3.67	59	109807	10.6724	ug/L	92
10) dichlorotfluoroethan	3.68	67	160247	10.6425	ug/L	95
11) propyleneoxide	3.73	58	226497	170.8603	ug/L	93
12) Acrolein	3.81	56	89721	42.9698	ug/L	95
13) 11dichlorthe	3.95	96	131217	9.9727	ug/L	94
14) Trichlorotfluoroeth	3.99	101	268682	22.1778	ug/L	99
15) Acetone	4.03	43	232063	88.5285	ug/L	98
16) Iodomethane	4.13	142	111778	18.5160	ug/L	93
17) Carbon Dislf	4.21	76	705563	21.5990	ug/L	100
18) allylchloride	4.43	41	381438	20.5724	ug/L	99
19) methylacetate	4.50	74	50484	9.2771	ug/L	92
20) Methylchlorid	4.59	84	149233	9.2733	ug/L	94
21) tbutylalcohol	4.79	59	234862	257.4024	ug/L	94
22) Acrylonitrile	4.90	53	163067	46.2503	ug/L	97
23) t12dichlorte	4.96	96	145645	9.9956	ug/L	96
24) MtBE	4.98	73	395852	10.0323	ug/L	97
25) Hexane	5.35	57	394996	24.5370	ug/L	99
26) 11dichlorota	5.47	63	252588	9.8508	ug/L	98
27) Vinylacetate	5.57	43	1963918	113.0166	ug/L	99
28) chloroprene	5.61	53	410700	21.6068	ug/L	95
29) Diisopether	5.62	45	383602	9.9418	ug/L	98
30) ETBE	6.07	59	378594	9.9582	ug/L	97
31) 22dichloropr	6.21	77	256920	11.3343	ug/L	97
32) c12dichlorte	6.21	96	162727	9.6832	ug/L	96
33) 2Butanone	6.23	72	129782	89.2485	ug/L	99
34) propionitrile	6.28	54	106780	82.8526	ug/L	93
35) Ethylacetate	6.33	88	26453	47.0023	ug/L	95
36) methacrylonitrile	6.47	67	116917	20.3562	ug/L	98
37) Bromochlorma	6.50	128	69312	9.0665	ug/L	94
38) Tetrahydofur	6.57	42	296006	91.2178	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS1.D Vial: 2
Acq On : 14 Nov 2019 13:15 Operator: RLD-DGS
Sample : 166500,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 14 13:35:35 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.59	83	263241	9.5349	ug/L		99
40)	111trichlota	6.84	97	246556	10.2052	ug/L		95
42)	Cyclohexane	6.92	56	229653	11.5143	ug/L		97
43)	Carbtetraclo	7.05	119	208212	10.7951	ug/L		97
44)	11dicloprope	7.04	110	75502	10.3017	ug/L		98
46)	Benzene	7.29	78	606493	10.2337	ug/L		98
47)	12dichlorota	7.30	62	202820	9.7434	ug/L		100
48)	TAME	7.46	73	387400	9.9430	ug/L		97
49)	trichloroete	8.10	95	154329	9.7676	ug/L		96
50)	methylcyclohexane	8.36	83	304695	10.5437	ug/L		98
51)	12dicloropra	8.35	63	152536	9.7939	ug/L		100
52)	23Dicl1propene	8.42	75	210214	9.3459	ug/L		96
53)	Dibromometha	8.50	93	94670	9.9829	ug/L		96
54)	methylmethacrylate	8.53	69	96359	9.9095	ug/L		98
55)	14dioxane	8.55	88	5275	67.2711	ug/L	#	37
56)	Bromodiclrma	8.70	83	197253	9.6936	ug/L		98
57)	2Nitropropane	8.96	43	363032	99.9135	ug/L		99
58)	2CLEVE	9.09	63	372335	59.9755	ug/L		97
59)	c13dicloproe	9.28	75	242451	10.3785	ug/L		97
60)	4Meth2Pentan	9.47	43	1060941	99.0251	ug/L		99
62)	Toluene	9.72	92	410629	10.1534	ug/L		98
63)	t13Dicloprop	9.99	75	218299	10.4389	ug/L		98
64)	ethylmethacrylate	10.13	69	387938	20.9189	ug/L		99
65)	112Triclotha	10.22	83	111359	9.5630	ug/L		95
66)	Tetrachlorte	10.45	166	168512	10.3229	ug/L		97
67)	13Diclorpropa	10.44	76	238724	9.7245	ug/L		98
69)	2Hexanone	10.56	43	755058	97.3740	ug/L		98
70)	Clorodibrmta	10.74	129	137406	9.6549	ug/L		95
71)	12Dibrometha	10.89	107	135581	10.2455	ug/L		98
72)	Chlorobenzen	11.58	112	421603	10.1491	ug/L		99
73)	1Clhexane	11.56	91	218152	11.1172	ug/L		98
74)	1112Tetclota	11.68	131	147071	9.8908	ug/L		98
75)	Ethylbenzene	11.74	91	721977	10.7479	ug/L		99
76)	m p-Xylene	11.90	106	564631	21.6078	ug/L		100
77)	o-Xylene	12.45	106	270853	10.2141	ug/L		100
78)	Styrene	12.46	104	435296	10.5268	ug/L		99
79)	Bromoform	12.69	173	79662	9.2804	ug/L		96
80)	Isopropylben	12.97	105	705060	11.2998	ug/L		100
81)	cyclohexanone	13.07	55	19683	70.6342	ug/L		95
84)	Bromobenzene	13.38	156	174383	9.7582	ug/L		99
85)	1122Tetrclta	13.35	83	183909	9.7722	ug/L		92
86)	123Triclproa	13.41	75	231891	9.9607	ug/L		97
87)	14dichloro2butene	13.45	53	46062	10.1500	ug/L		92
88)	n-Propylbenz	13.56	91	826836	11.4972	ug/L		99
89)	2chlorotolue	13.67	91	492886	10.6598	ug/L		98
90)	4chlorotolue	13.82	91	568669	10.6284	ug/L		99
91)	135Trimebenz	13.81	105	587345	11.1897	ug/L		98
92)	tbutylbenzen	14.28	119	505812	11.3803	ug/L		98
93)	124Trimetben	14.35	105	579196	10.9612	ug/L		99
94)	sbutylbenzen	14.60	105	735077	12.1308	ug/L		99
95)	13Diclorbenz	14.74	146	329648	10.3314	ug/L		99
96)	pIsopropylto	14.81	119	637205	11.8927	ug/L		100
97)	14dichlorobe	14.87	146	339724	10.1682	ug/L		93
98)	12dichlorobe	15.40	146	323494	10.4432	ug/L		98
99)	nButylbenzen	15.41	91	585181	11.9618	ug/L		99
100)	12dibromo3cl	16.50	157	34789	10.3047	ug/L		83
101)	135Trichlorobenzene	16.83	180	220437	11.0019	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS1.D Vial: 2
Acq On : 14 Nov 2019 13:15 Operator: RLD-DGS
Sample : 166500,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 14 13:35:35 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

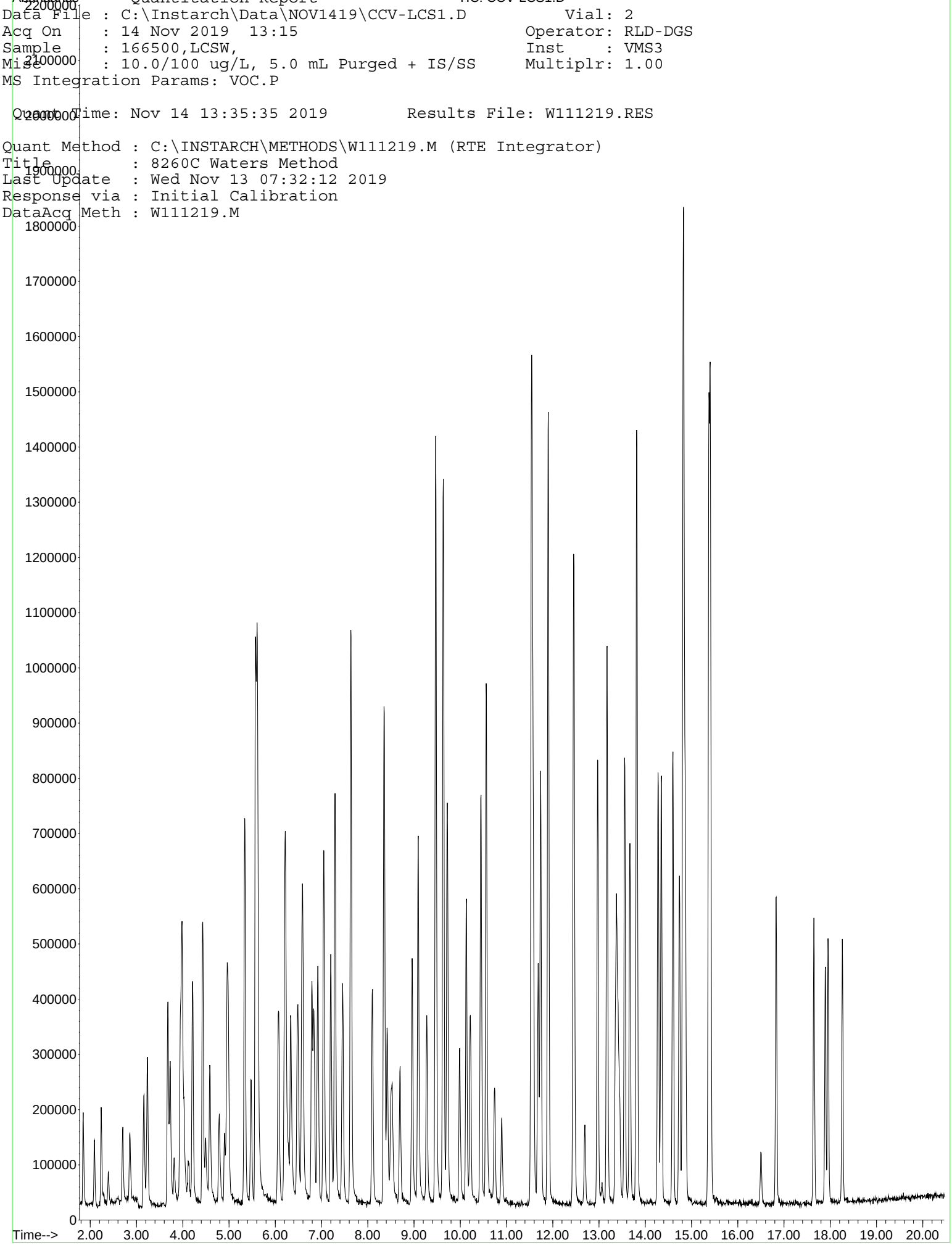
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	194812	11.1035	ug/L	99
103) Hexachlorobu	17.90	225	94894	11.1187	ug/L	100
104) Naphthalene	17.95	128	455191	10.9236	ug/L	99
105) 123Trichlben	18.26	180	172088	10.8229	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\Instarch\Data\NOV1419\CCV-LCS1.D Vial: 2
Acq On : 14 Nov 2019 13:15 Operator: RLD-DGS
Sample : 166500,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 14 13:35:35 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1419\CCVF-LCSD1.D Vial: 24
Acq On : 15 Nov 2019 00:13 Operator: RLD-DGS
Sample : 166500,LCSDW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 15 00:33:47 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	104	0.00
2	PT	Dichlorodi	0.2570	0.2822	-9.81	101	0.00
3	PT	Chloromethan	0.2469	0.2463	0.24	103	0.00
4	PT	VinylChlorid	0.3134	0.3337	-6.48	104	0.00
5	PT	Bromomethane	0.1797	0.1921	-6.90	105	0.00
6	PT	Chloroethane	0.2593	0.2583	0.39	105	0.00
7	T	Dichloroflmethane	0.4513	0.4346	3.70	97	0.00
8	PT	Trichlorofma	0.4049	0.4290	-5.95	100	0.00
9	T	Ethylether	0.1811	0.1810	0.06	100	0.00
10	T	dichlorotfluoroethan	0.2650	0.2848	-7.47	103	0.00
11	T	propyleneoxide	0.0192	0.0411	-114.06#	167	0.00
12	T	Acrolein	0.0345	0.0370	-7.25	103	0.00
13	PT	11dichlorthe	0.2315	0.2408	-4.02	99	0.00
14	PT	Trichlorotfluoroeth	0.2132	0.2434	-14.17	106	0.00
15	PT	Acetone	0.0461	0.0575#	-24.73	124	0.00
16	T	Iodomethane	0.1064	0.1267	-19.08	151	0.00
17	PT	Carbon Dislf	0.5749	0.6257	-8.84	103	0.00
18	T	allylchloride	0.3263	0.3249	0.43	99	0.00
19	PT	methylacetate	0.0958	0.1087	-13.47	116	0.00
20	PT	Methylchlorid	0.2832	0.2664	5.93	106	0.00
21	T	tbutylalcohol	0.0161	0.0193#	-19.88	119	0.00
22	T	Acrylonitrile	0.0581	0.0651	-12.05	112	0.00
23	PT	t12dichlorte	0.2564	0.2602	-1.48	105	0.00
24	PT	MtBE	0.6944	0.7034	-1.30	105	0.00
25	T	Hexane	0.2833	0.3244	-14.51	102	0.00
26	PT	11dichlorota	0.4512	0.4452	1.33	100	0.00
27	T	Vinylacetate	0.3058	0.3388	-10.79	101	0.00
28	T	chloroprene	0.3345	0.3567	-6.64	99	0.00
29	T	Diisopether	0.6790	0.6954	-2.42	104	0.00
30	T	ETBE	0.6690	0.6779	-1.33	104	0.00
31	T	22dichloropr	0.3989	0.3416	14.36	87	0.00
32	PT	c12dichlorte	0.2957	0.2895	2.10	100	0.00
33	PT	2Butanone	0.0256	0.0299#	-16.80	116	0.00
34	T	propionitrile	0.0227	0.0259#	-14.10	118	0.00
35	T	Ethylacetate	0.0099	0.0105#	-6.06	117	0.00
36	T	methacrylonitrile	0.1011	0.1127	-11.47	107	0.00
37	T	Bromochlorma	0.1345	0.1284	4.54	107	0.00
38	T	Tetrahydofur	0.0571	0.0635	-11.21	112	0.00
39	PT	Chloroform	0.4858	0.4706	3.13	101	0.00
40	PT	111trichlota	0.4252	0.4503	-5.90	103	0.00
41	S	SURRDibrflma	0.2561	0.2527	1.33	103	0.00
42	PT	Cyclohexane	0.3510	0.3900	-11.11	103	0.00
43	PT	Carbtetraclo	0.3394	0.3645	-7.40	103	0.00
44	T	11dicloprope	0.1290	0.1319	-2.25	101	0.00
45	S	SURR12DCAd4	0.0707	0.0750	-6.08	114	0.00
46	PT	Benzene	1.0429	1.0732	-2.91	100	0.00
47	PT	12dichlorota	0.3663	0.3667	-0.11	105	0.00
48	T	TAME	0.6856	0.7041	-2.70	103	0.00

49	PT	trichloroete	0.2780	0.2822	-1.51	101	0.00
50	PT	methylcyclohexane	0.4380	0.5103	-16.51	102	0.00
51	PT	12dicloropra	0.2741	0.2571	6.20	97	0.00
52	T	23Dicl1propene	0.3958	0.3704	6.42	100	0.00
53	T	Dibromometha	0.1669	0.1629	2.40	99	0.00
54	T	methylmethacrylate	0.1711	0.1785	-4.32	102	0.00
55	T	14dioxane	0.0014	0.0014#	0.00	106	0.00
56	PT	Bromodiclrma	0.3581	0.3525	1.56	101	0.00
57	T	2Nitropropane	0.0639	0.0752	-17.68	118	0.00
58	T	2CLEVE	0.0963	0.1253	-30.11	116	0.00
59	PT	c13dicloproe	0.4111	0.4166	-1.34	102	0.00
60	PT	4Meth2Pentan	0.1885	0.2141	-13.58	108	0.00
61	S	SURRd8Tolule	0.9742	0.9627	1.18	103	0.00
62	PT	Toluene	0.7117	0.7432	-4.43	104	0.00
63	PT	t13Dicloprop	0.3680	0.3664	0.43	100	0.00
64	T	ethylmethacrylate	0.3264	0.3525	-8.00	104	0.00
65	PT	112Triclotha	0.2049	0.1996	2.59	103	0.00
66	PT	Tetrachlorte	0.2873	0.2954	-2.82	102	0.00
67	T	13Diclorpropa	0.4320	0.4362	-0.97	106	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	102	0.00
69	PT	2Hexanone	0.1771	0.2130	-20.27	111	0.00
70	PT	Clorodibrmta	0.3250	0.3265	-0.46	102	0.00
71	PT	12Dibrometha	0.3022	0.3170	-4.90	105	0.00
72	PT	Chlorobenzen	0.9486	0.9757	-2.86	102	0.00
73	T	1Clhexane	0.4481	0.4885	-9.02	103	0.00
74	T	1112Tetclota	0.3395	0.3351	1.30	102	0.00
75	PT	Ethylbenzene	1.5339	1.7250	-12.46	105	0.00
76	PT	m p-Xylene	0.5967	0.6425	-7.68	100	0.00
77	PT	o-Xylene	0.6055	0.6357	-4.99	102	0.00
78	PT	Styrene	0.9442	1.0392	-10.06	104	0.00
79	PT	Bromoform	0.1960	0.1852	5.51	101	0.00
80	PT	Isopropylben	1.4248	1.6254	-14.08	103	0.00
81	T	cyclohexanone	0.0064	0.0074#	-15.63	121	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	104	0.00
83	S	SURR4BrFBenz	0.9045	0.8912	1.47	102	0.00
84	T	Bromobenzene	0.7396	0.7452	-0.76	107	0.00
85	PT	1122Tetrclta	0.7789	0.8133	-4.42	111	0.00
86	T	123Triclproa	0.9635	0.9838	-2.11	110	0.00
87	T	14dichloro2butene	0.1878	0.1889	-0.59	116	0.00
88	T	n-Propylbenz	2.9764	3.4238	-15.03	106	0.00
89	T	2chlorotolue	1.9136	2.0593	-7.61	104	0.00
90	T	4chlorotolue	2.2144	2.3629	-6.71	103	0.00
91	T	135Trimebenz	2.1724	2.4327	-11.98	105	0.00
92	T	tbutylbenzen	1.8395	2.0555	-11.74	104	0.00
93	T	124Trimetben	2.1869	2.4189	-10.61	104	0.00
94	T	sbutylbenzen	2.5079	3.0075	-19.92	108	0.00
95	PT	13Diclorbenz	1.3205	1.3779	-4.35	104	0.00
96	T	pIsopropylto	2.2175	2.5343	-14.29	104	0.00
97	PT	14dichlorobe	1.3827	1.4147	-2.31	102	0.00
98	PT	12dichlorobe	1.2820	1.3048	-1.78	107	0.00
99	T	nButylbenzen	2.0247	2.3728	-17.19	109	0.00
100	PT	12dibromo3cl	0.1397	0.1384	0.93	108	0.00
101	T	135Trichlorobenzene	0.8292	0.8961	-8.07	105	0.00
102	PT	124Trichlobe	0.7261	0.7836	-7.92	109	0.00
103	T	Hexachlorobu	0.3532	0.3891	-10.16	108	0.00
104	T	Naphthalene	1.7246	2.1156	-22.67	120	0.00
105	T	123Trichlben	0.6581	0.7221	-9.72	112	0.00

(#) = Out of Range SPCC's out = 2 CCC's out = 0

W111219.M Thu Nov 21 10:41:42 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1419\CCVF-LCSD1.D Vial: 24
Acq On : 15 Nov 2019 00:13 Operator: RLD-DGS
Sample : 166500,LCSDW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 15 00:33:47 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	104	0.00
2	PT	Dichlorodi	10.0000	10.9840	-9.84	101	0.00
3	PT	Chloromethan	10.0000	9.9770	0.23	103	0.00
4	PT	VinylChlorid	10.0000	10.6485	-6.49	104	0.00
5	PT	Bromomethane	10.0000	10.6946	-6.95	105	0.00
6	PT	Chloroethane	10.0000	9.9599	0.40	105	0.00
7	T	Dichloroflmethane	10.0000	9.6300	3.70	97	0.00
8	PT	Trichlorofma	10.0000	10.5949	-5.95	100	0.00
9	T	Ethylether	10.0000	9.9945	0.05	100	0.00
10	T	dichlorotfluoroethan	10.0000	10.7481	-7.48	103	0.00
11	T	propyleneoxide	100.0000	176.0842	-76.08#	167	0.00
12	T	Acrolein	50.0000	49.7784	0.44	103	0.00
13	PT	11dichlorthe	10.0000	10.3981	-3.98	99	0.00
14	PT	Trichlorotfluoroeth	20.0000	22.8352	-14.18	106	0.00
15	PT	Acetone	100.0000	124.5644	-24.56	124	0.00
16	T	Iodomethane	20.0000	22.0635	-10.32	151	0.00
17	PT	Carbon Dislf	20.0000	21.7684	-8.84	103	0.00
18	T	allylchloride	20.0000	19.9156	0.42	99	0.00
19	PT	methylacetate	10.0000	11.3538	-13.54	116	0.00
20	PT	Methylchlorid	10.0000	9.4065	5.94	106	0.00
21	T	tbutylalcohol	500.0000	602.3494	-20.47	119	0.00
22	T	Acrylonitrile	50.0000	51.8421	-3.68	112	0.00
23	PT	t12dichlorte	10.0000	10.1458	-1.46	105	0.00
24	PT	MtBE	10.0000	10.1306	-1.31	105	0.00
25	T	Hexane	20.0000	22.9054	-14.53	102	0.00
26	PT	11dichlorota	10.0000	9.8671	1.33	100	0.00
27	T	Vinylacetate	100.0000	110.7795	-10.78	101	0.00
28	T	chloroprene	20.0000	21.3272	-6.64	99	0.00
29	T	Diisopether	10.0000	10.2416	-2.42	104	0.00
30	T	ETBE	10.0000	10.1322	-1.32	104	0.00
31	T	22dichloropr	10.0000	8.5631	14.37	87	0.00
32	PT	c12dichlorte	10.0000	9.7907	2.09	100	0.00
33	PT	2Butanone	100.0000	116.7223	-16.72	116	0.00
34	T	propionitrile	100.0000	114.2022	-14.20	118	0.00
35	T	Ethylacetate	50.0000	53.1334	-6.27	117	0.00
36	T	methacrylonitrile	20.0000	22.3078	-11.54	107	0.00
37	T	Bromochlorma	10.0000	9.5438	4.56	107	0.00
38	T	Tetrahydofur	100.0000	111.2568	-11.26	112	0.00
39	PT	Chloroform	10.0000	9.6856	3.14	101	0.00
40	PT	111trichlota	10.0000	10.5902	-5.90	103	0.00
41	S	SURRDibrflma	20.0000	19.7318	1.34	103	0.00
42	PT	Cyclohexane	10.0000	11.1107	-11.11	103	0.00
43	PT	Carbtetraclo	10.0000	10.7395	-7.39	103	0.00
44	T	11dicloprope	10.0000	10.2295	-2.29	101	0.00
45	S	SURR12DCAd4	20.0000	21.2390	-6.20	114	0.00
46	PT	Benzene	10.0000	10.2902	-2.90	100	0.00
47	PT	12dichlorota	10.0000	10.0117	-0.12	105	0.00
48	T	TAME	10.0000	10.2690	-2.69	103	0.00

49	PT	trichloroete	10.0000	10.1496	-1.50	101	0.00
50	PT	methylcyclohexane	10.0000	10.0525	-0.53	102	0.00
51	PT	12dicloropra	10.0000	9.3793	6.21	97	0.00
52	T	23Dicl1propene	10.0000	9.3575	6.42	100	0.00
53	T	Dibromometha	10.0000	9.7632	2.37	99	0.00
54	T	methylmethacrylate	10.0000	10.4302	-4.30	102	0.00
55	T	14dioxane	500.0000	499.7552	0.05	106	0.00
56	PT	Bromodiclrma	10.0000	9.8440	1.56	101	0.00
57	T	2Nitropropane	100.0000	117.6443	-17.64	118	0.00
58	T	2CLEVE	50.0000	57.4786	-14.96	116	0.00
59	PT	c13dicloproe	10.0000	10.1326	-1.33	102	0.00
60	PT	4Meth2Pentan	100.0000	113.5750	-13.58	108	0.00
61	S	SURRd8Tolule	20.0000	19.7642	1.18	103	0.00
62	PT	Toluene	10.0000	10.4432	-4.43	104	0.00
63	PT	t13Dicloprop	10.0000	9.9571	0.43	100	0.00
64	T	ethylmethacrylate	20.0000	21.6028	-8.01	104	0.00
65	PT	112Triclotha	10.0000	9.7399	2.60	103	0.00
66	PT	Tetrachlorte	10.0000	10.2816	-2.82	102	0.00
67	T	13Diclorpropa	10.0000	10.0974	-0.97	106	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	102	0.00
69	PT	2Hexanone	100.0000	120.2961	-20.30	111	0.00
70	PT	Clorodibrmta	10.0000	10.0470	-0.47	102	0.00
71	PT	12Dibrometha	10.0000	10.4903	-4.90	105	0.00
72	PT	Chlorobenzen	10.0000	10.2867	-2.87	102	0.00
73	T	1Clhexane	10.0000	10.9030	-9.03	103	0.00
74	T	1112Tetclota	10.0000	9.8705	1.30	102	0.00
75	PT	Ethylbenzene	10.0000	11.2464	-12.46	105	0.00
76	PT	m p-Xylene	20.0000	21.5371	-7.69	100	0.00
77	PT	o-Xylene	10.0000	10.4979	-4.98	102	0.00
78	PT	Styrene	10.0000	11.0064	-10.06	104	0.00
79	PT	Bromoform	10.0000	9.4485	5.52	101	0.00
80	PT	Isopropylben	10.0000	11.4080	-14.08	103	0.00
81	T	cyclohexanone	200.0000	232.4413	-16.22	121	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	104	0.00
83	S	SURR4BrFBenz	20.0000	19.7064	1.47	102	0.00
84	T	Bromobenzene	10.0000	10.0764	-0.76	107	0.00
85	PT	1122Tetrclta	10.0000	10.4413	-4.41	111	0.00
86	T	123Triclproa	10.0000	10.2106	-2.11	110	0.00
87	T	14dichloro2butene	10.0000	10.0596	-0.60	116	0.00
88	T	n-Propylbenz	10.0000	11.5033	-15.03	106	0.00
89	T	2chlorotolue	10.0000	10.7612	-7.61	104	0.00
90	T	4chlorotolue	10.0000	10.6708	-6.71	103	0.00
91	T	135Trimebenz	10.0000	11.1984	-11.98	105	0.00
92	T	tbutylbenzen	10.0000	11.1743	-11.74	104	0.00
93	T	124Trimetben	10.0000	11.0609	-10.61	104	0.00
94	T	sbutylbenzen	10.0000	11.9924	-19.92	108	0.00
95	PT	13Diclorbenz	10.0000	10.4345	-4.34	104	0.00
96	T	pIsopropylto	10.0000	11.4287	-14.29	104	0.00
97	PT	14dichlorobe	10.0000	10.2309	-2.31	102	0.00
98	PT	12dichlorobe	10.0000	10.1778	-1.78	107	0.00
99	T	nButylbenzen	10.0000	11.7193	-17.19	109	0.00
100	PT	12dibromo3cl	10.0000	9.9084	0.92	108	0.00
101	T	135Trichlorobenzene	10.0000	10.8070	-8.07	105	0.00
102	PT	124Trichlobe	10.0000	10.7919	-7.92	109	0.00
103	T	Hexachlorobu	10.0000	11.0144	-10.14	108	0.00
104	T	Naphthalene	10.0000	12.2674	-22.67	120	0.00
105	T	123Trichlben	10.0000	10.9733	-9.73	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W111219.M Thu Nov 21 10:42:56 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCVF-LCSD1.D Vial: 24
Acq On : 15 Nov 2019 00:13 Operator: RLD-DGS
Sample : 166500,LCSDW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 00:33:47 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1128875	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	850600	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	478467	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	285257	19.732	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.21	102	84713	21.239	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 106 %			
61) SURRd8Tolule	9.63	98	1086765	19.764	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.18	95	426424	19.706	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	159309	10.9840	ug/L	97
3) Chloromethan	2.09	50	139026	9.9770	ug/L	98
4) VinylChlorid	2.24	62	188378	10.6485	ug/L	95
5) Bromomethane	2.70	94	108453	10.6946	ug/L	92
6) Chloroethane	2.85	64	145767	9.9599	ug/L	97
7) Dichloroflmethane	3.16	67	245299	9.6300	ug/L	99
8) Trichlorofma	3.23	101	242146	10.5949	ug/L	100
9) Ethylether	3.67	59	102142	9.9945	ug/L	99
10) dichlorotfluoroethan	3.68	67	160751	10.7481	ug/L	99
11) propyleneoxide	3.73	58	231907	176.0842	ug/L	93
12) Acrolein	3.81	56	104515	49.7784	ug/L	93
13) 11dichlorthe	3.95	96	135896	10.3981	ug/L	99
14) Trichlorotfluoroeth	3.98	101	274790	22.8352	ug/L	96
15) Acetone	4.03	43	324335	124.5644	ug/L	94
16) Iodomethane	4.12	142	143037	22.0635	ug/L	98
17) Carbon Dislf	4.21	76	706327	21.7684	ug/L	100
18) allylchloride	4.43	41	366783	19.9156	ug/L	99
19) methylacetate	4.50	74	61370	11.3538	ug/L	97
20) Methylchlorid	4.59	84	150360	9.4065	ug/L	91
21) tbutylalcohol	4.79	59	545916	602.3494	ug/L	99
22) Acrylonitrile	4.90	53	183594	51.8421	ug/L	99
23) t12dichlorte	4.96	96	146841	10.1458	ug/L	97
24) MtBE	4.99	73	397051	10.1306	ug/L	96
25) Hexane	5.34	57	366257	22.9054	ug/L	99
26) 11dichlorota	5.48	63	251310	9.8671	ug/L	99
27) Vinylacetate	5.57	43	1912131	110.7795	ug/L	99
28) chloroprene	5.61	53	402666	21.3272	ug/L	97
29) Diisopether	5.62	45	392520	10.2416	ug/L	97
30) ETBE	6.08	59	382623	10.1322	ug/L	100
31) 22dichloropr	6.20	77	192803	8.5631	ug/L	99
32) c12dichlorte	6.22	96	163430	9.7907	ug/L	97
33) 2Butanone	6.23	72	168595	116.7223	ug/L	99
34) propionitrile	6.28	54	146196	114.2022	ug/L	97
35) Ethylacetate	6.34	88	29703	53.1334	ug/L	97
36) methacrylonitrile	6.47	67	127267	22.3078	ug/L	93
37) Bromochlorma	6.50	128	72471	9.5438	ug/L	91
38) Tetrahydofur	6.57	42	358612	111.2568	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCVF-LCSD1.D Vial: 24
Acq On : 15 Nov 2019 00:13 Operator: RLD-DGS
Sample : 166500,LCSDW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 00:33:47 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.60	83	265609	9.6856 ug/L	99
40)	111trichlota	6.84	97	254141	10.5902 ug/L	99
42)	Cyclohexane	6.92	56	220117	11.1107 ug/L	98
43)	Carbtetraclo	7.05	119	205750	10.7395 ug/L	98
44)	11dicloprope	7.05	110	74470	10.2295 ug/L	99
46)	Benzene	7.29	78	605746	10.2902 ug/L	99
47)	12dichlorota	7.30	62	207006	10.0117 ug/L	99
48)	TAME	7.46	73	397417	10.2690 ug/L	99
49)	trichloroete	8.10	95	159290	10.1496 ug/L	98
50)	methylcyclohexane	8.35	83	288024	10.0525 ug/L	99
51)	12dicloropra	8.36	63	145100	9.3793 ug/L	98
52)	23Dicl1propene	8.42	75	209063	9.3575 ug/L	98
53)	Dibromometha	8.50	93	91965	9.7632 ug/L	91
54)	methylmethacrylate	8.53	69	100742	10.4302 ug/L	99
55)	14dioxane	8.55	88	38925	499.7552 ug/L	97
56)	Bromodiclrma	8.70	83	198970	9.8440 ug/L	98
57)	2Nitropropane	8.96	43	424589	117.6443 ug/L	97
58)	2CLEVE	9.09	63	353531	57.4786 ug/L	98
59)	c13dicloproe	9.27	75	235119	10.1326 ug/L	100
60)	4Meth2Pentan	9.47	43	1208664	113.5750 ug/L	98
62)	Toluene	9.72	92	419516	10.4432 ug/L	97
63)	t13Dicloprop	9.99	75	206827	9.9571 ug/L	99
64)	ethylmethacrylate	10.13	69	397933	21.6028 ug/L	97
65)	112Triclotha	10.22	83	112659	9.7399 ug/L	96
66)	Tetrachlorte	10.46	166	166711	10.2816 ug/L	96
67)	13Diclorpropa	10.44	76	246216	10.0974 ug/L	100
69)	2Hexanone	10.56	43	905880	120.2961 ug/L	99
70)	Clorodibrmta	10.74	129	138860	10.0470 ug/L	97
71)	12Dibrometha	10.90	107	134814	10.4903 ug/L	96
72)	Chlorobenzen	11.58	112	414985	10.2867 ug/L	99
73)	1Clhexane	11.56	91	207774	10.9030 ug/L	97
74)	1112Tetclota	11.69	131	142533	9.8705 ug/L	99
75)	Ethylbenzene	11.74	91	733661	11.2464 ug/L	100
76)	m p-Xylene	11.90	106	546542	21.5371 ug/L	96
77)	o-Xylene	12.45	106	270344	10.4979 ug/L	99
78)	Styrene	12.46	104	441993	11.0064 ug/L	99
79)	Bromoform	12.70	173	78764	9.4485 ug/L	97
80)	Isopropylben	12.97	105	691263	11.4080 ug/L	98
81)	cyclohexanone	13.07	55	62903	232.4413 ug/L	98
84)	Bromobenzene	13.38	156	178287	10.0764 ug/L	97
85)	1122Tetrclta	13.36	83	194557	10.4413 ug/L	95
86)	123Triclproa	13.42	75	235357	10.2106 ug/L	98
87)	14dichloro2butene	13.45	53	45200	10.0596 ug/L	84
88)	n-Propylbenz	13.55	91	819088	11.5033 ug/L	97
89)	2chlorotolue	13.67	91	492651	10.7612 ug/L	100
90)	4chlorotolue	13.82	91	565288	10.6708 ug/L	100
91)	135Trimebenz	13.81	105	581987	11.1984 ug/L	99
92)	tbutylbenzen	14.28	119	491744	11.1743 ug/L	96
93)	124Trimetben	14.35	105	578682	11.0609 ug/L	100
94)	sbutylbenzen	14.60	105	719499	11.9924 ug/L	99
95)	13Diclorbenz	14.74	146	329642	10.4345 ug/L	99
96)	pIsopropylto	14.81	119	606285	11.4287 ug/L	97
97)	14dichlorobe	14.87	146	338436	10.2309 ug/L	96
98)	12dichlorobe	15.40	146	312154	10.1778 ug/L	97
99)	nButylbenzen	15.41	91	567647	11.7193 ug/L	99
100)	12dibromo3cl	16.50	157	33120	9.9084 ug/L	95
101)	135Trichlorobenzene	16.83	180	214389	10.8070 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

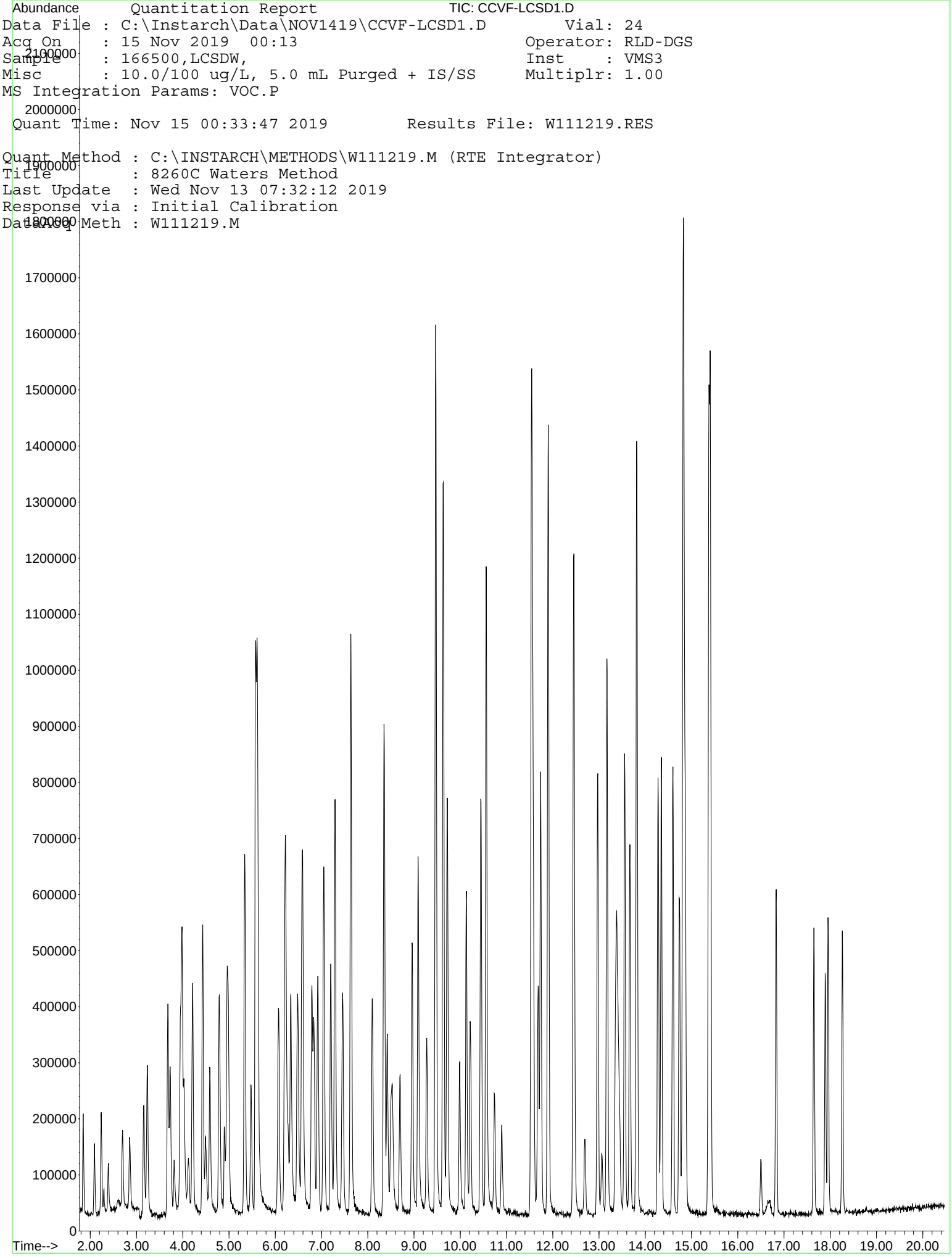
Data File : C:\Instarch\Data\NOV1419\CCVF-LCSD1.D Vial: 24
Acq On : 15 Nov 2019 00:13 Operator: RLD-DGS
Sample : 166500,LCSDW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 00:33:47 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	187471	10.7919	ug/L	97
103) Hexachlorobu	17.90	225	93074	11.0144	ug/L	99
104) Naphthalene	17.95	128	506130	12.2674	ug/L	100
105) 123Trichlben	18.27	180	172753	10.9733	ug/L	96

(#) = qualifier out of range (m) = manual integration


Abundance
Quantitation Report
TIC: CCVF-LCSD1.D
Data File : C:\Instarch\Data\NOV1419\CCVF-LCSD1.D Vial: 24
Acq On : 15 Nov 2019 00:13 Operator: RLD-DGS
Sample : 166500,LCSDW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P
Quant Time: Nov 15 00:33:47 2019 Results File: W111219.RES
Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
2100000
2000000
1900000
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time-->
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
17.00
18.00
19.00
20.00

Data File : C:\Instarch\Data\NOV1419\BFB2.D Vial: 25
Acq On : 15 Nov 2019 7:52 Operator: RLD-DGS
Sample : 166501,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W111219.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.573 to 4.591 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	20750	PASS
75	95	30	60	54.1	54082	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	8.3	8295	PASS
173	174	0.00	2	1.9	1331	PASS
174	95	50	100	71.1	71075	PASS
175	174	5	9	7.4	5230	PASS
176	174	95	101	98.7	70161	PASS
177	176	5	9	8.0	5639	PASS

W111219.M Thu Nov 21 10:38:15 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS2.D Vial: 27
Acq On : 15 Nov 2019 9:43 Operator: RLD-DGS
Sample : 166501,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 15 10:03:52 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	101	0.00
2	PT	Dichlorodi	0.2570	0.2853	-11.01	99	0.00
3	PT	Chloromethan	0.2469	0.2550	-3.28	103	0.00
4	PT	VinylChlorid	0.3134	0.3417	-9.03	103	0.00
5	PT	Bromomethane	0.1797	0.1754	2.39	93	0.00
6	PT	Chloroethane	0.2593	0.2590	0.12	102	0.00
7	T	Dichloroflmethane	0.4513	0.4588	-1.66	100	0.00
8	PT	Trichlorofma	0.4049	0.4558	-12.57	103	0.00
9	T	Ethylether	0.1811	0.1884	-4.03	101	0.00
10	T	dichlorotfluoroethan	0.2650	0.2880	-8.68	101	0.00
11	T	propyleneoxide	0.0192	0.0406	-111.46#	159	0.00
12	T	Acrolein	0.0345	0.0345	0.00	93	0.00
13	PT	11dichlorthe	0.2315	0.2523	-8.98	101	0.00
14	PT	Trichlorotfluoroeth	0.2132	0.2523	-18.34	106	0.00
15	PT	Acetone	0.0461	0.0456#	1.08	95	0.00
16	T	Iodomethane	0.1064	0.1293	-21.52#	149	0.00
17	PT	Carbon Dislf	0.5749	0.6438	-11.98	102	0.00
18	T	allylchloride	0.3263	0.3376	-3.46	99	0.00
19	PT	methylacetate	0.0958	0.0843#	12.00	87	0.00
20	PT	Methylchlorid	0.2832	0.2668	5.79	103	0.00
21	T	tbutylalcohol	0.0161	0.0126#	21.74#	75	-0.01
22	T	Acrylonitrile	0.0581	0.0583	-0.34	97	-0.01
23	PT	t12dichlorte	0.2564	0.2625	-2.38	103	0.00
24	PT	MtBE	0.6944	0.6738	2.97	97	0.00
25	T	Hexane	0.2833	0.3659	-29.16#	112	0.00
26	PT	11dichlorota	0.4512	0.4532	-0.44	99	0.00
27	T	Vinylacetate	0.3058	0.3444	-12.62	99	0.00
28	T	chloroprene	0.3345	0.3734	-11.63	100	0.00
29	T	Diisopether	0.6790	0.6958	-2.47	100	-0.01
30	T	ETBE	0.6690	0.6421	4.02	96	-0.01
31	T	22dichloropr	0.3989	0.4382	-9.85	107	0.00
32	PT	c12dichlorte	0.2957	0.3002	-1.52	100	0.00
33	PT	2Butanone	0.0256	0.0259#	-1.17	97	0.00
34	T	propionitrile	0.0227	0.0230#	-1.32	101	0.00
35	T	Ethylacetate	0.0099	0.0089#	10.10	95	0.01
36	T	methacrylonitrile	0.1011	0.1038	-2.67	95	0.00
37	T	Bromochlorma	0.1345	0.1199	10.86	96	0.00
38	T	Tetrahydofur	0.0571	0.0556	2.63	95	0.00
39	PT	Chloroform	0.4858	0.4712	3.01	98	0.00
40	PT	111trichlota	0.4252	0.4559	-7.22	101	0.00
41	S	SURRDibrflma	0.2561	0.2478	3.24	98	0.00
42	PT	Cyclohexane	0.3510	0.4000	-13.96	102	0.00
43	PT	Carbtetraclo	0.3394	0.3680	-8.43	101	0.00
44	T	11dicloprope	0.1290	0.1365	-5.81	102	0.00
45	S	SURR12DCAd4	0.0707	0.0719	-1.70	106	0.00
46	PT	Benzene	1.0429	1.0895	-4.47	98	0.00
47	PT	12dichlorota	0.3663	0.3605	1.58	100	0.00
48	T	TAME	0.6856	0.6671	2.70	95	0.00

49	PT	trichloroete	0.2780	0.2749	1.12	96	0.00
50	PT	methylcyclohexane	0.4380	0.5523	-26.10#	107	0.00
51	PT	12dicloropra	0.2741	0.2653	3.21	97	0.00
52	T	23Dicl1propene	0.3958	0.3878	2.02	101	0.00
53	T	Dibromometha	0.1669	0.1700	-1.86	100	0.00
54	T	methylmethacrylate	0.1711	0.1687	1.40	94	0.00
55	T	14dioxane	0.0014	0.0007#	50.00#	55	0.00
56	PT	Bromodiclrma	0.3581	0.3527	1.51	97	0.00
57	T	2Nitropropane	0.0639	0.0657	-2.82	100	0.00
58	T	2CLEVE	0.0963	0.1199	-24.51#	108	0.00
59	PT	c13dicloproe	0.4111	0.4257	-3.55	101	0.00
60	PT	4Meth2Pentan	0.1885	0.1886	-0.05	92	0.00
61	S	SURRd8Tolule	0.9742	0.9579	1.67	99	0.00
62	PT	Toluene	0.7117	0.7405	-4.05	100	0.00
63	PT	t13Dicloprop	0.3680	0.3736	-1.52	99	0.00
64	T	ethylmethacrylate	0.3264	0.3351	-2.67	96	0.00
65	PT	112Triclotha	0.2049	0.1974	3.66	99	0.00
66	PT	Tetrachlorte	0.2873	0.3012	-4.84	101	0.00
67	T	13Diclorpropa	0.4320	0.4402	-1.90	103	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	101	0.00
69	PT	2Hexanone	0.1771	0.1761	0.56	91	0.00
70	PT	Clorodibrmta	0.3250	0.3229	0.65	99	0.00
71	PT	12Dibrometha	0.3022	0.3249	-7.51	106	0.00
72	PT	Chlorobenzen	0.9486	0.9671	-1.95	100	0.00
73	T	1Clhexane	0.4481	0.5089	-13.57	106	0.00
74	T	1112Tetclota	0.3395	0.3336	1.74	100	0.00
75	PT	Ethylbenzene	1.5339	1.6843	-9.81	101	0.00
76	PT	m p-Xylene	0.5967	0.6533	-9.49	100	0.00
77	PT	o-Xylene	0.6055	0.6172	-1.93	98	0.00
78	PT	Styrene	0.9442	1.0173	-7.74	100	0.00
79	PT	Bromoform	0.1960	0.1888	3.67	102	0.00
80	PT	Isopropylben	1.4248	1.6220	-13.84	102	0.00
81	T	cyclohexanone	0.0064	0.0039#	39.06#	63	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	100	0.00
83	S	SURR4BrFBenz	0.9045	0.9039	0.07	99	0.00
84	T	Bromobenzene	0.7396	0.7391	0.07	102	0.00
85	PT	1122Tetrclta	0.7789	0.7600	2.43	100	0.00
86	T	123Triclproa	0.9635	0.9289	3.59	100	0.00
87	T	14dichloro2butene	0.1878	0.1737	7.51	103	0.00
88	T	n-Propylbenz	2.9764	3.5040	-17.73	104	0.00
89	T	2chlorotolue	1.9136	2.0247	-5.81	98	0.00
90	T	4chlorotolue	2.2144	2.4053	-8.62	101	0.00
91	T	135Trimebenz	2.1724	2.4658	-13.51	102	0.00
92	T	tbutylbenzen	1.8395	2.0749	-12.80	101	0.00
93	T	124Trimetben	2.1869	2.4649	-12.71	102	0.00
94	T	sbutylbenzen	2.5079	3.1169	-24.28#	107	0.00
95	PT	13Diclorbenz	1.3205	1.3831	-4.74	100	0.00
96	T	pIsopropylto	2.2175	2.6548	-19.72	105	0.00
97	PT	14dichlorobe	1.3827	1.4341	-3.72	100	0.00
98	PT	12dichlorobe	1.2820	1.3186	-2.85	104	0.00
99	T	nButylbenzen	2.0247	2.4617	-21.58#	108	0.00
100	PT	12dibromo3cl	0.1397	0.1274	8.80	96	0.01
101	T	135Trichlorobenzene	0.8292	0.9152	-10.37	103	0.00
102	PT	124Trichlobe	0.7261	0.8028	-10.56	107	0.00
103	T	Hexachlorobu	0.3532	0.4036	-14.27	108	0.00
104	T	Naphthalene	1.7246	1.8062	-4.73	98	0.00
105	T	123Trichlben	0.6581	0.6936	-5.39	104	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

W111219.M Thu Nov 21 10:40:31 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS2.D Vial: 27
Acq On : 15 Nov 2019 9:43 Operator: RLD-DGS
Sample : 166501,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 15 10:03:52 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	101	0.00
2	PT	Dichlorodi	10.0000	11.1017	-11.02	99	0.00
3	PT	Chloromethan	10.0000	10.3278	-3.28	103	0.00
4	PT	VinylChlorid	10.0000	10.9037	-9.04	103	0.00
5	PT	Bromomethane	10.0000	9.7644	2.36	93	0.00
6	PT	Chloroethane	10.0000	9.9907	0.09	102	0.00
7	T	Dichloroflmethane	10.0000	10.1669	-1.67	100	0.00
8	PT	Trichlorofma	10.0000	11.2558	-12.56	103	0.00
9	T	Ethylether	10.0000	10.4026	-4.03	101	0.00
10	T	dichlorotfluoroethan	10.0000	10.8694	-8.69	101	0.00
11	T	propyleneoxide	100.0000	173.8180	-73.82#	159	0.00
12	T	Acrolein	50.0000	46.6489	6.70	93	0.00
13	PT	11dichlorthe	10.0000	10.8978	-8.98	101	0.00
14	PT	Trichlorotfluoroeth	20.0000	23.6683	-18.34	106	0.00
15	PT	Acetone	100.0000	98.8921	1.11	95	0.00
16	T	Iodomethane	20.0000	22.3770	-11.88	149	0.00
17	PT	Carbon Dislf	20.0000	22.3996	-12.00	102	0.00
18	T	allylchloride	20.0000	20.6907	-3.45	99	0.00
19	PT	methylacetate	10.0000	8.8027	11.97	87	0.00
20	PT	Methylchlorid	10.0000	9.4219	5.78	103	0.00
21	T	tbutylalcohol	500.0000	393.0391	21.39#	75	-0.01
22	T	Acrylonitrile	50.0000	46.9235	6.15	97	-0.01
23	PT	t12dichlorte	10.0000	10.2364	-2.36	103	0.00
24	PT	MtBE	10.0000	9.7034	2.97	97	0.00
25	T	Hexane	20.0000	25.8330	-29.16#	112	0.00
26	PT	11dichlorota	10.0000	10.0434	-0.43	99	0.00
27	T	Vinylacetate	100.0000	112.6151	-12.62	99	0.00
28	T	chloroprene	20.0000	22.3255	-11.63	100	0.00
29	T	Diisopether	10.0000	10.2466	-2.47	100	-0.01
30	T	ETBE	10.0000	9.5971	4.03	96	-0.01
31	T	22dichloropr	10.0000	10.9848	-9.85	107	0.00
32	PT	c12dichlorte	10.0000	10.1505	-1.50	100	0.00
33	PT	2Butanone	100.0000	101.0714	-1.07	97	0.00
34	T	propionitrile	100.0000	101.3574	-1.36	101	0.00
35	T	Ethylacetate	50.0000	44.7968	10.41	95	0.01
36	T	methacrylonitrile	20.0000	20.5418	-2.71	95	0.00
37	T	Bromochlorma	10.0000	8.9094	10.91	96	0.00
38	T	Tetrahydofur	100.0000	97.3403	2.66	95	0.00
39	PT	Chloroform	10.0000	9.6979	3.02	98	0.00
40	PT	111trichlota	10.0000	10.7232	-7.23	101	0.00
41	S	SURRDibrflma	20.0000	19.3477	3.26	98	0.00
42	PT	Cyclohexane	10.0000	11.3973	-13.97	102	0.00
43	PT	Carbtetraclo	10.0000	10.8414	-8.41	101	0.00
44	T	11dicloprope	10.0000	10.5824	-5.82	102	0.00
45	S	SURR12DCAd4	20.0000	20.3566	-1.78	106	0.00
46	PT	Benzene	10.0000	10.4465	-4.47	98	0.00
47	PT	12dichlorota	10.0000	9.8417	1.58	100	0.00
48	T	TAME	10.0000	9.7292	2.71	95	0.00

49	PT	trichloroete	10.0000	9.8879	1.12	96	0.00
50	PT	methylcyclohexane	10.0000	10.8487	-8.49	107	0.00
51	PT	12dicloropra	10.0000	9.6797	3.20	97	0.00
52	T	23Dicl1propene	10.0000	9.7971	2.03	101	0.00
53	T	Dibromometha	10.0000	10.1878	-1.88	100	0.00
54	T	methylmethacrylate	10.0000	9.8593	1.41	94	0.00
55	T	14dioxane	500.0000	268.0639	46.39#	55	0.00
56	PT	Bromodiclrma	10.0000	9.8484	1.52	97	0.00
57	T	2Nitropropane	100.0000	102.7345	-2.73	100	0.00
58	T	2CLEVE	50.0000	55.1781	-10.36	108	0.00
59	PT	c13dicloproe	10.0000	10.3548	-3.55	101	0.00
60	PT	4Meth2Pentan	100.0000	100.0552	-0.06	92	0.00
61	S	SURRd8Tolule	20.0000	19.6665	1.67	99	0.00
62	PT	Toluene	10.0000	10.4047	-4.05	100	0.00
63	PT	t13Dicloprop	10.0000	10.1518	-1.52	99	0.00
64	T	ethylmethacrylate	20.0000	20.5392	-2.70	96	0.00
65	PT	112Triclotha	10.0000	9.6352	3.65	99	0.00
66	PT	Tetrachlorte	10.0000	10.4862	-4.86	101	0.00
67	T	13Diclorpropa	10.0000	10.1896	-1.90	103	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	101	0.00
69	PT	2Hexanone	100.0000	99.4428	0.56	91	0.00
70	PT	Clorodibrmta	10.0000	9.9357	0.64	99	0.00
71	PT	12Dibrometha	10.0000	10.7533	-7.53	106	0.00
72	PT	Chlorobenzen	10.0000	10.1954	-1.95	100	0.00
73	T	1Clhexane	10.0000	11.3580	-13.58	106	0.00
74	T	1112Tetclota	10.0000	9.8238	1.76	100	0.00
75	PT	Ethylbenzene	10.0000	10.9807	-9.81	101	0.00
76	PT	m p-Xylene	20.0000	21.8971	-9.49	100	0.00
77	PT	o-Xylene	10.0000	10.1933	-1.93	98	0.00
78	PT	Styrene	10.0000	10.7744	-7.74	100	0.00
79	PT	Bromoform	10.0000	9.6322	3.68	102	0.00
80	PT	Isopropylben	10.0000	11.3846	-13.85	102	0.00
81	T	cyclohexanone	200.0000	122.3288	38.84#	63	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	100	0.00
83	S	SURR4BrFBenz	20.0000	19.9867	0.07	99	0.00
84	T	Bromobenzene	10.0000	9.9937	0.06	102	0.00
85	PT	1122Tetrclta	10.0000	9.7581	2.42	100	0.00
86	T	123Triclproa	10.0000	9.6406	3.59	100	0.00
87	T	14dichloro2butene	10.0000	9.2491	7.51	103	0.00
88	T	n-Propylbenz	10.0000	11.7728	-17.73	104	0.00
89	T	2chlorotolue	10.0000	10.5805	-5.81	98	0.00
90	T	4chlorotolue	10.0000	10.8624	-8.62	101	0.00
91	T	135Trimebenz	10.0000	11.3508	-13.51	102	0.00
92	T	tbutylbenzen	10.0000	11.2798	-12.80	101	0.00
93	T	124Trimetben	10.0000	11.2713	-12.71	102	0.00
94	T	sbutylbenzen	10.0000	12.4286	-24.29#	107	0.00
95	PT	13Diclorbenz	10.0000	10.4735	-4.73	100	0.00
96	T	pIsopropylto	10.0000	11.9722	-19.72	105	0.00
97	PT	14dichlorobe	10.0000	10.3714	-3.71	100	0.00
98	PT	12dichlorobe	10.0000	10.2851	-2.85	104	0.00
99	T	nButylbenzen	10.0000	12.1586	-21.59#	108	0.00
100	PT	12dibromo3cl	10.0000	9.1186	8.81	96	0.01
101	T	135Trichlorobenzene	10.0000	11.0368	-10.37	103	0.00
102	PT	124Trichlobe	10.0000	11.0556	-10.56	107	0.00
103	T	Hexachlorobu	10.0000	11.4266	-14.27	108	0.00
104	T	Naphthalene	10.0000	10.4732	-4.73	98	0.00
105	T	123Trichlben	10.0000	10.5399	-5.40	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W111219.M Thu Nov 21 10:40:50 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS2.D Vial: 27
Acq On : 15 Nov 2019 9:43 Operator: RLD-DGS
Sample : 166501,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 10:03:52 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1092650	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	839950	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	460413	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	270729	19.348	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 97 %			
45) SURR12DCAd4	7.20	102	78588	20.357	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 102 %			
61) SURRd8Tolule	9.63	98	1046689	19.666	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 98 %			
83) SURR4BrFBenz	13.18	95	416170	19.987	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	155849	11.1017	ug/L	99
3) Chloromethan	2.09	50	139297	10.3278	ug/L	99
4) VinylChlorid	2.24	62	186703	10.9037	ug/L	100
5) Bromomethane	2.70	94	95842	9.7644	ug/L	97
6) Chloroethane	2.85	64	141525	9.9907	ug/L	96
7) Dichloroflmethane	3.16	67	250664	10.1669	ug/L	98
8) Trichlorofma	3.23	101	248995	11.2558	ug/L	97
9) Ethylether	3.68	59	102902	10.4026	ug/L	93
10) dichlorotfluoroethan	3.68	67	157350	10.8694	ug/L	98
11) propyleneoxide	3.73	58	221559	173.8180	ug/L	98
12) Acrolein	3.81	56	94313	46.6489	ug/L	94
13) 11dichlorthe	3.95	96	137856	10.8978	ug/L	98
14) Trichlorotfluoroeth	3.98	101	275676	23.6683	ug/L	98
15) Acetone	4.02	43	249228	98.8921	ug/L	99
16) Iodomethane	4.12	142	141275	22.3770	ug/L	94
17) Carbon Dislf	4.21	76	703485	22.3996	ug/L	99
18) allylchloride	4.43	41	368830	20.6907	ug/L	99
19) methylacetate	4.50	74	46054	8.8027	ug/L	81
20) Methylchlorid	4.58	84	145774	9.4219	ug/L	92
21) tbutylalcohol	4.78	59	344785	393.0391	ug/L	97
22) Acrylonitrile	4.90	53	159297	46.9235	ug/L	98
23) t12dichlorte	4.95	96	143399	10.2364	ug/L	95
24) MtBE	4.98	73	368103	9.7034	ug/L	96
25) Hexane	5.34	57	399814	25.8330	ug/L	99
26) 11dichlorota	5.47	63	247592	10.0434	ug/L	100
27) Vinylacetate	5.57	43	1881439	112.6151	ug/L	98
28) chloroprene	5.61	53	407988	22.3255	ug/L	98
29) Diisopether	5.61	45	380108	10.2466	ug/L	97
30) ETBE	6.06	59	350788	9.5971	ug/L	99
31) 22dichloropr	6.20	77	239392	10.9848	ug/L	98
32) c12dichlorte	6.21	96	163999	10.1505	ug/L	97
33) 2Butanone	6.23	72	141304	101.0714	ug/L	100
34) propionitrile	6.28	54	125589	101.3574	ug/L	94
35) Ethylacetate	6.34	88	24239	44.7968	ug/L	96
36) methacrylonitrile	6.47	67	113431	20.5418	ug/L	97
37) Bromochlorma	6.49	128	65483	8.9094	ug/L	97
38) Tetrahydofur	6.58	42	303687	97.3403	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS2.D Vial: 27
Acq On : 15 Nov 2019 9:43 Operator: RLD-DGS
Sample : 166501,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 10:03:52 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	257413	9.6979	ug/L	98
40)	111trichlota	6.84	97	249075	10.7232	ug/L	98
42)	Cyclohexane	6.92	56	218550	11.3973	ug/L	96
43)	Carbtetraclo	7.05	119	201038	10.8414	ug/L	100
44)	11dicloprope	7.04	110	74567	10.5824	ug/L	96
46)	Benzene	7.29	78	595219	10.4465	ug/L	99
47)	12dichlorota	7.30	62	196961	9.8417	ug/L	99
48)	TAME	7.45	73	364445	9.7292	ug/L	95
49)	trichloroete	8.10	95	150203	9.8879	ug/L	96
50)	methylcyclohexane	8.35	83	301710	10.8487	ug/L	99
51)	12dicloropra	8.35	63	144941	9.6797	ug/L	91
52)	23Dicl1propene	8.42	75	211860	9.7971	ug/L	96
53)	Dibromometha	8.49	93	92885	10.1878	ug/L	98
54)	methylmethacrylate	8.53	69	92172	9.8593	ug/L	99
55)	14dioxane	8.54	88	20209	268.0639	ug/L	89
56)	Bromodiclrma	8.70	83	192671	9.8484	ug/L	98
57)	2Nitropropane	8.96	43	358880	102.7345	ug/L	98
58)	2CLEVE	9.09	63	327606	55.1781	ug/L	98
59)	c13dicloproe	9.28	75	232565	10.3548	ug/L	97
60)	4Meth2Pentan	9.47	43	1030618	100.0552	ug/L	100
62)	Toluene	9.72	92	404557	10.4047	ug/L	99
63)	t13Dicloprop	9.99	75	204105	10.1518	ug/L	96
64)	ethylmethacrylate	10.13	69	366201	20.5392	ug/L	98
65)	112Triclotha	10.22	83	107871	9.6352	ug/L	95
66)	Tetrachlorte	10.45	166	164572	10.4862	ug/L	98
67)	13Diclorpropa	10.44	76	240492	10.1896	ug/L	98
69)	2Hexanone	10.56	43	739470	99.4428	ug/L	99
70)	Clorodibrmta	10.74	129	135602	9.9357	ug/L	99
71)	12Dibrometha	10.89	107	136464	10.7533	ug/L	96
72)	Chlorobenzen	11.58	112	406152	10.1954	ug/L	99
73)	1Clhexane	11.56	91	213735	11.3580	ug/L	98
74)	1112Tetclota	11.68	131	140083	9.8238	ug/L	97
75)	Ethylbenzene	11.74	91	707357	10.9807	ug/L	100
76)	m p-Xylene	11.90	106	548719	21.8971	ug/L	98
77)	o-Xylene	12.45	106	259215	10.1933	ug/L	96
78)	Styrene	12.46	104	427256	10.7744	ug/L	100
79)	Bromoform	12.70	173	79290	9.6322	ug/L	95
80)	Isopropylben	12.97	105	681211	11.3846	ug/L	98
81)	cyclohexanone	13.06	55	32690	122.3288	ug/L	94
84)	Bromobenzene	13.38	156	170153	9.9937	ug/L	99
85)	1122Tetrclta	13.35	83	174967	9.7581	ug/L	97
86)	123Triclproa	13.42	75	213832	9.6406	ug/L	99
87)	14dichloro2butene	13.44	53	39990	9.2491	ug/L	93
88)	n-Propylbenz	13.56	91	806649	11.7728	ug/L	100
89)	2chlorotolue	13.67	91	466101	10.5805	ug/L	99
90)	4chlorotolue	13.82	91	553724	10.8624	ug/L	99
91)	135Trimebenz	13.81	105	567646	11.3508	ug/L	99
92)	tbutylbenzen	14.28	119	477654	11.2798	ug/L	97
93)	124Trimetben	14.35	105	567440	11.2713	ug/L	97
94)	sbutylbenzen	14.60	105	717531	12.4286	ug/L	99
95)	13Diclorbenz	14.74	146	318389	10.4735	ug/L	99
96)	pIsopropylto	14.81	119	611151	11.9722	ug/L	98
97)	14dichlorobe	14.87	146	330138	10.3714	ug/L	96
98)	12dichlorobe	15.41	146	303543	10.2851	ug/L	98
99)	nButylbenzen	15.41	91	566702	12.1586	ug/L	100
100)	12dibromo3cl	16.51	157	29330	9.1186	ug/L	93
101)	135Trichlorobenzene	16.83	180	210686	11.0368	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

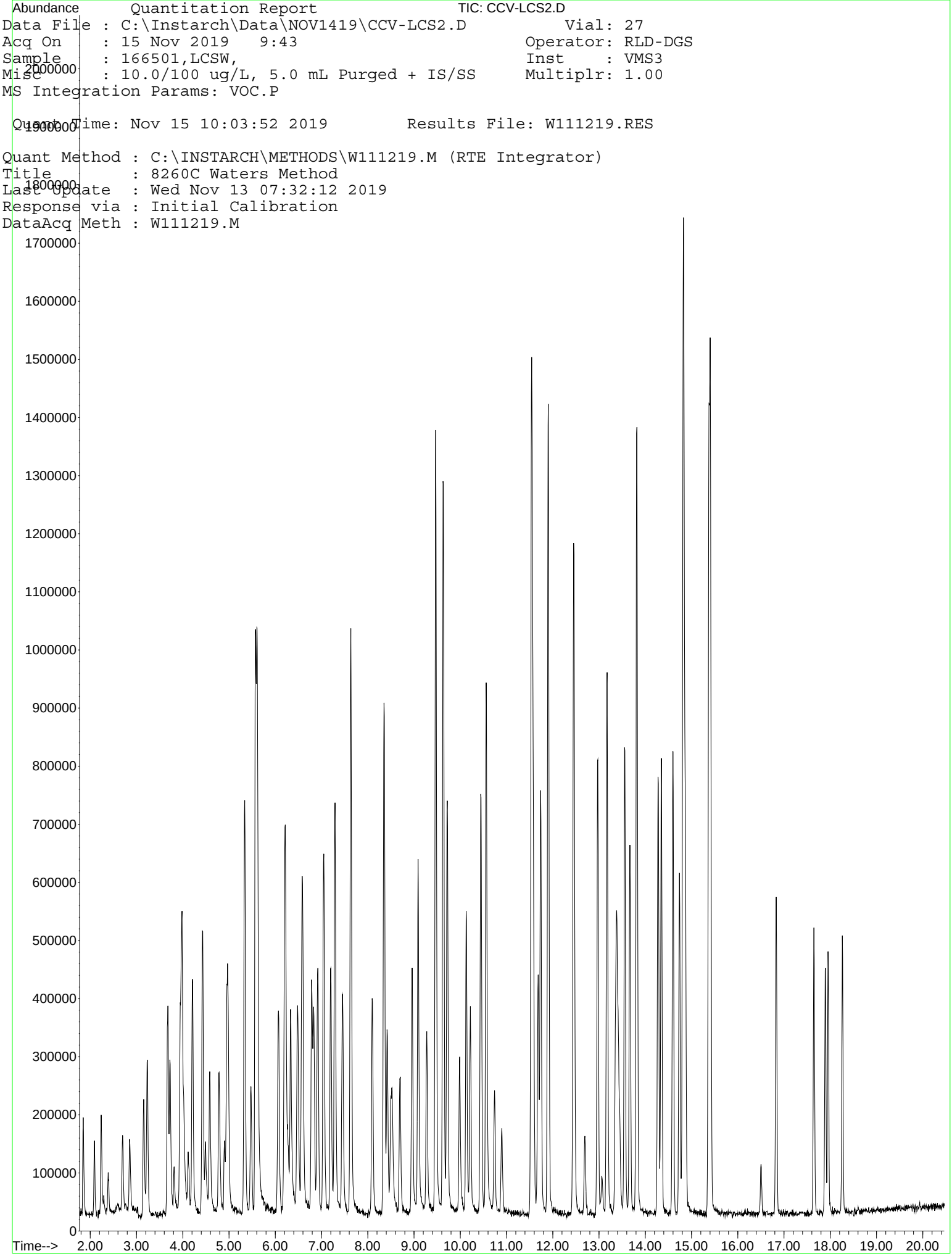
Data File : C:\Instarch\Data\NOV1419\CCV-LCS2.D Vial: 27
Acq On : 15 Nov 2019 9:43 Operator: RLD-DGS
Sample : 166501,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 10:03:52 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	184805	11.0556	ug/L	99
103) Hexachlorobu	17.90	225	92913	11.4266	ug/L	96
104) Naphthalene	17.95	128	415801	10.4732	ug/L	98
105) 123Trichlben	18.26	180	159669	10.5399	ug/L	99

(#) = qualifier out of range (m) = manual integration


Abundance
Quantitation Report
TIC: CCV-LCS2.D
Data File : C:\Instarch\Data\NOV1419\CCV-LCS2.D
Vial: 27
Acq On : 15 Nov 2019 9:43
Operator: RLD-DGS
Sample : 166501,LCSW,
Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS
Multiplr: 1.00
MS Integration Params: VOC.P
Quant Time: Nov 15 10:03:52 2019
Results File: W111219.RES
Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
2000000
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Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1419\CCVF2.D Vial: 34
Acq On : 15 Nov 2019 15:10 Operator: RLD-DGS
Sample : 166501,CCVF, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 15 15:30:57 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	102	0.00
2	PT	Dichlorodi	0.2570	0.2889	-12.41	102	0.00
3	PT	Chloromethan	0.2469	0.2506	-1.50	103	0.00
4	PT	VinylChlorid	0.3134	0.3531	-12.67	108	0.00
5	PT	Bromomethane	0.1797	0.1911	-6.34	102	0.00
6	PT	Chloroethane	0.2593	0.2559	1.31	102	0.00
7	T	Dichloroflmethane	0.4513	0.4635	-2.70	102	0.00
8	PT	Trichlorofma	0.4049	0.4495	-11.02	103	0.00
9	T	Ethylether	0.1811	0.1846	-1.93	101	0.00
10	T	dichlorotfluoroethan	0.2650	0.2934	-10.72	104	0.00
11	T	propyleneoxide	0.0192	0.0429	-123.44#	171	0.00
12	T	Acrolein	0.0345	0.0394	-14.20	108	-0.01
13	PT	11dichlorthe	0.2315	0.2470	-6.70	100	0.00
14	PT	Trichlorotfluoroeth	0.2132	0.2525	-18.43	108	0.00
15	PT	Acetone	0.0461	0.0564#	-22.34	119	0.00
16	T	Iodomethane	0.1064	0.1520	-42.86	178	0.00
17	PT	Carbon Dislf	0.5749	0.6548	-13.90	106	0.00
18	T	allylchloride	0.3263	0.3360	-2.97	100	0.00
19	PT	methylacetate	0.0958	0.1050	-9.60	110	-0.01
20	PT	Methylchlorid	0.2832	0.2770	2.19	108	0.00
21	T	tbutylalcohol	0.0161	0.0187#	-16.15	113	0.00
22	T	Acrylonitrile	0.0581	0.0655	-12.74	110	0.00
23	PT	t12dichlorte	0.2564	0.2713	-5.81	108	0.00
24	PT	MtBE	0.6944	0.7268	-4.67	107	0.00
25	T	Hexane	0.2833	0.3443	-21.53	107	0.00
26	PT	11dichlorota	0.4512	0.4578	-1.46	102	0.00
27	T	Vinylacetate	0.3058	0.3576	-16.94	105	0.00
28	T	chloroprene	0.3345	0.3807	-13.81	104	0.00
29	T	Diisopether	0.6790	0.6922	-1.94	101	0.00
30	T	ETBE	0.6690	0.6650	0.60	101	0.00
31	T	22dichloropr	0.3989	0.4056	-1.68	101	0.00
32	PT	c12dichlorte	0.2957	0.2974	-0.57	101	0.00
33	PT	2Butanone	0.0256	0.0301#	-17.58	114	0.00
34	T	propionitrile	0.0227	0.0257#	-13.22	115	0.00
35	T	Ethylacetate	0.0099	0.0103#	-4.04	112	0.00
36	T	methacrylonitrile	0.1011	0.1176	-16.32	109	0.00
37	T	Bromochlorma	0.1345	0.1303	3.12	106	0.00
38	T	Tetrahydofur	0.0571	0.0643	-12.61	111	0.00
39	PT	Chloroform	0.4858	0.4870	-0.25	103	0.00
40	PT	111trichlota	0.4252	0.4587	-7.88	103	0.00
41	S	SURRDibrflma	0.2561	0.2538	0.90	102	0.00
42	PT	Cyclohexane	0.3510	0.4092	-16.58	106	0.00
43	PT	Carbtetraclo	0.3394	0.3782	-11.43	105	0.00
44	T	11dicloprope	0.1290	0.1376	-6.67	104	0.00
45	S	SURR12DCAd4	0.0707	0.0667	5.66	99	0.00
46	PT	Benzene	1.0429	1.0983	-5.31	100	0.00
47	PT	12dichlorota	0.3663	0.3824	-4.40	107	0.00
48	T	TAME	0.6856	0.7090	-3.41	102	0.00

49	PT	trichloroete	0.2780	0.2880	-3.60	102	0.00
50	PT	methylcyclohexane	0.4380	0.5557	-26.87	109	0.00
51	PT	12dicloropra	0.2741	0.2713	1.02	101	0.00
52	T	23Dicl1propene	0.3958	0.3912	1.16	103	0.00
53	T	Dibromometha	0.1669	0.1657	0.72	99	0.00
54	T	methylmethacrylate	0.1711	0.1819	-6.31	102	0.00
55	T	14dioxane	0.0014	0.0013#	7.14	101	0.00
56	PT	Bromodiclrma	0.3581	0.3702	-3.38	104	0.00
57	T	2Nitropropane	0.0639	0.0744	-16.43	114	0.00
58	T	2CLEVE	0.0963	0.1242	-28.97	113	0.00
59	PT	c13dicloproe	0.4111	0.4222	-2.70	101	0.00
60	PT	4Meth2Pentan	0.1885	0.2158	-14.48	107	0.00
61	S	SURRd8Tolule	0.9742	0.9807	-0.67	103	0.00
62	PT	Toluene	0.7117	0.7621	-7.08	105	0.00
63	PT	t13Dicloprop	0.3680	0.3660	0.54	98	0.00
64	T	ethylmethacrylate	0.3264	0.3513	-7.63	102	0.00
65	PT	112Triclotha	0.2049	0.2093	-2.15	106	0.00
66	PT	Tetrachlorte	0.2873	0.3056	-6.37	104	0.00
67	T	13Diclorpropa	0.4320	0.4378	-1.34	104	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	102	0.00
69	PT	2Hexanone	0.1771	0.2111	-19.20	110	0.00
70	PT	Clorodibrmta	0.3250	0.3295	-1.38	102	0.00
71	PT	12Dibrometha	0.3022	0.3234	-7.02	107	0.00
72	PT	Chlorobenzen	0.9486	1.0083	-6.29	105	0.00
73	T	1Clhexane	0.4481	0.5189	-15.80	109	0.00
74	T	1112Tetclota	0.3395	0.3402	-0.21	103	0.00
75	PT	Ethylbenzene	1.5339	1.7568	-14.53	106	0.00
76	PT	m p-Xylene	0.5967	0.6674	-11.85	103	0.00
77	PT	o-Xylene	0.6055	0.6436	-6.29	103	0.00
78	PT	Styrene	0.9442	1.0320	-9.30	102	0.00
79	PT	Bromoform	0.1960	0.2007	-2.40	109	0.00
80	PT	Isopropylben	1.4248	1.6900	-18.61	107	0.00
81	T	cyclohexanone	0.0064	0.0066#	-3.12	108	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	103	0.00
83	S	SURR4BrFBenz	0.9045	0.8841	2.26	100	0.00
84	T	Bromobenzene	0.7396	0.7634	-3.22	108	0.00
85	PT	1122Tetrclta	0.7789	0.8563	-9.94	116	0.00
86	T	123Triclproa	0.9635	1.0067	-4.48	111	0.00
87	T	14dichloro2butene	0.1878	0.1974	-5.11	120	0.00
88	T	n-Propylbenz	2.9764	3.4791	-16.89	106	0.00
89	T	2chlorotolue	1.9136	2.0663	-7.98	103	0.00
90	T	4chlorotolue	2.2144	2.5219	-13.89	109	0.00
91	T	135Trimebenz	2.1724	2.5057	-15.34	107	0.00
92	T	tbutylbenzen	1.8395	2.1133	-14.88	106	0.00
93	T	124Trimetben	2.1869	2.5070	-14.64	107	0.00
94	T	sbutylbenzen	2.5079	3.1682	-26.33	112	0.00
95	PT	13Diclorbenz	1.3205	1.3932	-5.51	104	0.00
96	T	pIsopropylto	2.2175	2.6336	-18.76	107	0.00
97	PT	14dichlorobe	1.3827	1.4901	-7.77	107	0.00
98	PT	12dichlorobe	1.2820	1.3426	-4.73	109	0.00
99	T	nButylbenzen	2.0247	2.4383	-20.43	110	0.00
100	PT	12dibromo3cl	0.1397	0.1534	-9.81	118	0.01
101	T	135Trichlorobenzene	0.8292	0.9345	-12.70	108	0.00
102	PT	124Trichlobe	0.7261	0.8030	-10.59	110	0.00
103	T	Hexachlorobu	0.3532	0.4145	-17.36	114	0.00
104	T	Naphthalene	1.7246	2.0536	-19.08	115	0.00
105	T	123Trichlben	0.6581	0.7386	-12.23	114	0.00

(#) = Out of Range SPCC's out = 2 CCC's out = 0

W111219.M Thu Nov 21 10:43:28 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV1419\CCVF2.D Vial: 34
Acq On : 15 Nov 2019 15:10 Operator: RLD-DGS
Sample : 166501,CCVF, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Nov 15 15:30:57 2019

Quant Method : C:\INSTARCH\METHODS\W111219.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W111219.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	102	0.00
2	PT	Dichlorodi	10.0000	11.2443	-12.44	102	0.00
3	PT	Chloromethan	10.0000	10.1500	-1.50	103	0.00
4	PT	VinylChlorid	10.0000	11.2671	-12.67	108	0.00
5	PT	Bromomethane	10.0000	10.6388	-6.39	102	0.00
6	PT	Chloroethane	10.0000	9.8692	1.31	102	0.00
7	T	Dichloroflmethane	10.0000	10.2710	-2.71	102	0.00
8	PT	Trichlorofma	10.0000	11.1008	-11.01	103	0.00
9	T	Ethylether	10.0000	10.1964	-1.96	101	0.00
10	T	dichlorotfluoroethan	10.0000	11.0743	-10.74	104	0.00
11	T	propyleneoxide	100.0000	183.9288	-83.93#	171	0.00
12	T	Acrolein	50.0000	52.7048	-5.41	108	-0.01
13	PT	11dichlorthe	10.0000	10.6688	-6.69	100	0.00
14	PT	Trichlorotfluoroeth	20.0000	23.6872	-18.44	108	0.00
15	PT	Acetone	100.0000	122.3491	-22.35	119	0.00
16	T	Iodomethane	20.0000	25.0538	-25.27	178	0.00
17	PT	Carbon Dislf	20.0000	22.7813	-13.91	106	0.00
18	T	allylchloride	20.0000	20.5930	-2.96	100	0.00
19	PT	methylacetate	10.0000	10.9689	-9.69	110	-0.01
20	PT	Methylchlorid	10.0000	9.7827	2.17	108	0.00
21	T	tbutylalcohol	500.0000	581.6277	-16.33	113	0.00
22	T	Acrylonitrile	50.0000	52.1624	-4.32	110	0.00
23	PT	t12dichlorte	10.0000	10.5789	-5.79	108	0.00
24	PT	MtBE	10.0000	10.4669	-4.67	107	0.00
25	T	Hexane	20.0000	24.3081	-21.54	107	0.00
26	PT	11dichlorota	10.0000	10.1459	-1.46	102	0.00
27	T	Vinylacetate	100.0000	116.9358	-16.94	105	0.00
28	T	chloroprene	20.0000	22.7626	-13.81	104	0.00
29	T	Diisopether	10.0000	10.1939	-1.94	101	0.00
30	T	ETBE	10.0000	9.9394	0.61	101	0.00
31	T	22dichloropr	10.0000	10.1670	-1.67	101	0.00
32	PT	c12dichlorte	10.0000	10.0562	-0.56	101	0.00
33	PT	2Butanone	100.0000	117.4971	-17.50	114	0.00
34	T	propionitrile	100.0000	113.1762	-13.18	115	0.00
35	T	Ethylacetate	50.0000	52.0199	-4.04	112	0.00
36	T	methacrylonitrile	20.0000	23.2757	-16.38	109	0.00
37	T	Bromochlorma	10.0000	9.6887	3.11	106	0.00
38	T	Tetrahydofur	100.0000	112.6070	-12.61	111	0.00
39	PT	Chloroform	10.0000	10.0228	-0.23	103	0.00
40	PT	111trichlota	10.0000	10.7884	-7.88	103	0.00
41	S	SURRDibrflma	20.0000	19.8219	0.89	102	0.00
42	PT	Cyclohexane	10.0000	11.6582	-16.58	106	0.00
43	PT	Carbtetraclo	10.0000	11.1412	-11.41	105	0.00
44	T	11dicloprope	10.0000	10.6664	-6.66	104	0.00
45	S	SURR12DCAd4	20.0000	18.8689	5.66	99	0.00
46	PT	Benzene	10.0000	10.5311	-5.31	100	0.00
47	PT	12dichlorota	10.0000	10.4382	-4.38	107	0.00
48	T	TAME	10.0000	10.3408	-3.41	102	0.00

49	PT	trichloroete	10.0000	10.3592	-3.59	102	0.00
50	PT	methylcyclohexane	10.0000	10.9145	-9.15	109	0.00
51	PT	12dicloropra	10.0000	9.9001	1.00	101	0.00
52	T	23Dicl1propene	10.0000	9.8827	1.17	103	0.00
53	T	Dibromometha	10.0000	9.9310	0.69	99	0.00
54	T	methylmethacrylate	10.0000	10.6318	-6.32	102	0.00
55	T	14dioxane	500.0000	486.0224	2.80	101	0.00
56	PT	Bromodiclrma	10.0000	10.3367	-3.37	104	0.00
57	T	2Nitropropane	100.0000	116.2940	-16.29	114	0.00
58	T	2CLEVE	50.0000	57.0055	-14.01	113	0.00
59	PT	c13dicloproe	10.0000	10.2695	-2.70	101	0.00
60	PT	4Meth2Pentan	100.0000	114.4756	-14.48	107	0.00
61	S	SURRd8Tolule	20.0000	20.1334	-0.67	103	0.00
62	PT	Toluene	10.0000	10.7079	-7.08	105	0.00
63	PT	t13Dicloprop	10.0000	9.9451	0.55	98	0.00
64	T	ethylmethacrylate	20.0000	21.5277	-7.64	102	0.00
65	PT	112Triclotha	10.0000	10.2121	-2.12	106	0.00
66	PT	Tetrachlorte	10.0000	10.6390	-6.39	104	0.00
67	T	13Diclorpropa	10.0000	10.1349	-1.35	104	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	102	0.00
69	PT	2Hexanone	100.0000	119.2507	-19.25	110	0.00
70	PT	Clorodibrmta	10.0000	10.1395	-1.39	102	0.00
71	PT	12Dibrometha	10.0000	10.7024	-7.02	107	0.00
72	PT	Chlorobenzen	10.0000	10.6296	-6.30	105	0.00
73	T	1Clhexane	10.0000	11.5808	-15.81	109	0.00
74	T	1112Tetclota	10.0000	10.0188	-0.19	103	0.00
75	PT	Ethylbenzene	10.0000	11.4535	-14.54	106	0.00
76	PT	m p-Xylene	20.0000	22.3694	-11.85	103	0.00
77	PT	o-Xylene	10.0000	10.6286	-6.29	103	0.00
78	PT	Styrene	10.0000	10.9302	-9.30	102	0.00
79	PT	Bromoform	10.0000	10.2393	-2.39	109	0.00
80	PT	Isopropylben	10.0000	11.8617	-18.62	107	0.00
81	T	cyclohexanone	200.0000	208.0299	-4.01	108	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	103	0.00
83	S	SURR4BrFBenz	20.0000	19.5494	2.25	100	0.00
84	T	Bromobenzene	10.0000	10.3225	-3.22	108	0.00
85	PT	1122Tetrclta	10.0000	10.9933	-9.93	116	0.00
86	T	123Triclproa	10.0000	10.4481	-4.48	111	0.00
87	T	14dichloro2butene	10.0000	10.5122	-5.12	120	0.00
88	T	n-Propylbenz	10.0000	11.6889	-16.89	106	0.00
89	T	2chlorotolue	10.0000	10.7979	-7.98	103	0.00
90	T	4chlorotolue	10.0000	11.3886	-13.89	109	0.00
91	T	135Trimebenz	10.0000	11.5343	-15.34	107	0.00
92	T	tbutylbenzen	10.0000	11.4885	-14.89	106	0.00
93	T	124Trimetben	10.0000	11.4638	-14.64	107	0.00
94	T	sbutylbenzen	10.0000	12.6333	-26.33	112	0.00
95	PT	13Diclorbenz	10.0000	10.5503	-5.50	104	0.00
96	T	pIsopropylto	10.0000	11.8766	-18.77	107	0.00
97	PT	14dichlorobe	10.0000	10.7766	-7.77	107	0.00
98	PT	12dichlorobe	10.0000	10.4723	-4.72	109	0.00
99	T	nButylbenzen	10.0000	12.0431	-20.43	110	0.00
100	PT	12dibromo3cl	10.0000	10.9818	-9.82	118	0.01
101	T	135Trichlorobenzene	10.0000	11.2689	-12.69	108	0.00
102	PT	124Trichlobe	10.0000	11.0591	-10.59	110	0.00
103	T	Hexachlorobu	10.0000	11.7340	-17.34	114	0.00
104	T	Naphthalene	10.0000	11.9076	-19.08	115	0.00
105	T	123Trichlben	10.0000	11.2245	-12.25	114	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W111219.M Thu Nov 21 10:43:49 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCVF2.D Vial: 34
Acq On : 15 Nov 2019 15:10 Operator: RLD-DGS
Sample : 166501,CCVF, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 15:30:57 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1109212	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	846161	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	473030	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	281568	19.822	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	73949	18.869	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 94 %			
61) SURRd8Tolule	9.63	98	1087783	20.133	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 101 %			
83) SURR4BrFBenz	13.17	95	418219	19.549	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 98 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	160243	11.2443	ug/L	99
3) Chloromethan	2.09	50	138973	10.1500	ug/L	97
4) VinylChlorid	2.24	62	195849	11.2671	ug/L	98
5) Bromomethane	2.70	94	106008	10.6388	ug/L	98
6) Chloroethane	2.86	64	141923	9.8692	ug/L	100
7) Dichloroflmethane	3.16	67	257070	10.2710	ug/L	99
8) Trichlorofma	3.23	101	249289	11.1008	ug/L	99
9) Ethylether	3.67	59	102391	10.1964	ug/L	98
10) dichlorotfluoroethan	3.68	67	162746	11.0743	ug/L	98
11) propyleneoxide	3.73	58	238041	183.9288	ug/L	93
12) Acrolein	3.81	56	109193	52.7048	ug/L	100
13) 11dichlorthe	3.95	96	137005	10.6688	ug/L	98
14) Trichlorotfluoroeth	3.98	101	280078	23.6872	ug/L	98
15) Acetone	4.03	43	313018	122.3491	ug/L	96
16) Iodomethane	4.12	142	168545	25.0538	ug/L	98
17) Carbon Dislf	4.21	76	726318	22.7813	ug/L	99
18) allylchloride	4.43	41	372653	20.5930	ug/L	98
19) methylacetate	4.49	74	58257	10.9689	ug/L	89
20) Methylchlorid	4.59	84	153651	9.7827	ug/L	92
21) tbutylalcohol	4.79	59	517954	581.6277	ug/L	99
22) Acrylonitrile	4.90	53	181612	52.1624	ug/L	97
23) t12dichlorte	4.96	96	150443	10.5789	ug/L	96
24) MtBE	4.98	73	403086	10.4669	ug/L	98
25) Hexane	5.34	57	381915	24.3081	ug/L	99
26) 11dichlorota	5.48	63	253910	10.1459	ug/L	100
27) Vinylacetate	5.57	43	1983236	116.9358	ug/L	98
28) chloroprene	5.61	53	422281	22.7626	ug/L	97
29) Diisopether	5.62	45	383885	10.1939	ug/L	98
30) ETBE	6.07	59	368808	9.9394	ug/L	99
31) 22dichloropr	6.21	77	224927	10.1670	ug/L	99
32) c12dichlorte	6.21	96	164938	10.0562	ug/L	97
33) 2Butanone	6.23	72	166758	117.4971	ug/L	97
34) propionitrile	6.28	54	142359	113.1762	ug/L	96
35) Ethylacetate	6.34	88	28574	52.0199	ug/L	95
36) methacrylonitrile	6.47	67	130476	23.2757	ug/L	98
37) Bromochlorma	6.50	128	72290	9.6887	ug/L	92
38) Tetrahydofur	6.57	42	356642	112.6070	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCVF2.D Vial: 34
Acq On : 15 Nov 2019 15:10 Operator: RLD-DGS
Sample : 166501,CCVF, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 15:30:57 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	270068	10.0228	ug/L	97
40)	111trichlota	6.84	97	254387	10.7884	ug/L	96
42)	Cyclohexane	6.92	56	226942	11.6582	ug/L	96
43)	Carbtetraclo	7.06	119	209729	11.1412	ug/L	98
44)	11dicloprope	7.05	110	76298	10.6664	ug/L	97
46)	Benzene	7.29	78	609134	10.5311	ug/L	99
47)	12dichlorota	7.30	62	212065	10.4382	ug/L	97
48)	TAME	7.46	73	393224	10.3408	ug/L	98
49)	trichloroete	8.10	95	159747	10.3592	ug/L	97
50)	methylcyclohexane	8.36	83	308204	10.9145	ug/L	100
51)	12dicloropra	8.36	63	150488	9.9001	ug/L	99
52)	23Dicl1propene	8.42	75	216951	9.8827	ug/L	97
53)	Dibromometha	8.50	93	91917	9.9310	ug/L	94
54)	methylmethacrylate	8.53	69	100900	10.6318	ug/L	97
55)	14dioxane	8.54	88	37196	486.0224	ug/L	95
56)	Bromodiclrma	8.70	83	205291	10.3367	ug/L	99
57)	2Nitropropane	8.96	43	412405	116.2940	ug/L	99
58)	2CLEVE	9.09	63	344332	57.0055	ug/L	99
59)	c13dicloproe	9.28	75	234146	10.2695	ug/L	95
60)	4Meth2Pentan	9.47	43	1197029	114.4756	ug/L	98
62)	Toluene	9.72	92	422655	10.7079	ug/L	100
63)	t13Dicloprop	9.99	75	202981	9.9451	ug/L	98
64)	ethylmethacrylate	10.13	69	389642	21.5277	ug/L	96
65)	112Triclotha	10.22	83	116063	10.2121	ug/L	97
66)	Tetrachlorte	10.45	166	169502	10.6390	ug/L	98
67)	13Diclorpropa	10.44	76	242826	10.1349	ug/L	99
69)	2Hexanone	10.56	43	893321	119.2507	ug/L	98
70)	Clorodibrmta	10.74	129	139406	10.1395	ug/L	99
71)	12Dibrometha	10.90	107	136822	10.7024	ug/L	99
72)	Chlorobenzen	11.58	112	426582	10.6296	ug/L	99
73)	1Clhexane	11.56	91	219539	11.5808	ug/L	98
74)	1112Tetclota	11.68	131	143920	10.0188	ug/L	99
75)	Ethylbenzene	11.74	91	743275	11.4535	ug/L	99
76)	m p-Xylene	11.90	106	564699	22.3694	ug/L	97
77)	o-Xylene	12.45	106	272282	10.6286	ug/L	99
78)	Styrene	12.46	104	436640	10.9302	ug/L	97
79)	Bromoform	12.70	173	84911	10.2393	ug/L	92
80)	Isopropylben	12.97	105	715004	11.8617	ug/L	99
81)	cyclohexanone	13.07	55	56003	208.0299	ug/L	96
84)	Bromobenzene	13.38	156	180567	10.3225	ug/L	98
85)	1122Tetrclta	13.36	83	202516	10.9933	ug/L	95
86)	123Triclproa	13.42	75	238094	10.4481	ug/L	100
87)	14dichloro2butene	13.44	53	46697	10.5122	ug/L	87
88)	n-Propylbenz	13.55	91	822848	11.6889	ug/L	99
89)	2chlorotolue	13.67	91	488711	10.7979	ug/L	98
90)	4chlorotolue	13.82	91	596457	11.3886	ug/L	99
91)	135Trimebenz	13.81	105	592631	11.5343	ug/L	98
92)	tbutylbenzen	14.28	119	499822	11.4885	ug/L	99
93)	124Trimetben	14.35	105	592943	11.4638	ug/L	100
94)	sbutylbenzen	14.60	105	749335	12.6333	ug/L	100
95)	13Diclorbenz	14.74	146	329515	10.5503	ug/L	100
96)	pIsopropylto	14.81	119	622887	11.8766	ug/L	98
97)	14dichlorobe	14.87	146	352438	10.7766	ug/L	97
98)	12dichlorobe	15.40	146	317537	10.4723	ug/L	98
99)	nButylbenzen	15.41	91	576704	12.0431	ug/L	98
100)	12dibromo3cl	16.51	157	36291	10.9818	ug/L	87
101)	135Trichlorobenzene	16.83	180	221012	11.2689	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCVF2.D Vial: 34
Acq On : 15 Nov 2019 15:10 Operator: RLD-DGS
Sample : 166501,CCVF, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 15:30:57 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	189929	11.0591	ug/L	97
103) Hexachlorobu	17.89	225	98028	11.7340	ug/L	98
104) Naphthalene	17.95	128	485704	11.9076	ug/L	99
105) 123Trichlben	18.26	180	174699	11.2245	ug/L	100

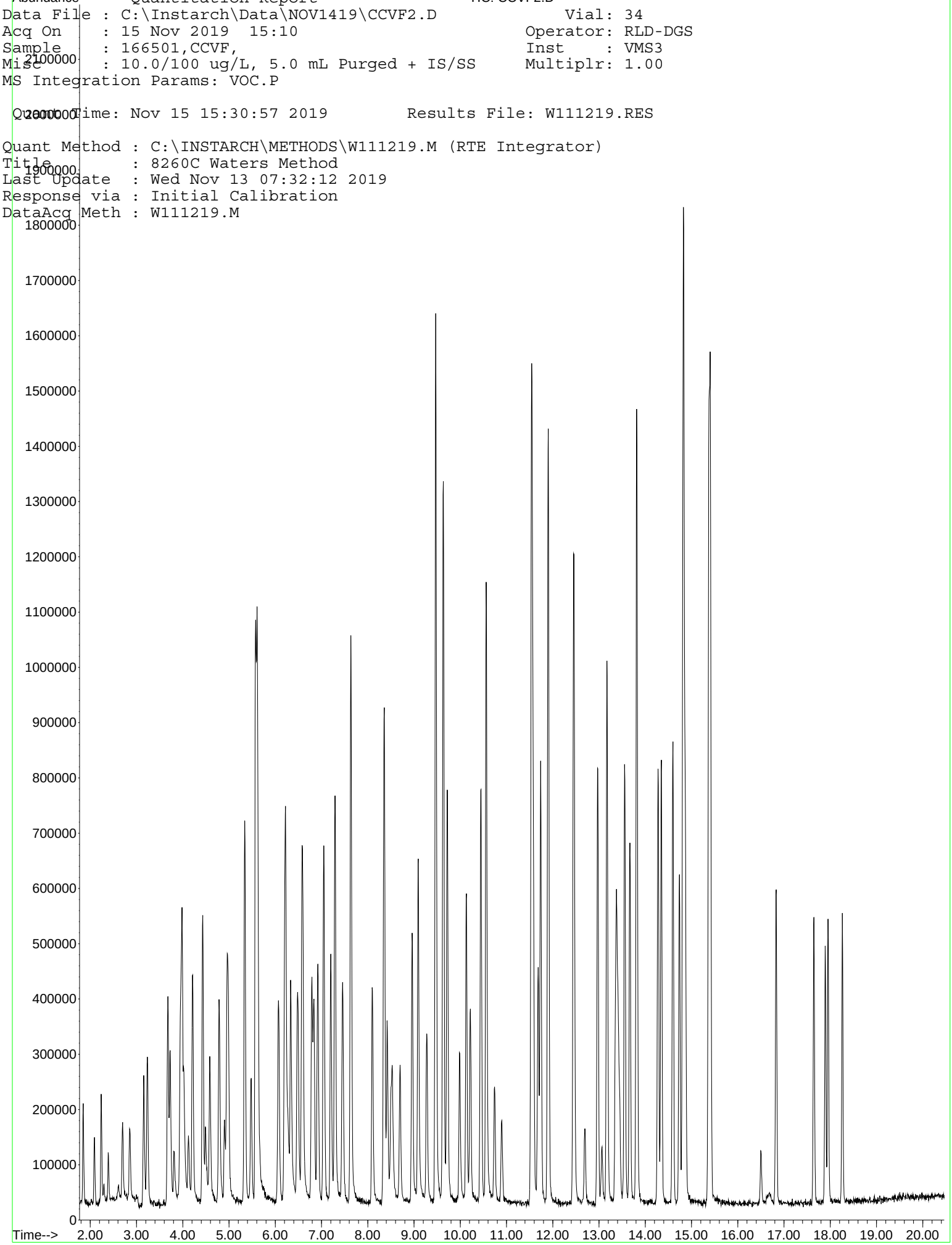
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCVF2.D

Data File : C:\Instarch\Data\NOV1419\CCVF2.D Vial: 34
Acq On : 15 Nov 2019 15:10 Operator: RLD-DGS
Sample : 166501,CCVF, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 15:30:57 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



BFB

Data File : C:\Instarch\Data\NOV3019B\BFB2.D Vial: 26
Acq On : 1 Dec 2019 8:21 Operator: RLD-DGS
Sample : 167041,BFB, Inst : VMS3
Misc : 50 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W112419.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.579 to 4.609 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	16178	PASS
75	95	30	60	50.3	50262	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.8	6850	PASS
173	174	0.00	2	0.7	740	PASS
174	95	50	100	99.8	99751	PASS
175	174	5	9	8.7	8696	PASS
176	174	95	101	98.8	98517	PASS
177	176	5	9	6.9	6799	PASS

W112419.M Mon Dec 02 10:39:33 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV3019B\CCV-LCS2.D Vial: 27
Acq On : 1 Dec 2019 8:37 Operator: RLD-DGS
Sample : 167041,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Dec 01 08:58:01 2019

Quant Method : C:\INSTARCH\METHODS\W112419.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W112419.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	117	0.00
2	PT	Dichlorodi	0.3157	0.3645	-15.46	128	0.00
3	PT	Chloromethan	0.2690	0.2660	1.12	112	0.00
4	PT	VinylChlorid	0.3589	0.3760	-4.76	112	0.00
5	PT	Bromomethane	0.2329	0.2208	5.20	110	0.00
6	PT	Chloroethane	0.2727	0.2687	1.47	115	0.00
7	T	Dichloroflmethane	0.4774	0.4667	2.24	111	0.00
8	PT	Trichlorofma	0.4397	0.4749	-8.01	112	0.00
9	T	Ethylether	0.2013	0.1843	8.45	108	0.00
10	T	dichlorotfluoroethan	0.2903	0.2956	-1.83	112	0.00
11	T	propyleneoxide	0.0478	0.0454	5.02	111	0.00
12	T	Acrolein	0.0432	0.0355	17.82	93	0.00
13	PT	11dichlorthe	0.2471	0.2640	-6.84	117	0.00
14	PT	Trichlorotfluoroeth	0.2456	0.2703	-10.06	114	0.00
15	PT	Acetone	0.0642	0.0535#	16.67	98	0.00
16	T	Iodomethane	0.2134	0.1564	26.71#	89	0.00
17	PT	Carbon Dislf	0.6228	0.6580	-5.65	112	0.00
18	T	allylchloride	0.3380	0.3312	2.01	108	0.00
19	PT	methylacetate	0.1152	0.1083	5.99	112	0.00
20	PT	Methylchlorid	0.2932	0.2587	11.77	109	0.00
21	T	tbutylalcohol	0.0221	0.0163#	26.24#	80	0.00
22	T	Acrylonitrile	0.0719	0.0610	15.16	96	0.00
23	PT	t12dichlorte	0.2788	0.2828	-1.43	114	0.00
24	PT	MtBE	0.7317	0.6851	6.37	105	0.00
25	T	Hexane	0.3340	0.3672	-9.94	109	0.00
26	PT	11dichlorota	0.4498	0.4384	2.53	112	0.00
27	T	Vinylacetate	0.3400	0.3201	5.85	98	0.00
28	T	chloroprene	0.3601	0.3786	-5.14	111	0.00
29	T	Diisopether	0.6926	0.6610	4.56	108	0.00
30	T	ETBE	0.6540	0.6301	3.65	107	0.00
31	T	22dichloropr	0.4127	0.4284	-3.80	116	0.00
32	PT	c12dichlorte	0.3118	0.2927	6.13	114	0.00
33	PT	2Butanone	0.0328	0.0289#	11.89	98	0.00
34	T	propionitrile	0.0304	0.0274#	9.87	98	0.00
35	T	Ethylacetate	0.0119	0.0103#	13.45	97	0.00
36	T	methacrylonitrile	0.1157	0.1077	6.91	104	0.00
37	T	Bromochlorma	0.1454	0.1378	5.23	112	0.00
38	T	Tetrahydofur	0.0693	0.0595	14.14	96	0.00
39	PT	Chloroform	0.4847	0.4763	1.73	111	0.00
40	PT	111trichlota	0.4432	0.4489	-1.29	111	0.00
41	S	SURRDibrflma	0.2695	0.2786	-3.38	123	0.00
42	PT	Cyclohexane	0.3745	0.3822	-2.06	107	0.00
43	PT	Carbtetraclo	0.3728	0.3859	-3.51	114	0.00
44	T	11dicloprope	0.1388	0.1394	-0.43	113	0.00
45	S	SURR12DCAd4	0.0700	0.0698	0.29	117	0.00
46	PT	Benzene	1.0506	1.0516	-0.10	110	0.00
47	PT	12dichlorota	0.3638	0.3446	5.28	109	0.00
48	T	TAME	0.6789	0.6476	4.61	105	0.00

49	PT	trichloroete	0.2882	0.2732	5.20	112	0.00
50	PT	methylcyclohexane	0.5241	0.5695	-8.66	114	0.00
51	PT	12dicloropra	0.2693	0.2557	5.05	110	0.00
52	T	23Dicl1propene	0.3947	0.3689	6.54	108	0.00
53	T	Dibromometha	0.1772	0.1667	5.93	113	0.00
54	T	methylmethacrylate	0.1857	0.1694	8.78	105	0.00
55	T	14dioxane	0.0021	0.0013#	38.10#	67	0.00
56	PT	Bromodiclrma	0.3547	0.3333	6.03	107	0.00
57	T	2Nitropropane	0.0753	0.0704	6.51	101	0.00
58	T	2CLEVE	0.0989	0.1060	-7.18	116	0.00
59	PT	c13dicloproe	0.4138	0.4157	-0.46	113	0.00
60	PT	4Meth2Pentan	0.2116	0.1897	10.35	98	0.00
61	S	SURRd8Tolule	1.0102	1.0036	0.65	119	0.00
62	PT	Toluene	0.7536	0.7334	2.68	110	0.00
63	PT	t13Dicloprop	0.3623	0.3547	2.10	112	0.00
64	T	ethylmethacrylate	0.3421	0.3212	6.11	103	0.00
65	PT	112Triclotha	0.2042	0.1911	6.42	107	0.00
66	PT	Tetrachlorte	0.3376	0.3549	-5.12	117	0.00
67	T	13Diclorpropa	0.4399	0.4390	0.20	114	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	115	0.00
69	PT	2Hexanone	0.1811	0.1678	7.34	95	0.00
70	PT	Clorodibrmta	0.3170	0.3130	1.26	109	0.00
71	PT	12Dibrometha	0.3034	0.3022	0.40	109	0.00
72	PT	Chlorobenzen	0.9433	0.9828	-4.19	113	0.00
73	T	1Clhexane	0.4558	0.4757	-4.37	111	0.00
74	T	1112Tetclota	0.3360	0.3429	-2.05	114	0.00
75	PT	Ethylbenzene	1.4436	1.5373	-6.49	110	0.00
76	PT	m p-Xylene	0.5718	0.6008	-5.07	109	0.00
77	PT	o-Xylene	0.5593	0.5915	-5.76	114	0.00
78	PT	Styrene	0.8771	0.9293	-5.95	108	0.00
79	PT	Bromoform	0.2148	0.2021	5.91	109	0.00
80	PT	Isopropylben	1.3412	1.4592	-8.80	110	0.00
81	T	cyclohexanone	0.0081	0.0055#	32.10#	80	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	115	0.00
83	S	SURR4BrFBenz	0.8166	0.8064	1.25	116	0.00
84	T	Bromobenzene	0.7042	0.7082	-0.57	114	0.00
85	PT	1122Tetrclta	0.7279	0.6760	7.13	106	0.00
86	T	123Triclproa	0.8593	0.7970	7.25	106	0.00
87	T	14dichloro2butene	0.1693	0.1485	12.29	99	0.00
88	T	n-Propylbenz	2.7174	2.9333	-7.95	109	0.00
89	T	2chlorotolue	1.7084	1.7123	-0.23	106	0.00
90	T	4chlorotolue	1.9660	2.0385	-3.69	112	0.00
91	T	135Trimebenz	1.9227	2.0524	-6.75	109	0.00
92	T	tbutylbenzen	1.7147	1.8266	-6.53	113	0.00
93	T	124Trimetben	1.9204	2.0964	-9.16	110	0.00
94	T	sbutylbenzen	2.3485	2.6078	-11.04	110	0.00
95	PT	13Diclorbenz	1.2899	1.3387	-3.78	115	0.00
96	T	pIsopropylto	2.0541	2.2787	-10.93	109	0.00
97	PT	14dichlorobe	1.3622	1.3684	-0.46	114	0.00
98	PT	12dichlorobe	1.2613	1.2633	-0.16	111	0.00
99	T	nButylbenzen	1.9271	2.0625	-7.03	111	0.00
100	PT	12dibromo3cl	0.1553	0.1417	8.76	107	0.00
101	T	135Trichlorobenzene	0.9194	0.9377	-1.99	113	0.00
102	PT	124Trichlobe	0.7441	0.7474	-0.44	116	0.00
103	T	Hexachlorobu	0.3593	0.3758	-4.59	116	0.00
104	T	Naphthalene	1.5747	1.4965	4.97	101	0.00
105	T	123Trichlben	0.6816	0.6826	-0.15	110	0.00

(#) = Out of Range SPCC's out = 2 CCC's out = 0

W112419.M Fri Dec 06 09:57:38 2019

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\NOV3019B\CCV-LCS2.D Vial: 27
Acq On : 1 Dec 2019 8:37 Operator: RLD-DGS
Sample : 167041,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Dec 01 08:58:01 2019

Quant Method : C:\INSTARCH\METHODS\W112419.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W112419.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	117	0.00
2	PT	Dichlorodi	10.0000	11.5461	-15.46	128	0.00
3	PT	Chloromethan	10.0000	9.8876	1.12	112	0.00
4	PT	VinylChlorid	10.0000	10.4760	-4.76	112	0.00
5	PT	Bromomethane	10.0000	9.4775	5.23	110	0.00
6	PT	Chloroethane	10.0000	9.8531	1.47	115	0.00
7	T	Dichloroflmethane	10.0000	9.7764	2.24	111	0.00
8	PT	Trichlorofma	10.0000	10.8003	-8.00	112	0.00
9	T	Ethylether	10.0000	9.1551	8.45	108	0.00
10	T	dichlorotfluoroethan	10.0000	10.1814	-1.81	112	0.00
11	T	propyleneoxide	100.0000	95.1016	4.90	111	0.00
12	T	Acrolein	50.0000	41.1139	17.77	93	0.00
13	PT	11dichlorthe	10.0000	10.6829	-6.83	117	0.00
14	PT	Trichlorotfluoroeth	20.0000	22.0177	-10.09	114	0.00
15	PT	Acetone	100.0000	83.3118	16.69	98	0.00
16	T	Iodomethane	20.0000	13.9356	30.32#	89	0.00
17	PT	Carbon Dislf	20.0000	21.1285	-5.64	112	0.00
18	T	allylchloride	20.0000	19.6004	2.00	108	0.00
19	PT	methylacetate	10.0000	9.4055	5.95	112	0.00
20	PT	Methylchlorid	10.0000	8.8215	11.78	109	0.00
21	T	tbutylalcohol	500.0000	370.0944	25.98#	80	0.00
22	T	Acrylonitrile	50.0000	42.4190	15.16	96	0.00
23	PT	t12dichlorte	10.0000	10.1437	-1.44	114	0.00
24	PT	MtBE	10.0000	9.3624	6.38	105	0.00
25	T	Hexane	20.0000	21.9926	-9.96	109	0.00
26	PT	11dichlorota	10.0000	9.7466	2.53	112	0.00
27	T	Vinylacetate	100.0000	94.1478	5.85	98	0.00
28	T	chloroprene	20.0000	21.0268	-5.13	111	0.00
29	T	Diisopether	10.0000	9.5438	4.56	108	0.00
30	T	ETBE	10.0000	9.6346	3.65	107	0.00
31	T	22dichloropr	10.0000	10.3810	-3.81	116	0.00
32	PT	c12dichlorte	10.0000	9.3872	6.13	114	0.00
33	PT	2Butanone	100.0000	88.0024	12.00	98	0.00
34	T	propionitrile	100.0000	85.1606	14.84	98	0.00
35	T	Ethylacetate	50.0000	43.1930	13.61	97	0.00
36	T	methacrylonitrile	20.0000	18.6085	6.96	104	0.00
37	T	Bromochlorma	10.0000	9.4749	5.25	112	0.00
38	T	Tetrahydofur	100.0000	85.8298	14.17	96	0.00
39	PT	Chloroform	10.0000	9.8260	1.74	111	0.00
40	PT	111trichlota	10.0000	10.1292	-1.29	111	0.00
41	S	SURRDibrflma	20.0000	20.6755	-3.38	123	0.00
42	PT	Cyclohexane	10.0000	10.2076	-2.08	107	0.00
43	PT	Carbtetraclo	10.0000	10.3501	-3.50	114	0.00
44	T	11dicloprope	10.0000	10.0463	-0.46	113	0.00
45	S	SURR12DCAd4	20.0000	19.9513	0.24	117	0.00
46	PT	Benzene	10.0000	10.0093	-0.09	110	0.00
47	PT	12dichlorota	10.0000	9.4727	5.27	109	0.00
48	T	TAME	10.0000	9.5384	4.62	105	0.00

49	PT	trichloroete	10.0000	9.4795	5.21	112	0.00
50	PT	methylcyclohexane	10.0000	10.8661	-8.66	114	0.00
51	PT	12dicloropra	10.0000	9.4947	5.05	110	0.00
52	T	23Dicl1propene	10.0000	9.3451	6.55	108	0.00
53	T	Dibromometha	10.0000	9.4078	5.92	113	0.00
54	T	methylmethacrylate	10.0000	9.1211	8.79	105	0.00
55	T	14dioxane	500.0000	291.5972	41.68#	67	0.00
56	PT	Bromodiclrma	10.0000	9.3974	6.03	107	0.00
57	T	2Nitropropane	100.0000	93.4183	6.58	101	0.00
58	T	2CLEVE	50.0000	48.5145	2.97	116	0.00
59	PT	c13dicloproe	10.0000	10.0468	-0.47	113	0.00
60	PT	4Meth2Pentan	100.0000	89.6291	10.37	98	0.00
61	S	SURRd8Tolule	20.0000	19.8702	0.65	119	0.00
62	PT	Toluene	10.0000	9.7318	2.68	110	0.00
63	PT	t13Dicloprop	10.0000	9.7915	2.09	112	0.00
64	T	ethylmethacrylate	20.0000	18.7786	6.11	103	0.00
65	PT	112Triclotha	10.0000	9.3604	6.40	107	0.00
66	PT	Tetrachlorte	10.0000	10.5100	-5.10	117	0.00
67	T	13Diclorpropa	10.0000	9.9796	0.20	114	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	115	0.00
69	PT	2Hexanone	100.0000	92.6981	7.30	95	0.00
70	PT	Clorodibrmta	10.0000	9.8744	1.26	109	0.00
71	PT	12Dibrometha	10.0000	9.9632	0.37	109	0.00
72	PT	Chlorobenzen	10.0000	10.4187	-4.19	113	0.00
73	T	1Clhexane	10.0000	10.4384	-4.38	111	0.00
74	T	1112Tetclota	10.0000	10.2067	-2.07	114	0.00
75	PT	Ethylbenzene	10.0000	10.6493	-6.49	110	0.00
76	PT	m p-Xylene	20.0000	21.0164	-5.08	109	0.00
77	PT	o-Xylene	10.0000	10.5750	-5.75	114	0.00
78	PT	Styrene	10.0000	10.5951	-5.95	108	0.00
79	PT	Bromoform	10.0000	9.4115	5.88	109	0.00
80	PT	Isopropylben	10.0000	10.8793	-8.79	110	0.00
81	T	cyclohexanone	200.0000	135.7132	32.14#	80	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	115	0.00
83	S	SURR4BrFBenz	20.0000	19.7501	1.25	116	0.00
84	T	Bromobenzene	10.0000	10.0556	-0.56	114	0.00
85	PT	1122Tetrclta	10.0000	9.2871	7.13	106	0.00
86	T	123Triclproa	10.0000	9.2750	7.25	106	0.00
87	T	14dichloro2butene	10.0000	8.7706	12.29	99	0.00
88	T	n-Propylbenz	10.0000	10.7945	-7.94	109	0.00
89	T	2chlorotolue	10.0000	10.0228	-0.23	106	0.00
90	T	4chlorotolue	10.0000	10.3688	-3.69	112	0.00
91	T	135Trimebenz	10.0000	10.6744	-6.74	109	0.00
92	T	tbutylbenzen	10.0000	10.6525	-6.52	113	0.00
93	T	124Trimetben	10.0000	10.9163	-9.16	110	0.00
94	T	sbutylbenzen	10.0000	11.1040	-11.04	110	0.00
95	PT	13Diclorbenz	10.0000	10.3780	-3.78	115	0.00
96	T	pIsopropylto	10.0000	11.0932	-10.93	109	0.00
97	PT	14dichlorobe	10.0000	10.0453	-0.45	114	0.00
98	PT	12dichlorobe	10.0000	10.0160	-0.16	111	0.00
99	T	nButylbenzen	10.0000	10.7028	-7.03	111	0.00
100	PT	12dibromo3cl	10.0000	9.1234	8.77	107	0.00
101	T	135Trichlorobenzene	10.0000	10.1995	-2.00	113	0.00
102	PT	124Trichlobe	10.0000	10.0435	-0.43	116	0.00
103	T	Hexachlorobu	10.0000	10.4585	-4.59	116	0.00
104	T	Naphthalene	10.0000	9.5037	4.96	101	0.00
105	T	123Trichlben	10.0000	10.0152	-0.15	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W112419.M Fri Dec 06 09:57:55 2019

Quantitation Report

Data File : C:\Instarch\Data\NOV3019B\CCV-LCS2.D Vial: 27
Acq On : 1 Dec 2019 8:37 Operator: RLD-DGS
Sample : 167041,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 08:58:01 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sat Nov 30 20:55:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1181947	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	962285	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	574338	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	329268	20.676	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 103	%		
45) SURR12DCAd4	7.20	102	82494	19.951	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 100	%		
61) SURRd8Tolule	9.63	98	1186251	19.870	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99	%		
83) SURR4BrFBenz	13.17	95	463165	19.750	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 99	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	215414	11.5461	ug/L	98
3) Chloromethan	2.10	50	157178	9.8876	ug/L	95
4) VinylChlorid	2.24	62	222183	10.4760	ug/L	100
5) Bromomethane	2.70	94	130462	9.4775	ug/L	92
6) Chloroethane	2.86	64	158767	9.8531	ug/L	99
7) Dichloroflmethane	3.16	67	275811	9.7764	ug/L	100
8) Trichlorofma	3.24	101	280645	10.8003	ug/L	98
9) Ethylether	3.68	59	108901	9.1551	ug/L	98
10) dichlorotfluoroethan	3.68	67	174695	10.1814	ug/L	99
11) propyleneoxide	3.73	58	268378	95.1016	ug/L	94
12) Acrolein	3.81	56	104852	41.1139	ug/L	96
13) 11dichlorthe	3.95	96	156023	10.6829	ug/L	91
14) Trichlorotfluoroeth	3.98	101	319529	22.0177	ug/L	99
15) Acetone	4.03	43	316240	83.3118	ug/L	98
16) Iodomethane	4.12	142	184813	13.9356	ug/L	98
17) Carbon Dislf	4.21	76	777673	21.1285	ug/L	98
18) allylchloride	4.43	41	391483	19.6004	ug/L	98
19) methylacetate	4.49	74	64007	9.4055	ug/L	98
20) Methylchlorid	4.59	84	152867	8.8215	ug/L	98
21) tbutylalcohol	4.79	59	482652	370.0944	ug/L	99
22) Acrylonitrile	4.91	53	180190	42.4190	ug/L	92
23) t12dichlorte	4.96	96	167151	10.1437	ug/L	99
24) MtBE	4.99	73	404855	9.3624	ug/L	98
25) Hexane	5.35	57	434055	21.9926	ug/L	97
26) 11dichlorota	5.48	63	259099	9.7466	ug/L	98
27) Vinylacetate	5.58	43	1891857	94.1478	ug/L	98
28) chloroprene	5.61	53	447448	21.0268	ug/L	99
29) Diisopether	5.62	45	390621	9.5438	ug/L	98
30) ETBE	6.08	59	372384	9.6346	ug/L	99
31) 22dichloropr	6.21	77	253195	10.3810	ug/L	98
32) c12dichlorte	6.22	96	172989	9.3872	ug/L	97
33) 2Butanone	6.23	72	170644	88.0024	ug/L	92
34) propionitrile	6.28	54	162192	85.1606	ug/L	97
35) Ethylacetate	6.33	88	30442	43.1930	ug/L	97
36) methacrylonitrile	6.48	67	127249	18.6085	ug/L	97
37) Bromochlorma	6.50	128	81413	9.4749	ug/L	94
38) Tetrahydofur	6.58	42	351466	85.8298	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV3019B\CCV-LCS2.D Vial: 27
Acq On : 1 Dec 2019 8:37 Operator: RLD-DGS
Sample : 167041,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 08:58:01 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sat Nov 30 20:55:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	281457	9.8260	ug/L	100
40)	111trichlota	6.84	97	265282	10.1292	ug/L	98
42)	Cyclohexane	6.92	56	225899	10.2076	ug/L	94
43)	Carbtetraclo	7.06	119	228033	10.3501	ug/L	99
44)	11dicloprope	7.05	110	82382	10.0463	ug/L	95
46)	Benzene	7.29	78	621441	10.0093	ug/L	98
47)	12dichlorota	7.29	62	203667	9.4727	ug/L	98
48)	TAME	7.46	73	382714	9.5384	ug/L	98
49)	trichloroete	8.10	95	161461	9.4795	ug/L	96
50)	methylcyclohexane	8.36	83	336575	10.8661	ug/L	97
51)	12dicloropra	8.36	63	151133	9.4947	ug/L	98
52)	23Dicl1propene	8.42	75	218008	9.3451	ug/L	97
53)	Dibromometha	8.50	93	98541	9.4078	ug/L	96
54)	methylmethacrylate	8.53	69	100109	9.1211	ug/L	96
55)	14dioxane	8.55	88	37221	291.5972	ug/L	91
56)	Bromodiclrma	8.70	83	196965	9.3974	ug/L	95
57)	2Nitropropane	8.97	43	415981	93.4183	ug/L	98
58)	2CLEVE	9.09	63	313300	48.5145	ug/L	99
59)	c13dicloproe	9.28	75	245687	10.0468	ug/L	100
60)	4Meth2Pentan	9.47	43	1120993	89.6291	ug/L	99
62)	Toluene	9.72	92	433413	9.7318	ug/L	98
63)	t13Dicloprop	9.98	75	209644	9.7915	ug/L	99
64)	ethylmethacrylate	10.13	69	379602	18.7786	ug/L	99
65)	112Triclotha	10.22	83	112950	9.3604	ug/L	92
66)	Tetrachlorte	10.46	166	209712	10.5100	ug/L	98
67)	13Diclorpropa	10.44	76	259452	9.9796	ug/L	96
69)	2Hexanone	10.56	43	807518	92.6981	ug/L	98
70)	Clorodibrmta	10.74	129	150590	9.8744	ug/L	99
71)	12Dibrometha	10.89	107	145419	9.9632	ug/L	99
72)	Chlorobenzen	11.58	112	472857	10.4187	ug/L	99
73)	1Clhexane	11.56	91	228898	10.4384	ug/L	98
74)	1112Tetclota	11.68	131	164991	10.2067	ug/L	98
75)	Ethylbenzene	11.74	91	739669	10.6493	ug/L	100
76)	m p-Xylene	11.90	106	578188	21.0164	ug/L	99
77)	o-Xylene	12.45	106	284579	10.5750	ug/L	93
78)	Styrene	12.46	104	447142	10.5951	ug/L	98
79)	Bromoform	12.69	173	97248	9.4115	ug/L	99
80)	Isopropylben	12.97	105	702078	10.8793	ug/L	98
81)	cyclohexanone	13.07	55	53130	135.7132	ug/L	98
84)	Bromobenzene	13.38	156	203362	10.0556	ug/L	93
85)	1122Tetrclta	13.36	83	194137	9.2871	ug/L	97
86)	123Triclproa	13.41	75	228885	9.2750	ug/L	97
87)	14dichloro2butene	13.45	53	42647	8.7706	ug/L	97
88)	n-Propylbenz	13.56	91	842347	10.7945	ug/L	97
89)	2chlorotolue	13.67	91	491728	10.0228	ug/L	96
90)	4chlorotolue	13.82	91	585398	10.3688	ug/L	98
91)	135Trimebenz	13.81	105	589386	10.6744	ug/L	98
92)	tbutylbenzen	14.28	119	524544	10.6525	ug/L	98
93)	124Trimetben	14.35	105	602017	10.9163	ug/L	96
94)	sbutylbenzen	14.60	105	748871	11.1040	ug/L	99
95)	13Diclorbenz	14.74	146	384437	10.3780	ug/L	98
96)	pIsopropylto	14.82	119	654359	11.0932	ug/L	96
97)	14dichlorobe	14.87	146	392962	10.0453	ug/L	99
98)	12dichlorobe	15.40	146	362794	10.0160	ug/L	97
99)	nButylbenzen	15.41	91	592296	10.7028	ug/L	98
100)	12dibromo3cl	16.50	157	40683	9.1234	ug/L	100
101)	135Trichlorobenzene	16.83	180	269281	10.1995	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

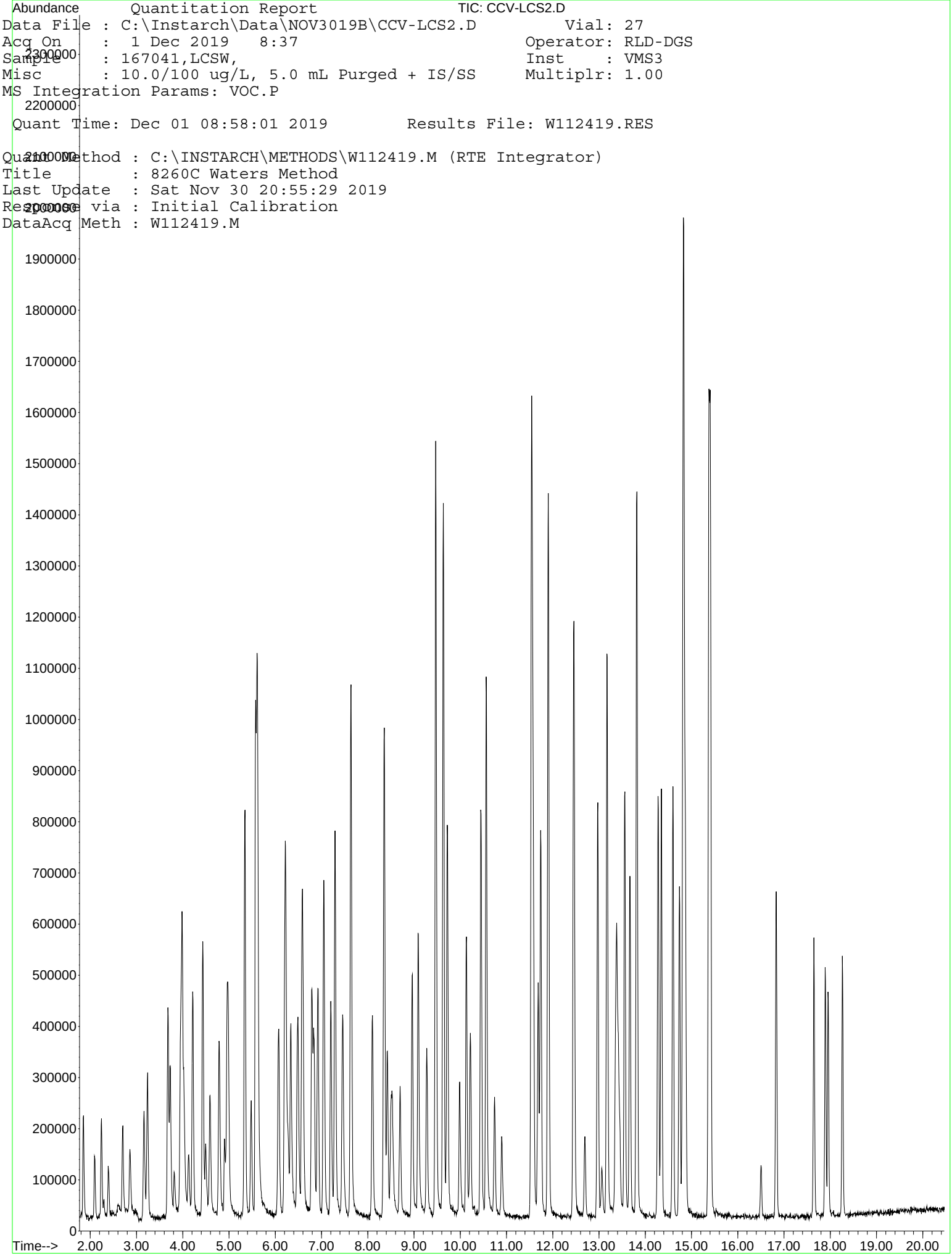
Data File : C:\Instarch\Data\NOV3019B\CCV-LCS2.D Vial: 27
Acq On : 1 Dec 2019 8:37 Operator: RLD-DGS
Sample : 167041,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 08:58:01 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sat Nov 30 20:55:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	214624	10.0435	ug/L	98
103)	Hexachlorobu	17.89	225	107921	10.4585	ug/L	98
104)	Naphthalene	17.95	128	429762	9.5037	ug/L	99
105)	123Trichlben	18.26	180	196032	10.0152	ug/L	97

(#) = qualifier out of range (m) = manual integration


Abundance
Quantitation Report
TIC: CCV-LCS2.D
Data File : C:\Instarch\Data\NOV3019B\CCV-LCS2.D Vial: 27
Acq On : 1 Dec 2019 8:37 Operator: RLD-DGS
Sample : 167041,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P
Quant Time: Dec 01 08:58:01 2019 Results File: W112419.RES
Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sat Nov 30 20:55:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
2300000
2200000
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400000
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200000
100000
0
Time-->
2.00
3.00
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14.00
15.00
16.00
17.00
18.00
19.00
20.00

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL
DOCUMENTS

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCS1.D Vial: 3
Acq On : 12 Nov 2019 17:19 Operator: RLD-DGS
Sample : 166497,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 17:40:09 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1045912	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	823112	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	450595	0.02	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	256562	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	53005	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.67	98	1046153	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	370441	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			

Target Compounds						Qvalue
2) Dichlorodi	1.81	85	125382	0.0090	mg/kg	98
3) Chloromethan	2.06	50	156815	0.0087	mg/kg	99
4) VinylChlorid	2.21	62	136579	0.0087	mg/kg	100
5) Bromomethane	2.68	94	78972	0.0093	mg/kg	97
6) Chloroethane	2.83	64	78860	0.0086	mg/kg	96
7) dichloroflmethane	3.14	67	206338	0.0090	mg/kg	98
8) Trichlorofma	3.21	101	183604	0.0093	mg/kg	99
9) Ethylether	3.66	59	107398	0.0098	mg/kg	97
10) dichlorotfluoroethan	3.68	67	122560	0.0088	mg/kg	94
11) propyleneoxide	3.72	58	176167	0.0958	mg/kg	98
12) Acrolein	3.81	56	107207	0.0440	mg/kg	90
13) 11dichlorthe	3.94	96	108378	0.0090	mg/kg	95
14) Trichlorotfluoroeth	3.97	101	207085	0.0186	mg/kg	98
15) Acetone	4.04	43	316295	0.0907	mg/kg	100
16) Iodomethane	4.12	142	152169	0.0215	mg/kg	98
17) Carbon Dislf	4.20	76	631465	0.0177	mg/kg	100
18) allylchloride	4.43	41	430970	0.0177	mg/kg	98
19) methylacetate	4.51	74	35050	0.0091	mg/kg	95
20) Methylchlorid	4.60	84	141407	0.0091	mg/kg	94
21) Acrylonitrile	4.93	53	166358	0.0440	mg/kg	96
22) t12dichlorte	4.95	96	121314	0.0088	mg/kg	97
23) tbutylalcohol	4.80	59	625325	0.4257	mg/kg	98
24) MtBE	4.98	73	317128	0.0096	mg/kg	99
25) Hexane	5.32	57	369508	0.0183	mg/kg	99
26) 11dichlorota	5.49	63	221780	0.0089	mg/kg	97
27) Vinylacetate	5.59	43	1901142	0.0920	mg/kg	99
28) chloroprene	5.61	53	371619	0.0187	mg/kg	98
29) Diisopether	5.61	45	445432	0.0096	mg/kg#	74
30) ETBE	6.07	59	381528	0.0095	mg/kg	99
31) 22dichloropr	6.22	77	170684	0.0091	mg/kg	99
32) c12dichlorte	6.24	96	140372	0.0092	mg/kg	96
33) 2Butanone	6.27	72	99953	0.0868	mg/kg	95
34) propionitrile	6.33	54	130519	0.0868	mg/kg	100
35) Ethylacetate	6.35	88	16412	0.0457	mg/kg#	88
36) methacrylonitrile	6.52	67	78503	0.0181	mg/kg	94
37) Bromochlorma	6.52	128	64604	0.0095	mg/kg	99
38) Tetrahydofur	6.59	42	327559	0.0905	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCS1.D Vial: 3
Acq On : 12 Nov 2019 17:19 Operator: RLD-DGS
Sample : 166497,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 17:40:09 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	210652	0.0090 mg/kg	98
40)	111trichlota	6.85	97	188435	0.0091 mg/kg	96
42)	Cyclohexane	6.92	56	202808	0.0093 mg/kg	98
43)	Carbtetraclo	7.06	119	160030	0.0094 mg/kg	97
44)	11dicloprope	7.07	110	57158	0.0087 mg/kg	99
46)	Benzene	7.31	78	488773	0.0090 mg/kg	99
47)	12dichlorota	7.34	62	148660	0.0088 mg/kg	99
48)	TAME	7.46	73	324175	0.0097 mg/kg	97
49)	trichloroete	8.12	95	124174	0.0089 mg/kg	97
50)	methylcyclohexane	8.36	83	225739	0.0098 mg/kg	98
51)	12dicloropra	8.39	63	134516	0.0090 mg/kg	94
52)	23dicl1propene	8.46	75	174749	0.0092 mg/kg	97
53)	Dibromometha	8.55	93	72567	0.0096 mg/kg	94
54)	methylmethacrylate	8.57	69	63098	0.0089 mg/kg	95
55)	14dioxane	8.59	88	54643	0.4266 mg/kg	93
56)	Bromodiclrma	8.74	83	160717	0.0092 mg/kg	98
57)	2Nitropropane	9.02	43	284305	0.0902 mg/kg	97
58)	c13dicloproe	9.32	75	193296	0.0094 mg/kg	99
59)	4Meth2Pentan	9.51	43	1156884	0.0952 mg/kg	99
61)	Toluene	9.75	92	321576	0.0089 mg/kg	97
62)	t13Dicloprop	10.04	75	156194	0.0092 mg/kg	97
63)	ethylmethacrylate	10.17	69	276403	0.0186 mg/kg	98
64)	112Triclotha	10.27	83	89992	0.0091 mg/kg	99
65)	Tetrachlorte	10.48	166	141174	0.0087 mg/kg	98
66)	13Diclorpropa	10.49	76	175982	0.0094 mg/kg	99
68)	2Hexanone	10.61	43	794867	0.0950 mg/kg	98
69)	Clorodibrmta	10.79	129	126675	0.0091 mg/kg	99
70)	12Dibrometha	10.95	107	113473	0.0094 mg/kg	94
71)	Chlorobenzen	11.63	112	349645	0.0089 mg/kg	97
72)	1Clhexane	11.59	91	157324	0.0091 mg/kg	100
73)	1112Tetclota	11.73	131	132898	0.0091 mg/kg	98
74)	Ethylbenzene	11.78	91	584520	0.0091 mg/kg	100
75)	m p-Xylene	11.94	106	465424	0.0184 mg/kg	97
76)	o-Xylene	12.49	106	234930	0.0091 mg/kg	97
77)	Styrene	12.51	104	370236	0.0093 mg/kg	100
78)	Bromoform	12.76	173	80815	0.0092 mg/kg	96
79)	Isopropylben	13.01	105	594782	0.0091 mg/kg	100
81)	cyclohexanone	13.13	55	82152	0.1700 mg/kg	99
83)	Bromobenzene	13.44	156	167917	0.0093 mg/kg	99
84)	1122Tetrclta	13.43	83	145128	0.0092 mg/kg	98
85)	123Triclproa	13.49	75	143675	0.0077 mg/kg	89
86)	14dichloro2butene	13.52	53	40031	0.0087 mg/kg	86
87)	n-Propylbenz	13.60	91	660483	0.0093 mg/kg	100
88)	2chlorotolue	13.72	91	397427	0.0093 mg/kg	100
89)	4chlorotolue	13.87	91	448942	0.0093 mg/kg	96
90)	135Trimebenz	13.86	105	510319	0.0095 mg/kg	97
91)	tbutylbenzen	14.32	119	440939	0.0093 mg/kg	100
92)	124Trimetben	14.40	105	500142	0.0091 mg/kg	99
93)	sbutylbenzen	14.64	105	651416	0.0095 mg/kg	100
94)	13Diclorbenz	14.80	146	314765	0.0093 mg/kg	98
95)	pIsopropylto	14.86	119	551463	0.0096 mg/kg	100
96)	14dichlorobe	14.93	146	318960	0.0095 mg/kg	96
97)	12dichlorobe	15.47	146	302866	0.0093 mg/kg	98
98)	nButylbenzen	15.46	91	486514	0.0097 mg/kg	99
99)	12dibromo3cl	16.57	157	31200	0.0092 mg/kg	100
100)	135Trichlorobenzene	16.89	180	242356	0.0098 mg/kg	99
101)	124Trichlobe	17.70	180	214763	0.0097 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCS1.D Vial: 3
Acq On : 12 Nov 2019 17:19 Operator: RLD-DGS
Sample : 166497,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 17:40:09 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

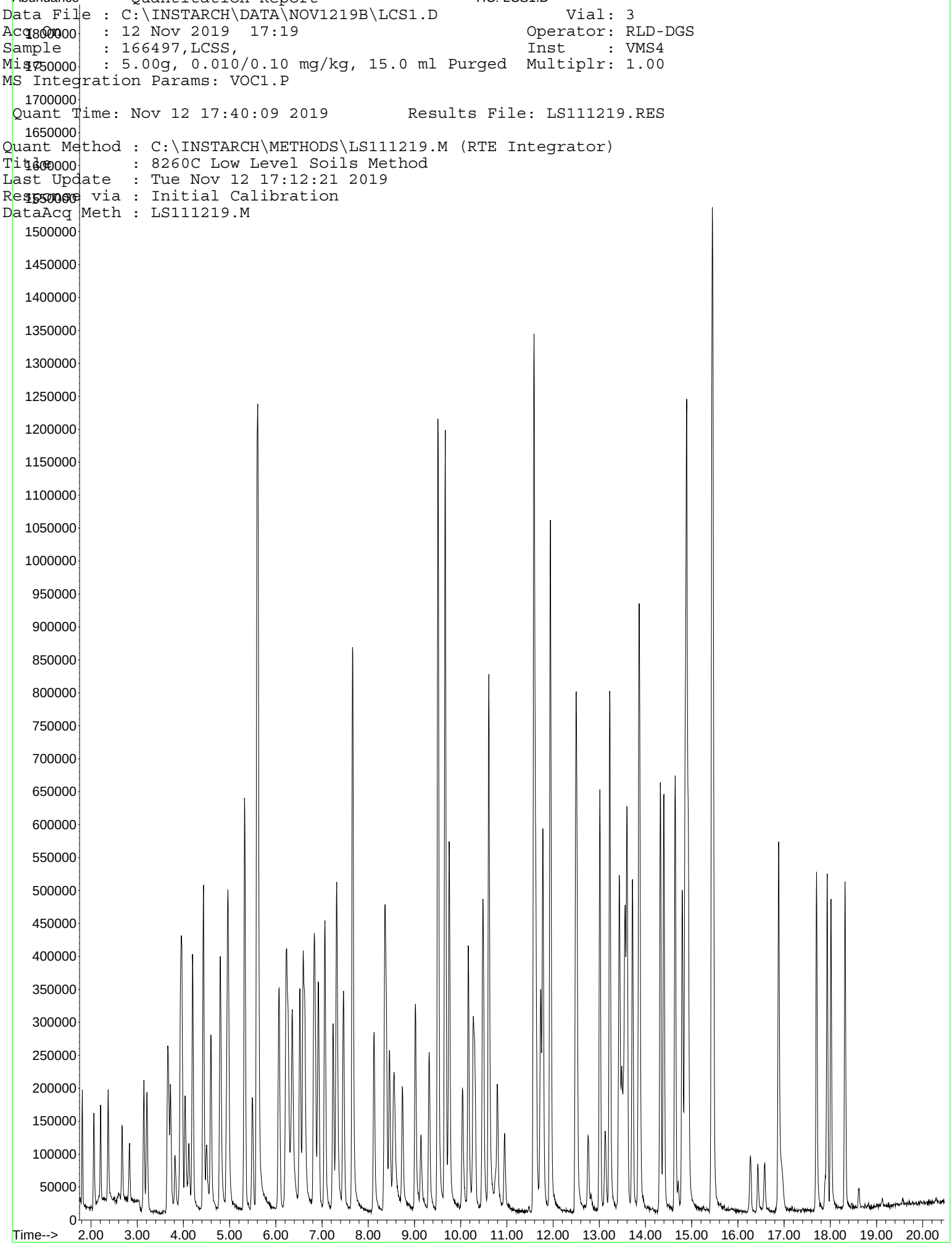
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	129286	0.0096	mg/kg	98
103)	Naphthalene	18.01	128	495239	0.0099	mg/kg	99
104)	123Trichlben	18.32	180	211976	0.0098	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219B\LCS1.D Vial: 3
Acq On : 12 Nov 2019 17:19 Operator: RLD-DGS
Sample : 166497,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 17:40:09 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\MB-ICB1.D Vial: 5
Acq On : 12 Nov 2019 18:17 Operator: RLD-DGS
Sample : 166497,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 18:37:53 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	1044903	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	820214	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	458939	0.02	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	250770	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	54332	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.67	98	1042258	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	370203	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			

Target Compounds						Qvalue
2) Dichlorodi	1.81	85	2547	N.D.		
3) Chloromethan	2.06	50	2733	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.68	94	4257	Below Cal	#	54
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.06	43	18629	N.D.		
16) Iodomethane	4.12	142	6151	0.0019	mg/kg#	73
17) Carbon Dislf	4.20	76	2687	N.D.		
18) allylchloride	0.00	41	0	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	16370	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.80	59	3572	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.33	57	5161	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\MB-ICB1.D Vial: 5
Acq On : 12 Nov 2019 18:17 Operator: RLD-DGS
Sample : 166497,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 18:37:53 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	1501	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.08	43	1308	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	7024	N.D.	
61)	Toluene	9.75	92	1198	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	0.00	83	0	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.57	43	1450	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1928	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.79	91	3275	N.D.	
75)	m p-Xylene	11.94	106	2296	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	12.52	104	5881	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	13.02	105	1668	N.D.	
81)	cyclohexanone	13.16	55	1815	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	3684	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.62	91	3129	N.D.	
88)	2chlorotolue	13.62	91	3015	N.D.	
89)	4chlorotolue	13.89	91	1279	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	14.33	119	1373	N.D.	
92)	124Trimetben	14.39	105	5614	N.D.	
93)	sbutylbenzen	14.65	105	2311	N.D.	
94)	13Diclorbenz	14.81	146	2080	N.D.	
95)	pIsopropylto	14.87	119	3507	N.D.	
96)	14dichlorobe	14.91	146	2412	N.D.	
97)	12dichlorobe	15.47	146	1983	N.D.	
98)	nButylbenzen	15.47	91	3933	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	16.87	180	2127	N.D.	
101)	124Trichlobe	17.72	180	2646	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\MB-ICB1.D Vial: 5
Acq On : 12 Nov 2019 18:17 Operator: RLD-DGS
Sample : 166497,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 18:37:53 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	17.93	225	1005	N.D.	
103) Naphthalene	18.02	128	13602	N.D.	
104) 123Trichlben	18.33	180	3658	N.D.	

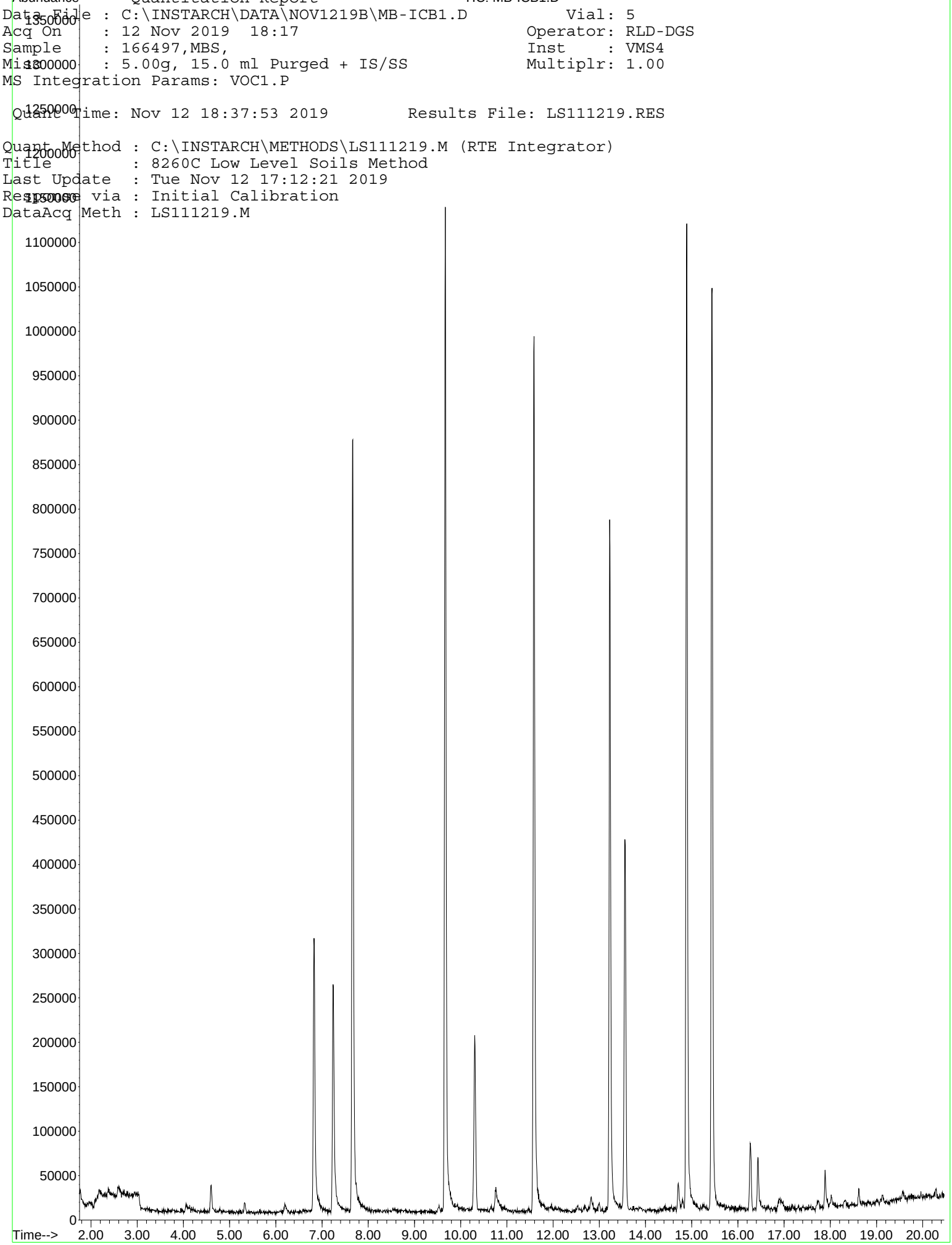
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: MB-ICB1.D

Data File : C:\INSTARCH\DATA\NOV1219B\MB-ICB1.D Vial: 5
Acq On : 12 Nov 2019 18:17 Operator: RLD-DGS
Sample : 166497,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 12 18:37:53 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181MS.D Vial: 24
Acq On : 13 Nov 2019 3:28 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 6.09g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 03:49:14 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	967927	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	738582	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	336439	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	249491	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.24	102	56150	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.67	98	976742	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	305380	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 110 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	180521	0.0140	mg/kg	95
3) Chloromethan	2.06	50	194269	0.0117	mg/kg	99
4) VinylChlorid	2.21	62	182738	0.0126	mg/kg	97
5) Bromomethane	2.68	94	105839	0.0144	mg/kg	98
6) Chloroethane	2.83	64	95535	0.0113	mg/kg	98
7) dichloroflmethane	3.14	67	254839	0.0121	mg/kg	99
8) Trichlorofma	3.21	101	232479	0.0127	mg/kg	98
9) Ethylether	3.66	59	91876	0.0091	mg/kg	95
10) dichlorotfluoroethan	3.68	67	159035	0.0123	mg/kg	97
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.82	56	60106	0.0266	mg/kg	94
13) 11dichlorthe	3.94	96	131443	0.0117	mg/kg	95
14) Trichlorotfluoroeth	3.97	101	257603	0.0249	mg/kg	98
15) Acetone	4.04	43	180909	0.0561	mg/kg	99
16) Iodomethane	4.12	142	140142	0.0214	mg/kg	99
17) Carbon Dislf	4.20	76	785973	0.0238	mg/kg	100
18) allylchloride	4.43	41	517338	0.0229	mg/kg	98
19) methylacetate	4.50	74	25295	0.0071	mg/kg	99
20) Methylchlorid	4.59	84	158844	0.0113	mg/kg	99
21) Acrylonitrile	4.94	53	112663	0.0322	mg/kg	99
22) t12dichlorte	4.96	96	138116	0.0108	mg/kg	99
23) tbutylalcohol	4.80	59	287233	0.2113	mg/kg	97
24) MtBE	4.98	73	282397	0.0092	mg/kg	98
25) Hexane	5.33	57	384500	0.0206	mg/kg	99
26) 11dichlorota	5.49	63	247151	0.0107	mg/kg	98
27) Vinylacetate	5.59	43	1819990	0.0952	mg/kg	99
28) chloroprene	5.61	53	432042	0.0235	mg/kg	98
29) Diisopether	5.62	45	452299	0.0105	mg/kg#	67
30) ETBE	6.07	59	373801	0.0101	mg/kg	97
31) 22dichloropr	6.22	77	199585	0.0116	mg/kg	99
32) c12dichlorte	6.24	96	144605	0.0102	mg/kg	98
33) 2Butanone	6.27	72	64703	0.0607	mg/kg	90
34) propionitrile	6.34	54	62615	0.0450	mg/kg	97
35) Ethylacetate	6.36	88	11111	0.0334	mg/kg#	81
36) methacrylonitrile	6.52	67	60992	0.0152	mg/kg	97
37) Bromochlorma	6.53	128	61819	0.0098	mg/kg	96
38) Tetrahydofur	6.60	42	224167	0.0669	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181MS.D Vial: 24
Acq On : 13 Nov 2019 3:28 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 6.09g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 03:49:14 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	225021	0.0104 mg/kg	96
40)	111trichlota	6.86	97	211540	0.0111 mg/kg	96
42)	Cyclohexane	6.92	56	234784	0.0117 mg/kg	98
43)	Carbtetraclo	7.07	119	181689	0.0115 mg/kg	99
44)	11dicloprope	7.07	110	68452	0.0113 mg/kg	99
46)	Benzene	7.32	78	516271	0.0103 mg/kg	97
47)	12dichlorota	7.34	62	142598	0.0092 mg/kg	97
48)	TAME	7.47	73	292754	0.0095 mg/kg	98
49)	trichloroete	8.13	95	141239	0.0110 mg/kg	96
50)	methylcyclohexane	8.36	83	216836	0.0101 mg/kg	97
51)	12dicloropra	8.40	63	135513	0.0098 mg/kg	93
52)	23dicl1propene	8.46	75	172523	0.0098 mg/kg	95
53)	Dibromometha	8.55	93	63414	0.0091 mg/kg	92
54)	methylmethacrylate	8.57	69	46262	0.0071 mg/kg	99
55)	14dioxane	8.61	88	9609	0.0811 mg/kg	97
56)	Bromodiclrma	8.74	83	148769	0.0092 mg/kg	98
57)	2Nitropropane	9.02	43	191927	0.0658 mg/kg	97
58)	c13dicloproe	9.32	75	169117	0.0089 mg/kg	98
59)	4Meth2Pentan	9.51	43	876411	0.0779 mg/kg	97
61)	Toluene	9.75	92	333457	0.0100 mg/kg	99
62)	t13Dicloprop	10.04	75	127713	0.0081 mg/kg	97
63)	ethylmethacrylate	10.17	69	214063	0.0156 mg/kg	99
64)	112Triclotha	10.27	83	78072	0.0085 mg/kg	96
65)	Tetrachlorte	10.48	166	145395	0.0096 mg/kg	99
66)	13Diclorpropa	10.50	76	141177	0.0082 mg/kg	99
68)	2Hexanone	10.61	43	516881	0.0689 mg/kg	98
69)	Clorodibrmta	10.80	129	104143	0.0083 mg/kg	99
70)	12Dibrometha	10.96	107	85844	0.0080 mg/kg	95
71)	Chlorobenzen	11.63	112	307878	0.0087 mg/kg	100
72)	1Clhexane	11.59	91	143716	0.0093 mg/kg	98
73)	1112Tetclota	11.73	131	113038	0.0086 mg/kg	99
74)	Ethylbenzene	11.78	91	537254	0.0093 mg/kg	99
75)	m p-Xylene	11.94	106	402618	0.0177 mg/kg	96
76)	o-Xylene	12.50	106	193748	0.0084 mg/kg	99
77)	Styrene	12.51	104	261618	0.0073 mg/kg	94
78)	Bromoform	12.76	173	55149	0.0070 mg/kg	97
79)	Isopropylben	13.01	105	500639	0.0086 mg/kg	99
81)	cyclohexanone	13.14	55	19125	0.0530 mg/kg	97
83)	Bromobenzene	13.44	156	112502	0.0083 mg/kg	94
84)	1122Tetrclta	13.43	83	98755	0.0083 mg/kg	97
85)	123Triclproa	13.49	75	143518	0.0104 mg/kg	92
86)	14dichloro2butene	13.52	53	24377	0.0071 mg/kg#	33
87)	n-Propylbenz	13.60	91	482997	0.0091 mg/kg	97
88)	2chlorotolue	13.72	91	272888	0.0085 mg/kg	99
89)	4chlorotolue	13.88	91	295312	0.0082 mg/kg	97
90)	135Trimebenz	13.86	105	337166	0.0084 mg/kg	97
91)	tbutylbenzen	14.33	119	324995	0.0092 mg/kg	100
92)	124Trimetben	14.40	105	327612	0.0080 mg/kg	99
93)	sbutylbenzen	14.64	105	419163	0.0082 mg/kg	98
94)	13Diclorbenz	14.80	146	166665	0.0066 mg/kg	97
95)	pIsopropylto	14.86	119	349259	0.0081 mg/kg	98
96)	14dichlorobe	14.93	146	168520	0.0067 mg/kg	97
97)	12dichlorobe	15.47	146	148250	0.0061 mg/kg	98
98)	nButylbenzen	15.46	91	262715	0.0070 mg/kg	100
99)	12dibromo3cl	16.58	157	12919	0.0051 mg/kg	96
100)	135Trichlorobenzene	16.89	180	86848	0.0047 mg/kg	96
101)	124Trichlobe	17.71	180	54017	0.0033 mg/kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181MS.D Vial: 24
Acq On : 13 Nov 2019 3:28 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 6.09g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 03:49:14 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

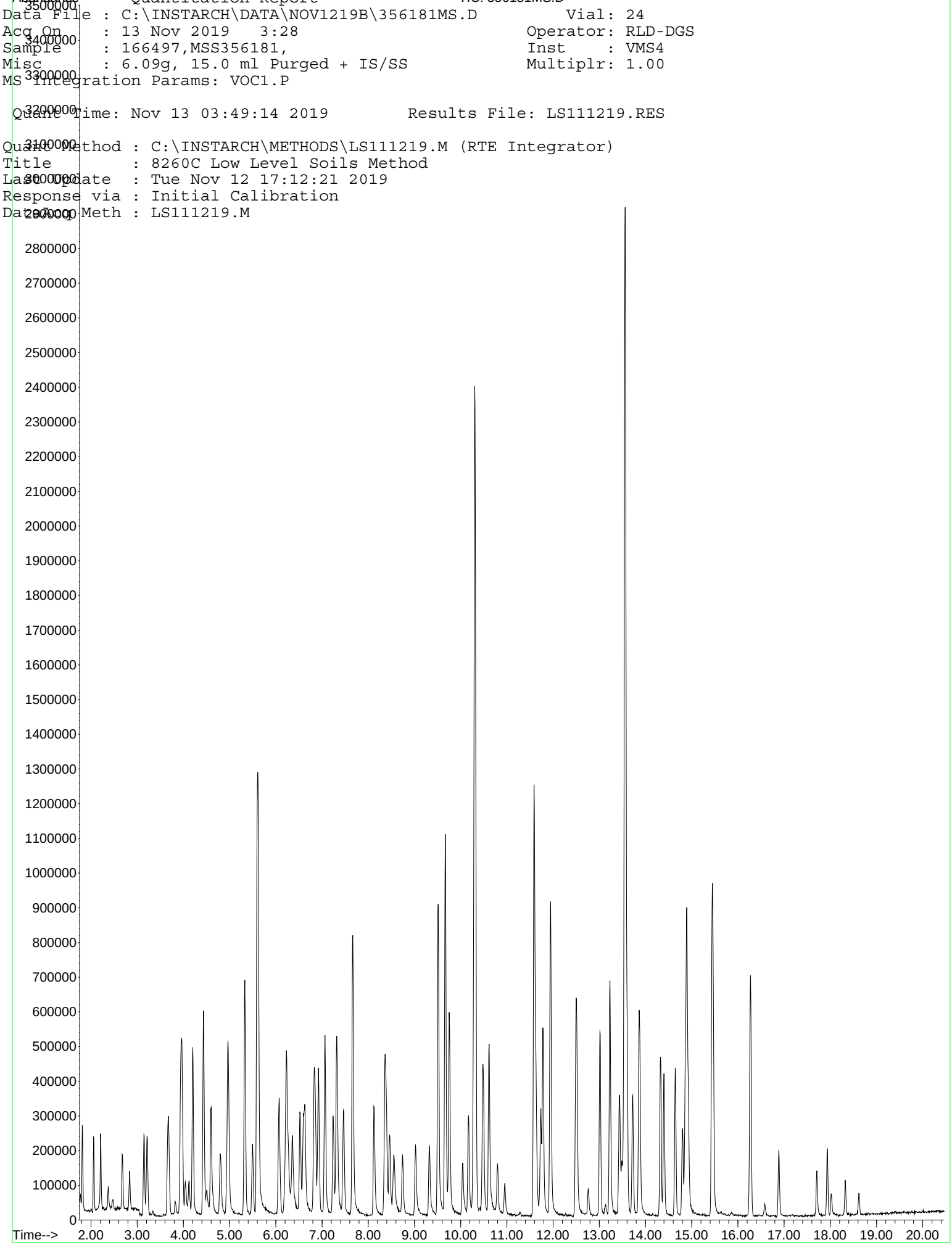
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	17.93	225	49503	0.0049	mg/kg	96
103) Naphthalene	18.03	128	73189	0.0020	mg/kg	96
104) 123Trichlben	18.32	180	39725	0.0024	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1219B\356181MS.D Vial: 24
Acq On : 13 Nov 2019 3:28 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 6.09g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 03:49:14 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
Data Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181SD.D Vial: 25
Acq On : 13 Nov 2019 3:57 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 6.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 04:18:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	216323	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	181454	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	108356	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	63640	0.024	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 120 %#			
45) SURR12DCAd4	7.25	102	14851	0.026	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 130 %			
60) SURRd8Tolule	9.67	98	222473	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.23	95	84164	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	31268	0.0109	mg/kg	90
3) Chloromethan	2.06	50	36430	0.0098	mg/kg	99
4) VinylChlorid	2.21	62	35486	0.0109	mg/kg	100
5) Bromomethane	2.68	94	21499	0.0129	mg/kg	86
6) Chloroethane	2.83	64	18012	0.0095	mg/kg	90
7) dichloroflmethane	3.15	67	47844	0.0101	mg/kg	97
8) Trichlorofma	3.21	101	41963	0.0103	mg/kg	97
9) Ethylether	3.66	59	23068	0.0102	mg/kg	98
10) dichlorotfluoroethan	3.68	67	29816	0.0103	mg/kg	95
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.83	56	32917	0.0653	mg/kg	91
13) 11dichlorthe	3.94	96	27080	0.0108	mg/kg	96
14) Trichlorotfluoroeth	3.97	101	50540	0.0219	mg/kg	95
15) Acetone	4.05	43	137440	0.1906	mg/kg	94
16) Iodomethane	4.12	142	24472	0.0178	mg/kg	97
17) Carbon Dislf	4.20	76	146376	0.0198	mg/kg	99
18) allylchloride	4.43	41	94698	0.0188	mg/kg	96
19) methylacetate	4.51	74	14946	0.0187	mg/kg	74
20) Methylchlorid	4.59	84	33240	0.0105	mg/kg	96
21) Acrylonitrile	4.94	53	66158	0.0846	mg/kg	98
22) t12dichlorte	4.96	96	26380	0.0092	mg/kg	97
23) tbutylalcohol	4.80	59	336711	1.1083	mg/kg	98
24) MtBE	4.98	73	73088	0.0106	mg/kg	96
25) Hexane	5.33	57	92828	0.0222	mg/kg	98
26) 11dichlorota	5.49	63	47969	0.0093	mg/kg	98
27) Vinylacetate	5.60	43	497343	0.1164	mg/kg	98
28) chloroprene	5.62	53	78066	0.0190	mg/kg	97
29) Diisopether	5.62	45	92009	0.0096	mg/kg#	84
30) ETBE	6.06	59	80268	0.0097	mg/kg	96
31) 22dichloropr	6.22	77	41679	0.0108	mg/kg	92
32) c12dichlorte	6.25	96	28928	0.0091	mg/kg	95
33) 2Butanone	6.27	72	43861	0.1842	mg/kg	100
34) propionitrile	6.34	54	57524	0.1849	mg/kg	96
35) Ethylacetate	6.38	88	6014	0.0810	mg/kg#	86
36) methacrylonitrile	6.53	67	26442	0.0295	mg/kg	97
37) Bromochlorma	6.53	128	12978	0.0092	mg/kg#	90
38) Tetrahydofur	6.59	42	154317	0.2061	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181SD.D Vial: 25
Acq On : 13 Nov 2019 3:57 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 6.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 04:18:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	45820	0.0095 mg/kg	92
40)	111trichlota	6.85	97	38980	0.0091 mg/kg	99
42)	Cyclohexane	6.92	56	47162	0.0105 mg/kg	98
43)	Carbtetraclo	7.06	119	35679	0.0101 mg/kg	97
44)	11dicloprope	7.07	110	11451	0.0085 mg/kg	94
46)	Benzene	7.32	78	103728	0.0093 mg/kg	97
47)	12dichlorota	7.34	62	36545	0.0105 mg/kg	95
48)	TAME	7.46	73	67447	0.0098 mg/kg	96
49)	trichloroete	8.13	95	27288	0.0095 mg/kg	92
50)	methylcyclohexane	8.36	83	49049	0.0102 mg/kg	95
51)	12dicloropra	8.40	63	29830	0.0096 mg/kg#	93
52)	23dicl1propene	8.47	75	34526	0.0087 mg/kg	95
53)	Dibromometha	8.55	93	17116	0.0110 mg/kg	97
54)	methylmethacrylate	8.58	69	16995	0.0116 mg/kg#	70
55)	14dioxane	8.59	88	17878	0.6748 mg/kg	89
56)	Bromodiclrma	8.74	83	31610	0.0088 mg/kg	98
57)	2Nitropropane	9.03	43	109239	0.1676 mg/kg	94
58)	c13dicloproe	9.33	75	35328	0.0083 mg/kg	99
59)	4Meth2Pentan	9.51	43	438849	0.1746 mg/kg	99
61)	Toluene	9.76	92	66517	0.0089 mg/kg	95
62)	t13Dicloprop	10.05	75	30836	0.0088 mg/kg	93
63)	ethylmethacrylate	10.17	69	63014	0.0205 mg/kg	93
64)	112Triclotha	10.27	83	24223	0.0118 mg/kg	97
65)	Tetrachlorte	10.48	166	32731	0.0097 mg/kg	95
66)	13Diclorpropa	10.51	76	39721	0.0103 mg/kg	96
68)	2Hexanone	10.61	43	312829	0.1696 mg/kg	98
69)	Clorodibrmta	10.80	129	26113	0.0085 mg/kg	97
70)	12Dibrometha	10.96	107	26556	0.0100 mg/kg	92
71)	Chlorobenzen	11.63	112	71681	0.0082 mg/kg	97
72)	1Clhexane	11.60	91	34282	0.0090 mg/kg	96
73)	1112Tetclota	11.73	131	22612	0.0070 mg/kg	86
74)	Ethylbenzene	11.78	91	116463	0.0082 mg/kg	97
75)	m p-Xylene	11.94	106	90353	0.0162 mg/kg	98
76)	o-Xylene	12.50	106	44867	0.0079 mg/kg	98
77)	Styrene	12.52	104	64065	0.0073 mg/kg	99
78)	Bromoform	12.76	173	19567	0.0101 mg/kg	97
79)	Isopropylben	13.01	105	121468	0.0085 mg/kg	99
81)	cyclohexanone	13.13	55	30352	0.2611 mg/kg	89
83)	Bromobenzene	13.44	156	31628	0.0073 mg/kg#	78
84)	1122Tetrclta	13.43	83	40223	0.0105 mg/kg	93
85)	123Triclproa	13.49	75	57121	0.0128 mg/kg	89
86)	14dichloro2butene	13.54	53	11603	0.0105 mg/kg#	65
87)	n-Propylbenz	13.60	91	129803	0.0076 mg/kg	96
88)	2chlorotolue	13.72	91	79257	0.0077 mg/kg	99
89)	4chlorotolue	13.88	91	88976	0.0077 mg/kg	100
90)	135Trimebenz	13.85	105	92814	0.0072 mg/kg	99
91)	tbutylbenzen	14.33	119	87443	0.0077 mg/kg	98
92)	124Trimetben	14.40	105	96171	0.0073 mg/kg	98
93)	sbutylbenzen	14.65	105	124608	0.0075 mg/kg	98
94)	13Diclorbenz	14.80	146	61403	0.0075 mg/kg	98
95)	pIsopropylto	14.86	119	108731	0.0079 mg/kg	99
96)	14dichlorobe	14.93	146	59932	0.0074 mg/kg	95
97)	12dichlorobe	15.47	146	59712	0.0076 mg/kg	98
98)	nButylbenzen	15.46	91	90143	0.0075 mg/kg	98
99)	12dibromo3cl	16.58	157	9606	0.0117 mg/kg	99
100)	135Trichlorobenzene	16.88	180	42679	0.0071 mg/kg	98
101)	124Trichlobe	17.71	180	34315	0.0064 mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181SD.D Vial: 25
Acq On : 13 Nov 2019 3:57 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 6.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 04:18:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	17.93	225	22913	0.0071 mg/kg	96
103) Naphthalene	18.03	128	76897	0.0064 mg/kg	98
104) 123Trichlben	18.32	180	32792	0.0063 mg/kg	99

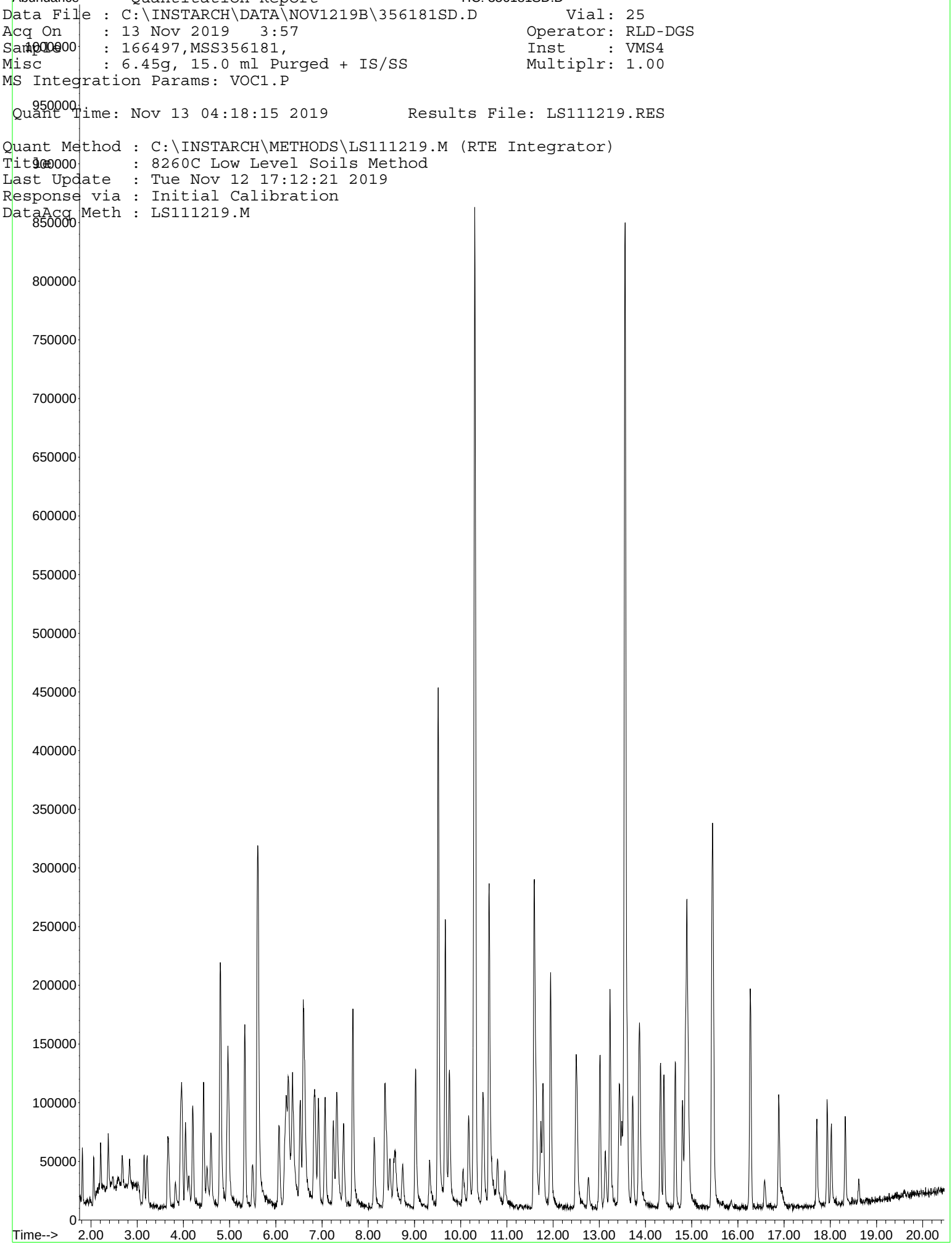
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356181SD.D

Data File : C:\INSTARCH\DATA\NOV1219B\356181SD.D Vial: 25
Acq On : 13 Nov 2019 3:57 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 6.45g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 04:18:15 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Nov 12 17:12:21 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCS2.D Vial: 29
Acq On : 13 Nov 2019 8:12 Operator: RLD-DGS
Sample : 166498,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 08:32:36 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	1003552	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	790084	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	437807	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	248221	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.24	102	55479	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.67	98	1013643	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	360708	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	115267	0.0086	mg/kg	95
3) Chloromethan	2.06	50	158299	0.0092	mg/kg	99
4) VinylChlorid	2.21	62	133108	0.0088	mg/kg	98
5) Bromomethane	2.68	94	55062	0.0062	mg/kg	99
6) Chloroethane	2.83	64	74248	0.0085	mg/kg	99
7) dichloroflmethane	3.14	67	188631	0.0086	mg/kg	99
8) Trichlorofma	3.21	101	172145	0.0091	mg/kg	99
9) Ethylether	3.65	59	97534	0.0093	mg/kg	95
10) dichlorotfluoroethan	3.68	67	118177	0.0088	mg/kg	95
11) propyleneoxide	3.72	58	159198	0.0902	mg/kg	99
12) Acrolein	3.83	56	96399	0.0412	mg/kg	87
13) 11dichlorthe	3.93	96	101096	0.0087	mg/kg	94
14) Trichlorotfluoroeth	3.96	101	195245	0.0182	mg/kg	96
15) Acetone	4.04	43	293902	0.0878	mg/kg	99
16) Iodomethane	4.12	142	167315	0.0237	mg/kg	99
17) Carbon Dislf	4.20	76	600063	0.0175	mg/kg	100
18) allylchloride	4.43	41	412150	0.0176	mg/kg	99
19) methylacetate	4.50	74	31779	0.0086	mg/kg	88
20) Methylchlorid	4.59	84	133123	0.0089	mg/kg	97
21) Acrylonitrile	4.93	53	148534	0.0409	mg/kg	97
22) t12dichlorte	4.96	96	113693	0.0086	mg/kg	97
23) tbutylalcohol	4.80	59	578372	0.4104	mg/kg	99
24) MtBE	4.98	73	294819	0.0093	mg/kg	97
25) Hexane	5.33	57	326399	0.0168	mg/kg	97
26) 11dichlorota	5.49	63	216238	0.0090	mg/kg	96
27) Vinylacetate	5.59	43	1797839	0.0907	mg/kg	99
28) chloroprene	5.61	53	343700	0.0180	mg/kg	98
29) Diisopether	5.61	45	423564	0.0095	mg/kg#	74
30) ETBE	6.07	59	356667	0.0093	mg/kg	97
31) 22dichloropr	6.22	77	160753	0.0090	mg/kg	99
32) c12dichlorte	6.24	96	131710	0.0090	mg/kg	97
33) 2Butanone	6.27	72	95057	0.0861	mg/kg	91
34) propionitrile	6.33	54	115791	0.0802	mg/kg	98
35) Ethylacetate	6.36	88	15087	0.0438	mg/kg#	84
36) methacrylonitrile	6.52	67	74824	0.0180	mg/kg	95
37) Bromochlorma	6.53	128	63539	0.0097	mg/kg	97
38) Tetrahydofur	6.59	42	302347	0.0870	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCS2.D Vial: 29
Acq On : 13 Nov 2019 8:12 Operator: RLD-DGS
Sample : 166498,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 08:32:36 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	208496	0.0093 mg/kg	93
40)	111trichlota	6.86	97	170598	0.0086 mg/kg	98
42)	Cyclohexane	6.93	56	187468	0.0090 mg/kg	98
43)	Carbtetraclo	7.06	119	145832	0.0089 mg/kg	99
44)	11dicloprope	7.07	110	53224	0.0085 mg/kg	99
46)	Benzene	7.32	78	462958	0.0089 mg/kg	97
47)	12dichlorota	7.34	62	149823	0.0093 mg/kg	96
48)	TAME	7.46	73	291927	0.0091 mg/kg	99
49)	trichloroete	8.13	95	117614	0.0088 mg/kg	97
50)	methylcyclohexane	8.36	83	202841	0.0091 mg/kg	99
51)	12dicloropra	8.39	63	134491	0.0094 mg/kg	96
52)	23dicl1propene	8.46	75	162726	0.0089 mg/kg	96
53)	Dibromometha	8.55	93	68088	0.0094 mg/kg	96
54)	methylmethacrylate	8.57	69	60807	0.0090 mg/kg	94
55)	14dioxane	8.58	88	48000	0.3905 mg/kg	98
56)	Bromodiclrma	8.74	83	153888	0.0092 mg/kg	97
57)	2Nitropropane	9.02	43	256876	0.0849 mg/kg	96
58)	c13dicloproe	9.32	75	182993	0.0093 mg/kg	98
59)	4Meth2Pentan	9.51	43	1083012	0.0929 mg/kg	98
61)	Toluene	9.75	92	301268	0.0087 mg/kg	100
62)	t13Dicloprop	10.04	75	150826	0.0093 mg/kg	98
63)	ethylmethacrylate	10.17	69	262465	0.0184 mg/kg	99
64)	112Triclotha	10.27	83	86200	0.0091 mg/kg#	86
65)	Tetrachlorte	10.48	166	133653	0.0085 mg/kg	99
66)	13Diclorpropa	10.49	76	169769	0.0095 mg/kg	97
68)	2Hexanone	10.61	43	737514	0.0918 mg/kg	99
69)	Clorodibrmta	10.79	129	120654	0.0090 mg/kg	99
70)	12Dibrometha	10.96	107	106228	0.0092 mg/kg	97
71)	Chlorobenzen	11.62	112	325727	0.0086 mg/kg	98
72)	1Clhexane	11.59	91	142693	0.0086 mg/kg	96
73)	1112Tetclota	11.73	131	122612	0.0087 mg/kg	99
74)	Ethylbenzene	11.78	91	544534	0.0089 mg/kg	99
75)	m p-Xylene	11.94	106	419130	0.0172 mg/kg	99
76)	o-Xylene	12.50	106	217790	0.0088 mg/kg	99
77)	Styrene	12.51	104	342709	0.0090 mg/kg	99
78)	Bromoform	12.76	173	73779	0.0087 mg/kg	96
79)	Isopropylben	13.01	105	553823	0.0089 mg/kg	99
81)	cyclohexanone	13.13	55	75492	0.1608 mg/kg	100
83)	Bromobenzene	13.44	156	155423	0.0088 mg/kg	97
84)	1122Tetrclta	13.43	83	133387	0.0087 mg/kg	95
85)	123Triclproa	13.48	75	175331	0.0097 mg/kg	96
86)	14dichloro2butene	13.52	53	39528	0.0088 mg/kg#	75
87)	n-Propylbenz	13.60	91	585973	0.0085 mg/kg	98
88)	2chlorotolue	13.72	91	359882	0.0086 mg/kg	99
89)	4chlorotolue	13.88	91	413121	0.0088 mg/kg	96
90)	135Trimebenz	13.86	105	462919	0.0089 mg/kg	98
91)	tbutylbenzen	14.32	119	403521	0.0088 mg/kg	100
92)	124Trimetben	14.40	105	458154	0.0086 mg/kg	100
93)	sbutylbenzen	14.64	105	592559	0.0089 mg/kg	99
94)	13Diclorbenz	14.80	146	285982	0.0087 mg/kg	99
95)	pIsopropylto	14.86	119	495985	0.0089 mg/kg	100
96)	14dichlorobe	14.93	146	284545	0.0087 mg/kg	99
97)	12dichlorobe	15.46	146	280146	0.0088 mg/kg	98
98)	nButylbenzen	15.46	91	417409	0.0086 mg/kg	98
99)	12dibromo3cl	16.58	157	26527	0.0080 mg/kg	99
100)	135Trichlorobenzene	16.88	180	209856	0.0087 mg/kg	99
101)	124Trichlobe	17.70	180	191550	0.0089 mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCS2.D Vial: 29
Acq On : 13 Nov 2019 8:12 Operator: RLD-DGS
Sample : 166498,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 08:32:36 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	120288	0.0092	mg/kg	99
103)	Naphthalene	18.01	128	436590	0.0090	mg/kg	99
104)	123Trichlben	18.32	180	191979	0.0091	mg/kg	96

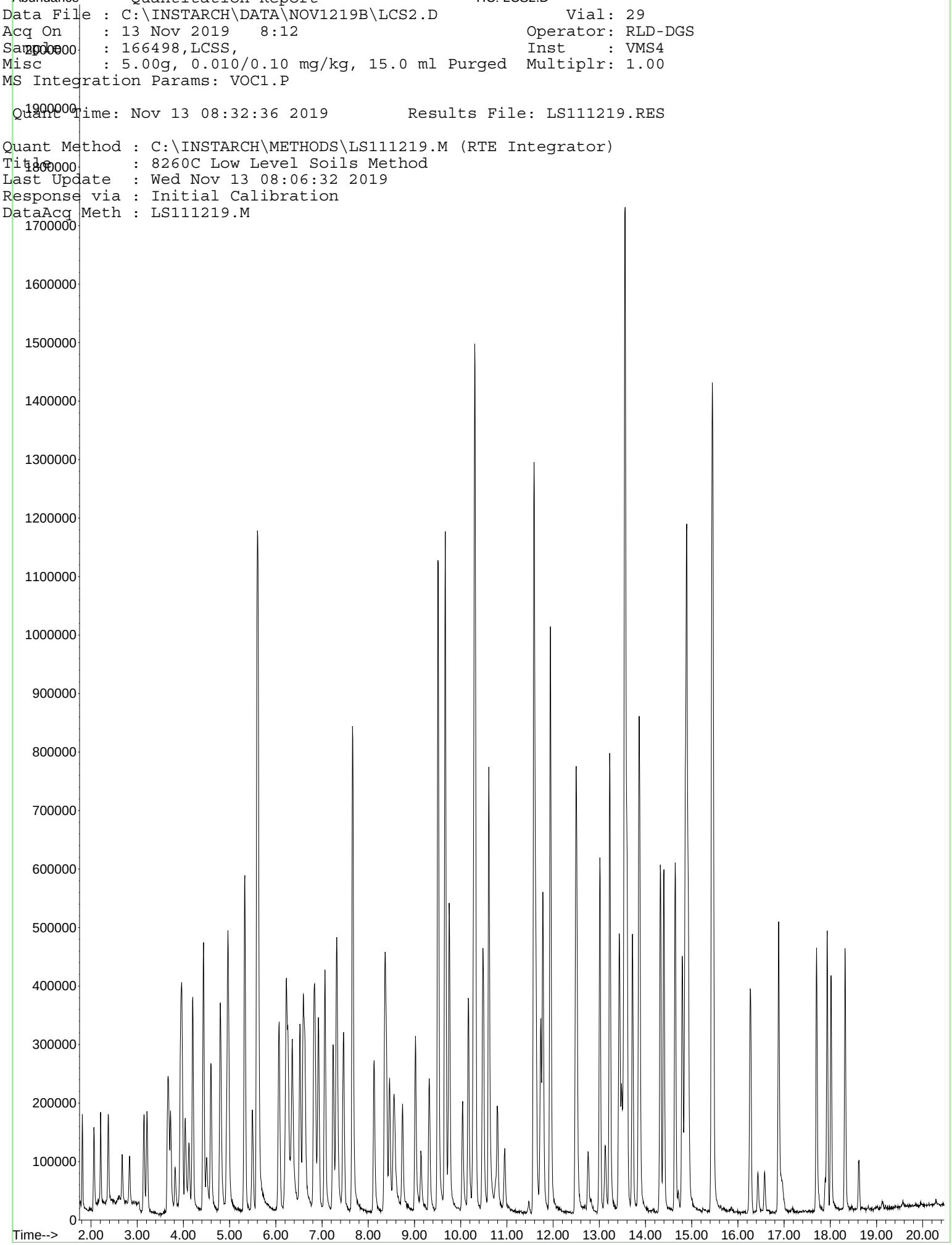
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCS2.D

Data File : C:\INSTARCH\DATA\NOV1219B\LCS2.D Vial: 29
Acq On : 13 Nov 2019 8:12 Operator: RLD-DGS
Sample : 166498,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 08:32:36 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\MB2.D Vial: 31
Acq On : 13 Nov 2019 9:09 Operator: RLD-DGS
Sample : 166498,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 09:30:32 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	966880	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	757764	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	417883	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	245292	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.25	102	49019	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.67	98	974567	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	336125	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.06	50	1912	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.68	94	1746	Below Cal		88
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.07	43	16510	N.D.		
16) Iodomethane	4.12	142	1882	0.0011	mg/kg#	66
17) Carbon Dislf	4.21	76	2528	N.D.		
18) allylchloride	4.33	41	1157	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.60	84	12542	N.D.		
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.79	59	1453	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.33	57	13584	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	0.00	45	0	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.66	42	1238	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\MB2.D Vial: 31
Acq On : 13 Nov 2019 9:09 Operator: RLD-DGS
Sample : 166498,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 09:30:32 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.32	78	2332	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	1886	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.52	43	4525	N.D.	
61)	Toluene	9.76	92	1463	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	10.31	83	1040	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.55	43	1490	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	11.58	91	1616	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.80	91	2401	N.D.	
75)	m p-Xylene	11.96	106	1692	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	12.53	104	6121	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.23	55	1636	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.55	75	12943	0.0008 mg/kg#	52
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.61	91	1862	N.D.	
88)	2chlorotolue	13.61	91	1862	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	13.87	105	1538	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.41	105	2733	N.D.	
93)	sbutylbenzen	14.65	105	1125	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.87	119	2306	N.D.	
96)	14dichlorobe	14.92	146	1667	N.D.	
97)	12dichlorobe	15.45	146	1027	N.D.	
98)	nButylbenzen	15.45	91	2030	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	17.71	180	1530	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\MB2.D Vial: 31
Acq On : 13 Nov 2019 9:09 Operator: RLD-DGS
Sample : 166498,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 09:30:32 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.03	128	8346	N.D.	
104) 123Trichlben	18.33	180	1736	N.D.	

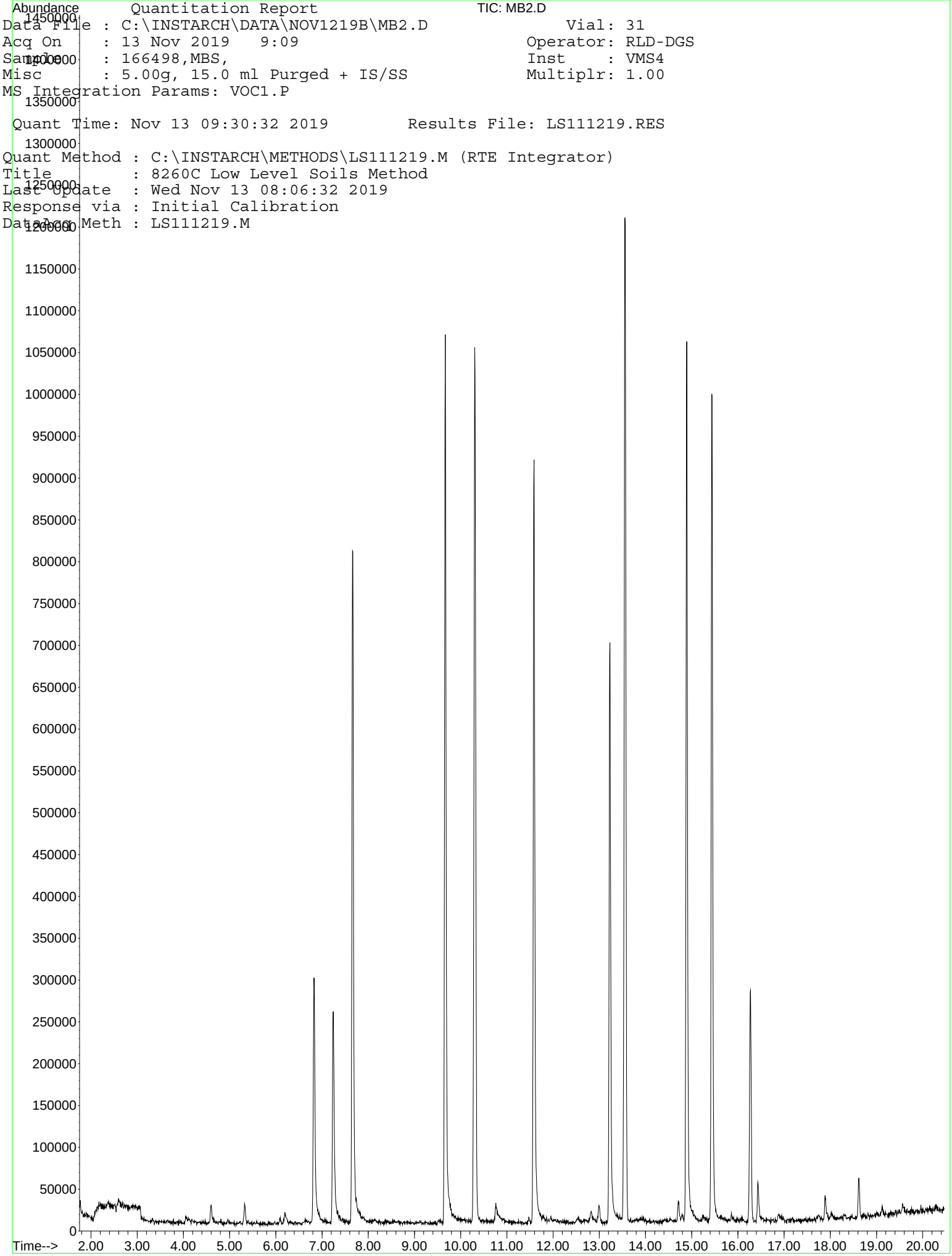
(#) = qualifier out of range (m) = manual integration

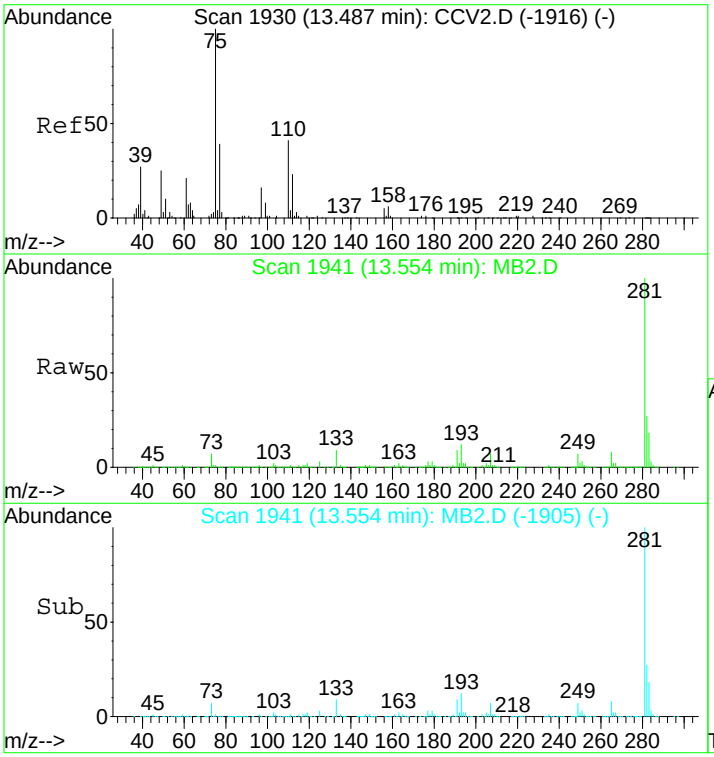
Abundance Quantitation Report TIC: MB2.D

Data File : C:\INSTARCH\DATA\NOV1219B\MB2.D Vial: 31
Acq On : 13 Nov 2019 9:09 Operator: RLD-DGS
Sample : 166498,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 09:30:32 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

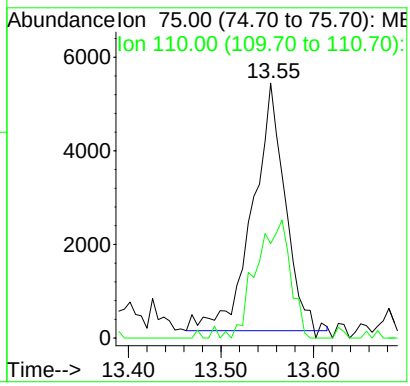




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.55 min Scan# 1941
Delta R.T. 0.07 min
Lab File: MB2.D
Acq: 13 Nov 2019 9:09

Tgt Ion: 75 Resp: 12943

Ion	Ratio	Lower	Upper
75	100		
110	50.0	5.6	45.6#



Negative Library Identification

[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185MS.D Vial: 50
Acq On : 13 Nov 2019 18:21 Operator: RLD-DGS
Sample : 166498,MSS356185, Inst : VMS4
Misc : 5.97g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 18:41:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	903390	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	728937	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	389953	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	241939	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 110 %		
45) SURR12DCAd4	7.24	102	54068	0.023 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %		
60) SURRd8Tolule	9.67	98	925952	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %		
82) SURR4BrFBenz	13.23	95	322847	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	142484	0.0118 mg/kg	99
3) Chloromethan	2.06	50	172536	0.0111 mg/kg	98
4) VinylChlorid	2.21	62	151548	0.0112 mg/kg	96
5) Bromomethane	2.68	94	62466	0.0084 mg/kg	97
6) Chloroethane	2.83	64	80056	0.0101 mg/kg	96
7) dichloroflmethane	3.14	67	209723	0.0106 mg/kg	98
8) Trichlorofma	3.22	101	191577	0.0112 mg/kg	99
9) Ethylether	3.66	59	86046	0.0091 mg/kg	91
10) dichlorotfluoroethan	3.68	67	133222	0.0111 mg/kg	95
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	3.83	56	53945	0.0256 mg/kg	91
13) 11dichlorthe	3.94	96	108501	0.0104 mg/kg	97
14) Trichlorotfluoroeth	3.97	101	223117	0.0231 mg/kg	96
15) Acetone	4.04	43	260036	0.0863 mg/kg	97
16) Iodomethane	4.12	142	128291	0.0211 mg/kg	98
17) Carbon Dislf	4.20	76	650804	0.0211 mg/kg	99
18) allylchloride	4.43	41	431502	0.0205 mg/kg	97
19) methylacetate	4.51	74	22521	0.0068 mg/kg	96
20) Methylchlorid	4.60	84	155833	0.0119 mg/kg	97
21) Acrylonitrile	4.94	53	148032	0.0453 mg/kg	98
22) t12dichlorte	4.96	96	114579	0.0096 mg/kg	97
23) tbutylalcohol	4.80	59	661314	0.5213 mg/kg	98
24) MtBE	4.98	73	277718	0.0097 mg/kg	99
25) Hexane	5.33	57	376404	0.0216 mg/kg	99
26) 11dichlorota	5.50	63	213900	0.0099 mg/kg	97
27) Vinylacetate	5.59	43	1533642	0.0860 mg/kg	98
28) chloroprene	5.61	53	369099	0.0215 mg/kg	100
29) Diisopether	5.61	45	402209	0.0100 mg/kg#	59
30) ETBE	6.07	59	340095	0.0098 mg/kg	97
31) 22dichloropr	6.22	77	169033	0.0105 mg/kg	96
32) c12dichlorte	6.24	96	128861	0.0097 mg/kg	98
33) 2Butanone	6.27	72	93609	0.0941 mg/kg	87
34) propionitrile	6.33	54	119943	0.0923 mg/kg	100
35) Ethylacetate	6.36	88	12353	0.0398 mg/kg#	90
36) methacrylonitrile	6.52	67	73017	0.0195 mg/kg	95
37) Bromochlorma	6.53	128	59192	0.0101 mg/kg	99
38) Tetrahydofur	6.59	42	300279	0.0960 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185MS.D Vial: 50
Acq On : 13 Nov 2019 18:21 Operator: RLD-DGS
Sample : 166498,MSS356185, Inst : VMS4
Misc : 5.97g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 18:41:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	202231	0.0101 mg/kg	94
40)	111trichlota	6.85	97	181569	0.0102 mg/kg	96
42)	Cyclohexane	6.92	56	213673	0.0114 mg/kg	96
43)	Carbtetraclo	7.06	119	154268	0.0104 mg/kg	99
44)	11dicloprope	7.07	110	55282	0.0098 mg/kg	98
46)	Benzene	7.32	78	458008	0.0098 mg/kg	97
47)	12dichlorota	7.34	62	138101	0.0095 mg/kg	99
48)	TAME	7.46	73	272112	0.0095 mg/kg	99
49)	trichloroete	8.13	95	137668	0.0115 mg/kg	98
50)	methylcyclohexane	8.36	83	212906	0.0107 mg/kg	97
51)	12dicloropra	8.39	63	126055	0.0097 mg/kg	95
52)	23dicl1propene	8.46	75	156853	0.0095 mg/kg	97
53)	Dibromometha	8.54	93	64995	0.0100 mg/kg	92
54)	methylmethacrylate	8.57	69	55845	0.0091 mg/kg	89
55)	14dioxane	8.58	88	49345	0.4460 mg/kg	94
56)	Bromodiclrma	8.74	83	142107	0.0094 mg/kg	99
57)	2Nitropropane	9.02	43	251673	0.0924 mg/kg	98
58)	c13dicloproe	9.33	75	163699	0.0092 mg/kg	98
59)	4Meth2Pentan	9.51	43	1081026	0.1030 mg/kg	100
61)	Toluene	9.75	92	296216	0.0095 mg/kg	97
62)	t13Dicloprop	10.04	75	133248	0.0091 mg/kg	98
63)	ethylmethacrylate	10.17	69	240064	0.0187 mg/kg	96
64)	112Triclotha	10.27	83	80966	0.0095 mg/kg#	90
65)	Tetrachlorte	10.48	166	140076	0.0099 mg/kg	97
66)	13Diclorpropa	10.50	76	149821	0.0093 mg/kg	99
68)	2Hexanone	10.61	43	731093	0.0987 mg/kg	98
69)	Clorodibrmta	10.80	129	108950	0.0088 mg/kg	98
70)	12Dibrometha	10.96	107	94430	0.0089 mg/kg	96
71)	Chlorobenzen	11.63	112	301849	0.0086 mg/kg	98
72)	1Clhexane	11.59	91	136899	0.0090 mg/kg	94
73)	1112Tetclota	11.73	131	114848	0.0089 mg/kg	99
74)	Ethylbenzene	11.78	91	507285	0.0089 mg/kg	100
75)	m p-Xylene	11.94	106	395779	0.0176 mg/kg	99
76)	o-Xylene	12.49	106	192246	0.0084 mg/kg	100
77)	Styrene	12.51	104	282412	0.0080 mg/kg	99
78)	Bromoform	12.76	173	67464	0.0086 mg/kg	98
79)	Isopropylben	13.01	105	512036	0.0089 mg/kg	99
81)	cyclohexanone	13.13	55	78147	0.1868 mg/kg	99
83)	Bromobenzene	13.44	156	132168	0.0084 mg/kg	97
84)	1122Tetrclta	13.43	83	124196	0.0091 mg/kg	97
85)	123Triclproa	13.49	75	185097	0.0115 mg/kg	90
86)	14dichloro2butene	13.52	53	36752	0.0092 mg/kg#	45
87)	n-Propylbenz	13.60	91	504958	0.0082 mg/kg	96
88)	2chlorotolue	13.72	91	312748	0.0084 mg/kg	99
89)	4chlorotolue	13.88	91	336410	0.0081 mg/kg	100
90)	135Trimebenz	13.86	105	386592	0.0083 mg/kg	100
91)	tbutylbenzen	14.33	119	354970	0.0087 mg/kg	99
92)	124Trimetben	14.40	105	377906	0.0080 mg/kg	100
93)	sbutylbenzen	14.65	105	499415	0.0084 mg/kg	99
94)	13Diclorbenz	14.80	146	220165	0.0075 mg/kg	99
95)	pIsopropylto	14.86	119	413930	0.0083 mg/kg	98
96)	14dichlorobe	14.93	146	216199	0.0075 mg/kg	99
97)	12dichlorobe	15.46	146	212253	0.0075 mg/kg	99
98)	nButylbenzen	15.46	91	334658	0.0077 mg/kg	100
99)	12dibromo3cl	16.58	157	21947	0.0075 mg/kg	97
100)	135Trichlorobenzene	16.89	180	142629	0.0066 mg/kg	98
101)	124Trichlobe	17.70	180	91898	0.0048 mg/kg	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185MS.D Vial: 50
Acq On : 13 Nov 2019 18:21 Operator: RLD-DGS
Sample : 166498,MSS356185, Inst : VMS4
Misc : 5.97g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 18:41:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	17.93	225	79315	0.0068	mg/kg	99
103) Naphthalene	18.02	128	185563	0.0043	mg/kg	99
104) 123Trichlben	18.32	180	85582	0.0046	mg/kg	98

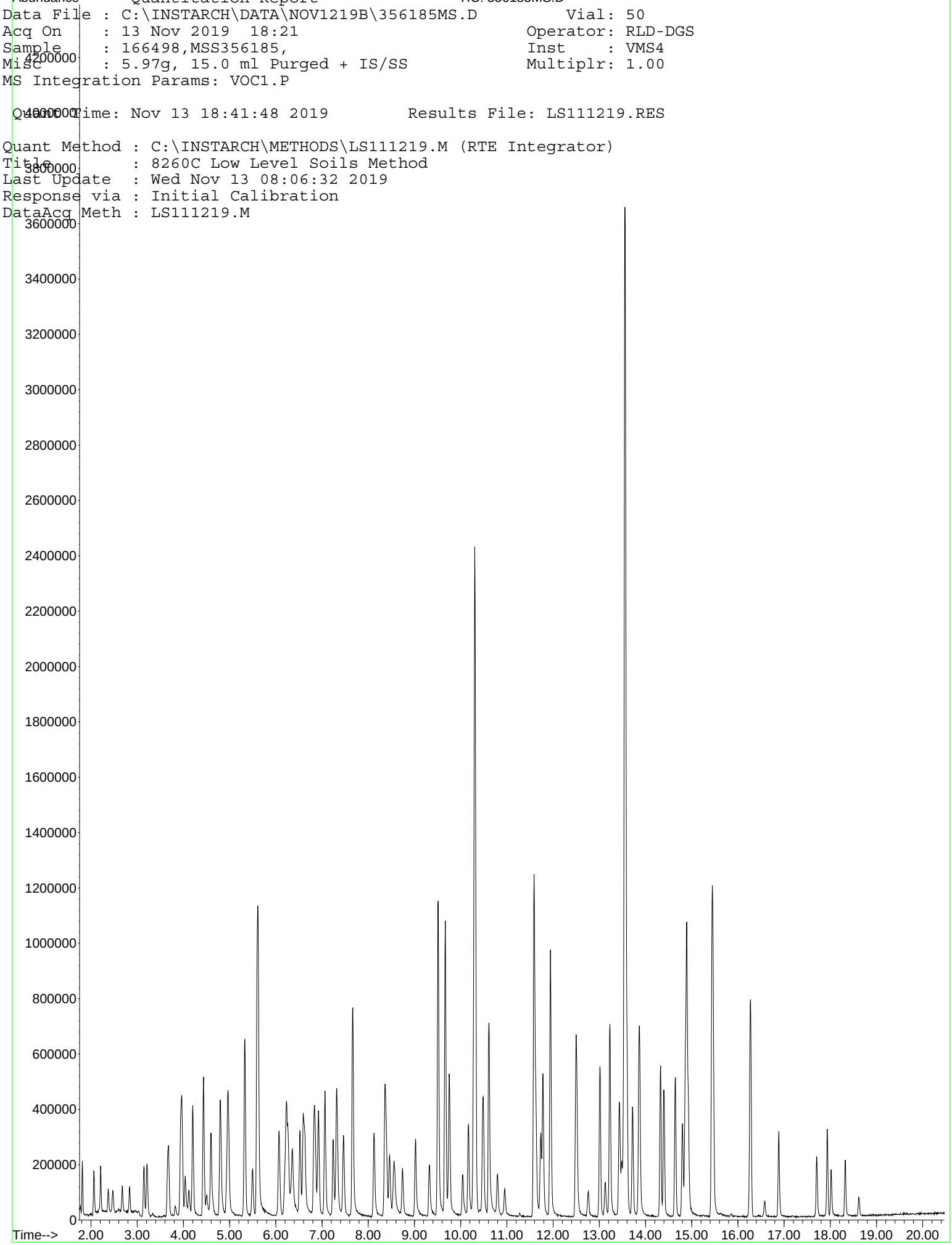
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356185MS.D

Data File : C:\INSTARCH\DATA\NOV1219B\356185MS.D Vial: 50
Acq On : 13 Nov 2019 18:21 Operator: RLD-DGS
Sample : 166498,MSS356185, Inst : VMS4
Misc : 5.97g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 18:41:48 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185SD.D Vial: 51
Acq On : 13 Nov 2019 18:50 Operator: RLD-DGS
Sample : 166498,MSS356185, Inst : VMS4
Misc : 6.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 19:10:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	922945	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.58	117	733888	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	386732	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	238005	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.24	102	52798	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.67	98	935903	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	328260	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	157088	0.0128	mg/kg	100
3) Chloromethan	2.06	50	187866	0.0118	mg/kg	97
4) VinylChlorid	2.21	62	164622	0.0119	mg/kg	97
5) Bromomethane	2.68	94	67948	0.0090	mg/kg	99
6) Chloroethane	2.83	64	87980	0.0109	mg/kg	97
7) dichloroflmethane	3.14	67	237327	0.0118	mg/kg	99
8) Trichlorofma	3.21	101	213886	0.0123	mg/kg	99
9) Ethylether	3.66	59	101488	0.0105	mg/kg	95
10) dichlorotfluoroethan	3.68	67	152957	0.0124	mg/kg	96
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.83	56	60809	0.0283	mg/kg	91
13) 11dichlorthe	3.94	96	122864	0.0115	mg/kg	99
14) Trichlorotfluoroeth	3.96	101	246009	0.0250	mg/kg	97
15) Acetone	4.04	43	299800	0.0974	mg/kg	98
16) Iodomethane	4.12	142	198454	0.0285	mg/kg	99
17) Carbon Dislf	4.20	76	727781	0.0231	mg/kg	100
18) allylchloride	4.43	41	486073	0.0226	mg/kg	98
19) methylacetate	4.51	74	26766	0.0079	mg/kg	98
20) Methylchlorid	4.59	84	180426	0.0137	mg/kg	98
21) Acrylonitrile	4.93	53	169721	0.0509	mg/kg	95
22) t12dichlorte	4.96	96	129003	0.0106	mg/kg	99
23) tbutylalcohol	4.80	59	784716	0.6054	mg/kg	98
24) MtBE	4.98	73	317301	0.0108	mg/kg	98
25) Hexane	5.33	57	415138	0.0233	mg/kg	97
26) 11dichlorota	5.49	63	243480	0.0110	mg/kg	98
27) Vinylacetate	5.59	43	1765512	0.0969	mg/kg	99
28) chloroprene	5.61	53	418875	0.0239	mg/kg	97
29) Diisopether	5.61	45	467465	0.0114	mg/kg#	57
30) ETBE	6.07	59	387540	0.0109	mg/kg	98
31) 22dichloropr	6.22	77	186209	0.0113	mg/kg	98
32) c12dichlorte	6.24	96	143281	0.0106	mg/kg	99
33) 2Butanone	6.26	72	104675	0.1030	mg/kg	96
34) propionitrile	6.33	54	132724	0.1000	mg/kg	96
35) Ethylacetate	6.35	88	15161	0.0479	mg/kg	94
36) methacrylonitrile	6.52	67	86430	0.0226	mg/kg	97
37) Bromochlorma	6.53	128	67298	0.0112	mg/kg	98
38) Tetrahydofur	6.59	42	348478	0.1091	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185SD.D Vial: 51
Acq On : 13 Nov 2019 18:50 Operator: RLD-DGS
Sample : 166498,MSS356185, Inst : VMS4
Misc : 6.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 19:10:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	223475	0.0109 mg/kg	94
40)	111trichlota	6.86	97	204537	0.0113 mg/kg	97
42)	Cyclohexane	6.92	56	239444	0.0125 mg/kg	98
43)	Carbtetraclo	7.06	119	171751	0.0114 mg/kg	100
44)	11dicloprope	7.07	110	64614	0.0112 mg/kg	95
46)	Benzene	7.32	78	508567	0.0106 mg/kg	96
47)	12dichlorota	7.34	62	155567	0.0105 mg/kg	99
48)	TAME	7.46	73	313472	0.0107 mg/kg	99
49)	trichloroete	8.12	95	138041	0.0112 mg/kg	97
50)	methylcyclohexane	8.36	83	241938	0.0118 mg/kg	97
51)	12dicloropra	8.39	63	144268	0.0109 mg/kg	95
52)	23dicl1propene	8.46	75	178861	0.0106 mg/kg	97
53)	Dibromometha	8.55	93	69781	0.0105 mg/kg	96
54)	methylmethacrylate	8.57	69	66734	0.0107 mg/kg	98
55)	14dioxane	8.59	88	66647	0.5896 mg/kg	93
56)	Bromodiclrma	8.74	83	162208	0.0105 mg/kg	98
57)	2Nitropropane	9.02	43	291504	0.1048 mg/kg	98
58)	c13dicloproe	9.32	75	189258	0.0104 mg/kg	98
59)	4Meth2Pentan	9.51	43	1273401	0.1188 mg/kg	98
61)	Toluene	9.75	92	330651	0.0104 mg/kg	100
62)	t13Dicloprop	10.04	75	150745	0.0101 mg/kg	100
63)	ethylmethacrylate	10.17	69	280645	0.0214 mg/kg	97
64)	112Triclotha	10.27	83	94162	0.0108 mg/kg	92
65)	Tetrachlorte	10.48	166	152130	0.0106 mg/kg	97
66)	13Diclorpropa	10.49	76	176668	0.0107 mg/kg	95
68)	2Hexanone	10.61	43	863804	0.1158 mg/kg	98
69)	Clorodibrmta	10.80	129	120661	0.0097 mg/kg	98
70)	12Dibrometha	10.95	107	108512	0.0101 mg/kg	95
71)	Chlorobenzen	11.63	112	329195	0.0094 mg/kg	97
72)	1Clhexane	11.59	91	156615	0.0102 mg/kg	93
73)	1112Tetclota	11.73	131	128636	0.0099 mg/kg	99
74)	Ethylbenzene	11.78	91	565843	0.0099 mg/kg	99
75)	m p-Xylene	11.94	106	450553	0.0199 mg/kg	99
76)	o-Xylene	12.50	106	219534	0.0096 mg/kg	98
77)	Styrene	12.51	104	326610	0.0092 mg/kg	100
78)	Bromoform	12.76	173	76433	0.0097 mg/kg	98
79)	Isopropylben	13.01	105	576223	0.0099 mg/kg	99
81)	cyclohexanone	13.13	55	104389	0.2516 mg/kg	98
83)	Bromobenzene	13.44	156	152250	0.0098 mg/kg	98
84)	1122Tetrclta	13.43	83	146533	0.0108 mg/kg	97
85)	123Triclproa	13.49	75	207956	0.0131 mg/kg	89
86)	14dichloro2butene	13.52	53	41006	0.0104 mg/kg#	17
87)	n-Propylbenz	13.60	91	574576	0.0094 mg/kg	97
88)	2chlorotolue	13.72	91	342659	0.0093 mg/kg	98
89)	4chlorotolue	13.88	91	392498	0.0095 mg/kg	98
90)	135Trimebenz	13.86	105	435310	0.0094 mg/kg	98
91)	tbutylbenzen	14.33	119	399947	0.0098 mg/kg	99
92)	124Trimetben	14.40	105	430427	0.0091 mg/kg	100
93)	sbutylbenzen	14.64	105	557303	0.0094 mg/kg	99
94)	13Diclorbenz	14.79	146	244811	0.0084 mg/kg	99
95)	pIsopropylto	14.86	119	470384	0.0095 mg/kg	99
96)	14dichlorobe	14.93	146	253042	0.0088 mg/kg	98
97)	12dichlorobe	15.46	146	235292	0.0084 mg/kg	96
98)	nButylbenzen	15.46	91	381293	0.0089 mg/kg	98
99)	12dibromo3cl	16.57	157	26376	0.0090 mg/kg	95
100)	135Trichlorobenzene	16.89	180	153073	0.0072 mg/kg	99
101)	124Trichlobe	17.70	180	108012	0.0057 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356185SD.D Vial: 51
Acq On : 13 Nov 2019 18:50 Operator: RLD-DGS
Sample : 166498,MSS356185, Inst : VMS4
Misc : 6.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 19:10:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	90102	0.0078	mg/kg	98
103)	Naphthalene	18.02	128	218948	0.0051	mg/kg	99
104)	123Trichlben	18.32	180	97232	0.0052	mg/kg	96

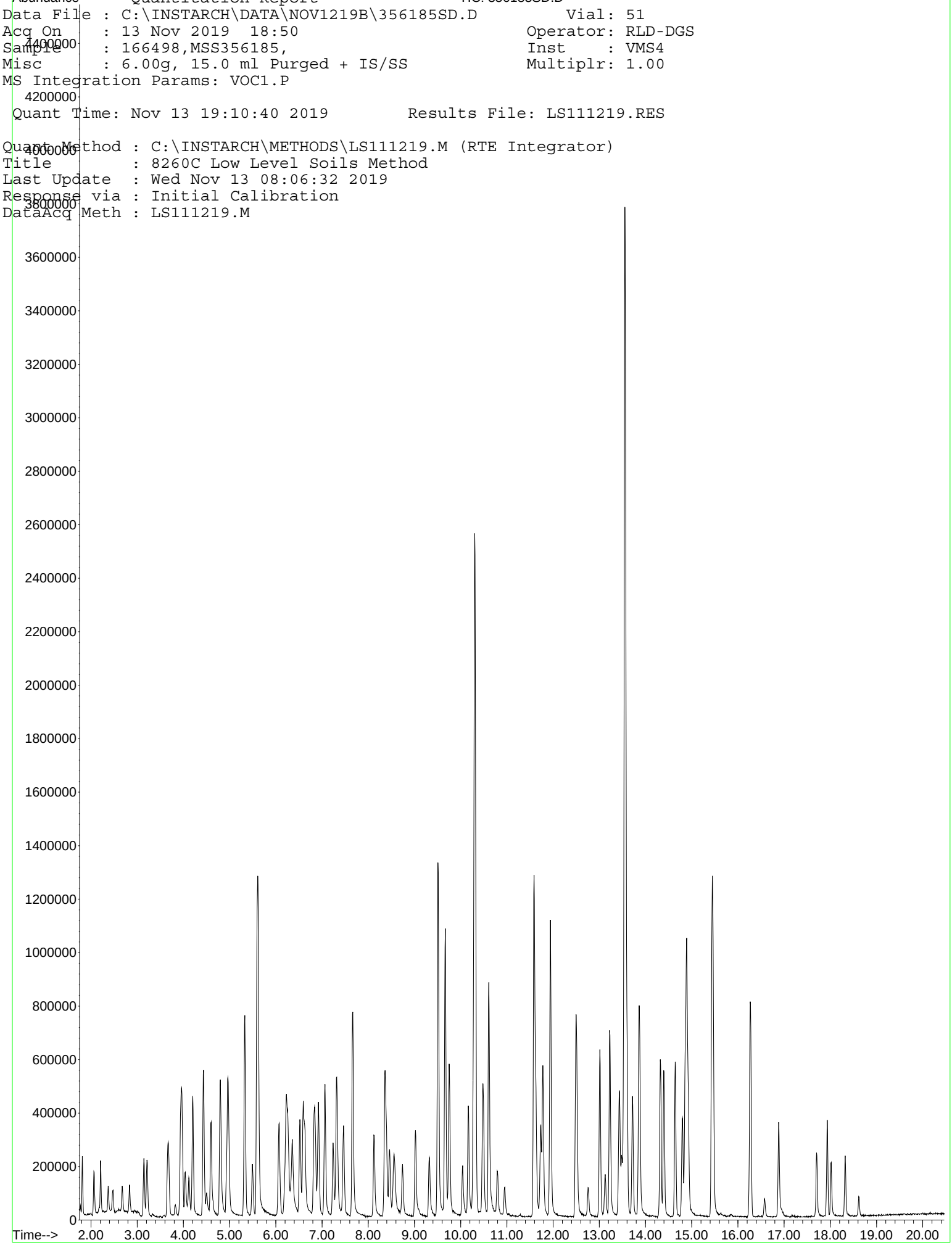
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356185SD.D

Data File : C:\INSTARCH\DATA\NOV1219B\356185SD.D Vial: 51
Acq On : 13 Nov 2019 18:50 Operator: RLD-DGS
Sample : 166498,MSS356185, Inst : VMS4
Misc : 6.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 13 19:10:40 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCS3.D Vial: 55
Acq On : 14 Nov 2019 8:48 Operator: RLD-DGS
Sample : 166558,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 09:09:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	904049	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	717266	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	397807	0.02	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	231013	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.24	102	47182	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.67	98	915774	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.23	95	315457	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			

Target Compounds						Qvalue
2) Dichlorodi	1.81	85	117625	0.0098	mg/kg	98
3) Chloromethan	2.06	50	157276	0.0101	mg/kg	100
4) VinylChlorid	2.21	62	136307	0.0100	mg/kg	95
5) Bromomethane	2.68	94	54197	0.0070	mg/kg	100
6) Chloroethane	2.83	64	74495	0.0094	mg/kg	96
7) dichloroflmethane	3.14	67	194600	0.0099	mg/kg	98
8) Trichlorofma	3.21	101	173329	0.0101	mg/kg	99
9) Ethylether	3.66	59	94244	0.0100	mg/kg	92
10) dichlorotfluoroethan	3.68	67	116927	0.0097	mg/kg	96
11) propyleneoxide	3.72	58	154560	0.0972	mg/kg	97
12) Acrolein	3.82	56	105435	0.0500	mg/kg	100
13) 11dichlorthe	3.93	96	103395	0.0099	mg/kg	96
14) Trichlorotfluoroeth	3.96	101	197477	0.0205	mg/kg	96
15) Acetone	4.04	43	286049	0.0949	mg/kg	99
16) Iodomethane	4.12	142	184672	0.0275	mg/kg	97
17) Carbon Dislf	4.20	76	607078	0.0197	mg/kg	99
18) allylchloride	4.43	41	400557	0.0190	mg/kg	99
19) methylacetate	4.50	74	32052	0.0096	mg/kg	84
20) Methylchlorid	4.59	84	162084	0.0125	mg/kg	99
21) Acrylonitrile	4.93	53	157620	0.0482	mg/kg	99
22) t12dichlorte	4.96	96	110294	0.0092	mg/kg	99
23) tbutylalcohol	4.80	59	578957	0.4560	mg/kg	99
24) MtBE	4.98	73	286970	0.0100	mg/kg	98
25) Hexane	5.32	57	315006	0.0180	mg/kg	99
26) 11dichlorota	5.49	63	213028	0.0098	mg/kg	97
27) Vinylacetate	5.59	43	1807474	0.1012	mg/kg	99
28) chloroprene	5.61	53	348000	0.0202	mg/kg	100
29) Diisopether	5.61	45	423711	0.0105	mg/kg#	74
30) ETBE	6.07	59	353084	0.0102	mg/kg	96
31) 22dichloropr	6.22	77	155359	0.0096	mg/kg	99
32) c12dichlorte	6.24	96	128248	0.0097	mg/kg	99
33) 2Butanone	6.27	72	100560	0.1011	mg/kg	91
34) propionitrile	6.34	54	117837	0.0907	mg/kg	98
35) Ethylacetate	6.35	88	14788	0.0477	mg/kg#	79
36) methacrylonitrile	6.52	67	74198	0.0198	mg/kg	99
37) Bromochlorma	6.52	128	59677	0.0101	mg/kg	99
38) Tetrahydofur	6.59	42	310246	0.0991	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCS3.D Vial: 55
Acq On : 14 Nov 2019 8:48 Operator: RLD-DGS
Sample : 166558,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 09:09:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	203223	0.0101 mg/kg	95
40)	111trichlota	6.85	97	175390	0.0099 mg/kg	97
42)	Cyclohexane	6.92	56	188897	0.0100 mg/kg	99
43)	Carbtetraclo	7.06	119	143873	0.0097 mg/kg	98
44)	11dicloprope	7.07	110	53875	0.0095 mg/kg	98
46)	Benzene	7.31	78	456703	0.0098 mg/kg	95
47)	12dichlorota	7.34	62	143936	0.0099 mg/kg	96
48)	TAME	7.46	73	282516	0.0098 mg/kg	99
49)	trichloroete	8.12	95	120559	0.0100 mg/kg	95
50)	methylcyclohexane	8.36	83	202893	0.0101 mg/kg	97
51)	12dicloropra	8.40	63	132614	0.0102 mg/kg	98
52)	23dicl1propene	8.46	75	158909	0.0096 mg/kg	97
53)	Dibromometha	8.54	93	67681	0.0104 mg/kg	94
54)	methylmethacrylate	8.57	69	61804	0.0101 mg/kg	97
55)	14dioxane	8.59	88	41583	0.3756 mg/kg	92
56)	Bromodiclrma	8.74	83	146541	0.0097 mg/kg	98
57)	2Nitropropane	9.02	43	265625	0.0975 mg/kg	97
58)	c13dicloproe	9.32	75	176813	0.0099 mg/kg	99
59)	4Meth2Pentan	9.51	43	1109681	0.1056 mg/kg	98
61)	Toluene	9.75	92	296219	0.0095 mg/kg	98
62)	t13Dicloprop	10.04	75	144179	0.0098 mg/kg	99
63)	ethylmethacrylate	10.17	69	254692	0.0199 mg/kg	98
64)	112Triclotha	10.27	83	86406	0.0101 mg/kg#	89
65)	Tetrachlorte	10.48	166	135533	0.0096 mg/kg	98
66)	13Diclorpropa	10.49	76	161360	0.0100 mg/kg	99
68)	2Hexanone	10.61	43	758278	0.1040 mg/kg	99
69)	Clorodibrmta	10.80	129	117632	0.0096 mg/kg	97
70)	12Dibrometha	10.96	107	101704	0.0097 mg/kg	97
71)	Chlorobenzen	11.63	112	324410	0.0094 mg/kg	98
72)	1Clhexane	11.60	91	139066	0.0093 mg/kg	97
73)	1112Tetclota	11.73	131	123470	0.0097 mg/kg	97
74)	Ethylbenzene	11.78	91	526704	0.0094 mg/kg	99
75)	m p-Xylene	11.94	106	413989	0.0187 mg/kg	100
76)	o-Xylene	12.50	106	210251	0.0094 mg/kg	99
77)	Styrene	12.51	104	332400	0.0096 mg/kg	100
78)	Bromoform	12.76	173	76251	0.0099 mg/kg	96
79)	Isopropylben	13.01	105	548883	0.0097 mg/kg	98
81)	cyclohexanone	13.13	55	75498	0.1769 mg/kg	97
83)	Bromobenzene	13.44	156	157228	0.0098 mg/kg	99
84)	1122Tetrclta	13.43	83	138334	0.0099 mg/kg	99
85)	123Triclproa	13.48	75	173721	0.0106 mg/kg	93
86)	14dichloro2butene	13.51	53	38245	0.0094 mg/kg	73
87)	n-Propylbenz	13.60	91	584573	0.0093 mg/kg	97
88)	2chlorotolue	13.72	91	355875	0.0094 mg/kg	99
89)	4chlorotolue	13.88	91	404505	0.0095 mg/kg	97
90)	135Trimebenz	13.86	105	449256	0.0095 mg/kg	100
91)	tbutylbenzen	14.33	119	392129	0.0094 mg/kg	98
92)	124Trimetben	14.40	105	457890	0.0095 mg/kg	100
93)	sbutylbenzen	14.64	105	585735	0.0096 mg/kg	99
94)	13Diclorbenz	14.80	146	281276	0.0094 mg/kg	99
95)	pIsopropylto	14.86	119	499877	0.0098 mg/kg	99
96)	14dichlorobe	14.92	146	279551	0.0095 mg/kg	98
97)	12dichlorobe	15.47	146	274130	0.0095 mg/kg	99
98)	nButylbenzen	15.46	91	423694	0.0096 mg/kg	99
99)	12dibromo3cl	16.58	157	31202	0.0104 mg/kg	88
100)	135Trichlorobenzene	16.88	180	206519	0.0094 mg/kg	99
101)	124Trichlobe	17.70	180	192453	0.0098 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCS3.D Vial: 55
Acq On : 14 Nov 2019 8:48 Operator: RLD-DGS
Sample : 166558,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 09:09:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	17.93	225	113009	0.0095 mg/kg	98
103) Naphthalene	18.01	128	442631	0.0100 mg/kg	98
104) 123Trichlben	18.32	180	185476	0.0097 mg/kg	98

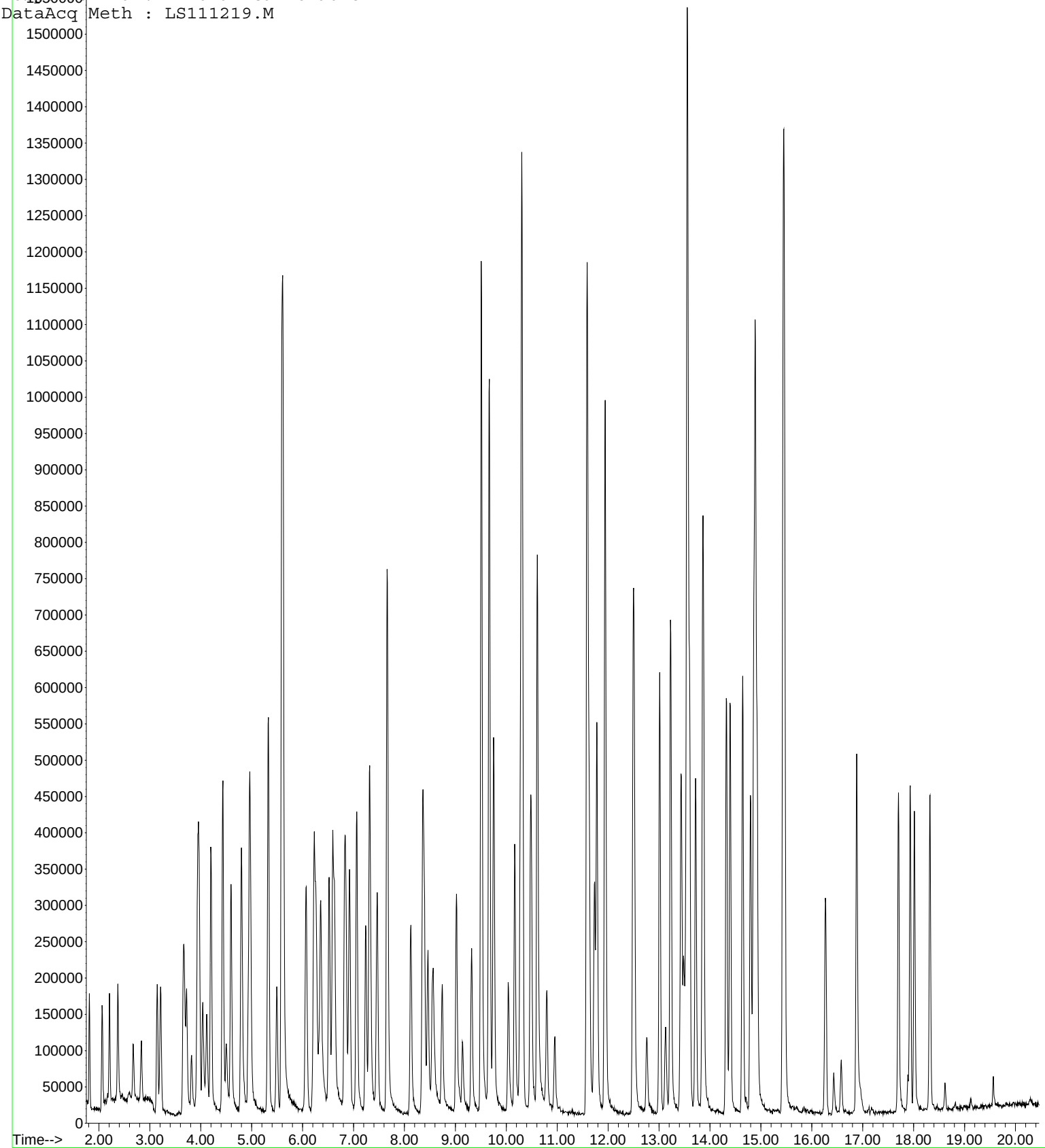
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCS3.D

Data File : C:\INSTARCH\DATA\NOV1219B\LCS3.D Vial: 55
Acq On : 14 Nov 2019 8:48 Operator: RLD-DGS
Sample : 166558,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 09:09:35 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\MB3-CCB1.D Vial: 57
Acq On : 14 Nov 2019 9:46 Operator: RLD-DGS
Sample : 166558,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 10:07:31 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	910247	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	727737	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	403128	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	234066	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	46176	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %		
60) SURRd8Tolule	9.67	98	911721	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	313352	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	2065	N.D.	
3) Chloromethan	2.07	50	2002	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.69	94	1581	Below Cal #	63
6) Chloroethane	0.00	64	0	N.D.	
7) dichloroflmethane	3.05	67	1218	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	5612	N.D.	
16) Iodomethane	4.14	142	4593	0.0017 mg/kg#	82
17) Carbon Dislf	4.20	76	1007	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	16949	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	0.00	59	0	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.33	57	3310	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\MB3-CCB1.D Vial: 57
Acq On : 14 Nov 2019 9:46 Operator: RLD-DGS
Sample : 166558,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 10:07:31 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.13	95	2171	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.53	43	2127	N.D.	
61)	Toluene	0.00	92	0	N.D.	
62)	t13Dicloprop	0.00	75	0	N.D.	
63)	ethylmethacrylate	0.00	69	0	N.D.	
64)	112Triclotha	0.00	83	0	N.D.	
65)	Tetrachlorte	0.00	166	0	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	0.00	43	0	N.D.	
69)	Clorodibrmta	0.00	129	0	N.D.	
70)	12Dibrometha	0.00	107	0	N.D.	
71)	Chlorobenzen	0.00	112	0	N.D.	
72)	1Clhexane	0.00	91	0	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	0.00	104	0	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.15	55	1071	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.46	75	1023	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.61	91	1644	N.D.	
88)	2chlorotolue	13.61	91	1644	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.40	105	1738	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.88	119	1435	N.D.	
96)	14dichlorobe	14.92	146	1513	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.47	91	1413	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	17.72	180	1018	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\MB3-CCB1.D Vial: 57
Acq On : 14 Nov 2019 9:46 Operator: RLD-DGS
Sample : 166558,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 10:07:31 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.04	128	5639	N.D.	
104) 123Trichlben	18.32	180	1352	N.D.	

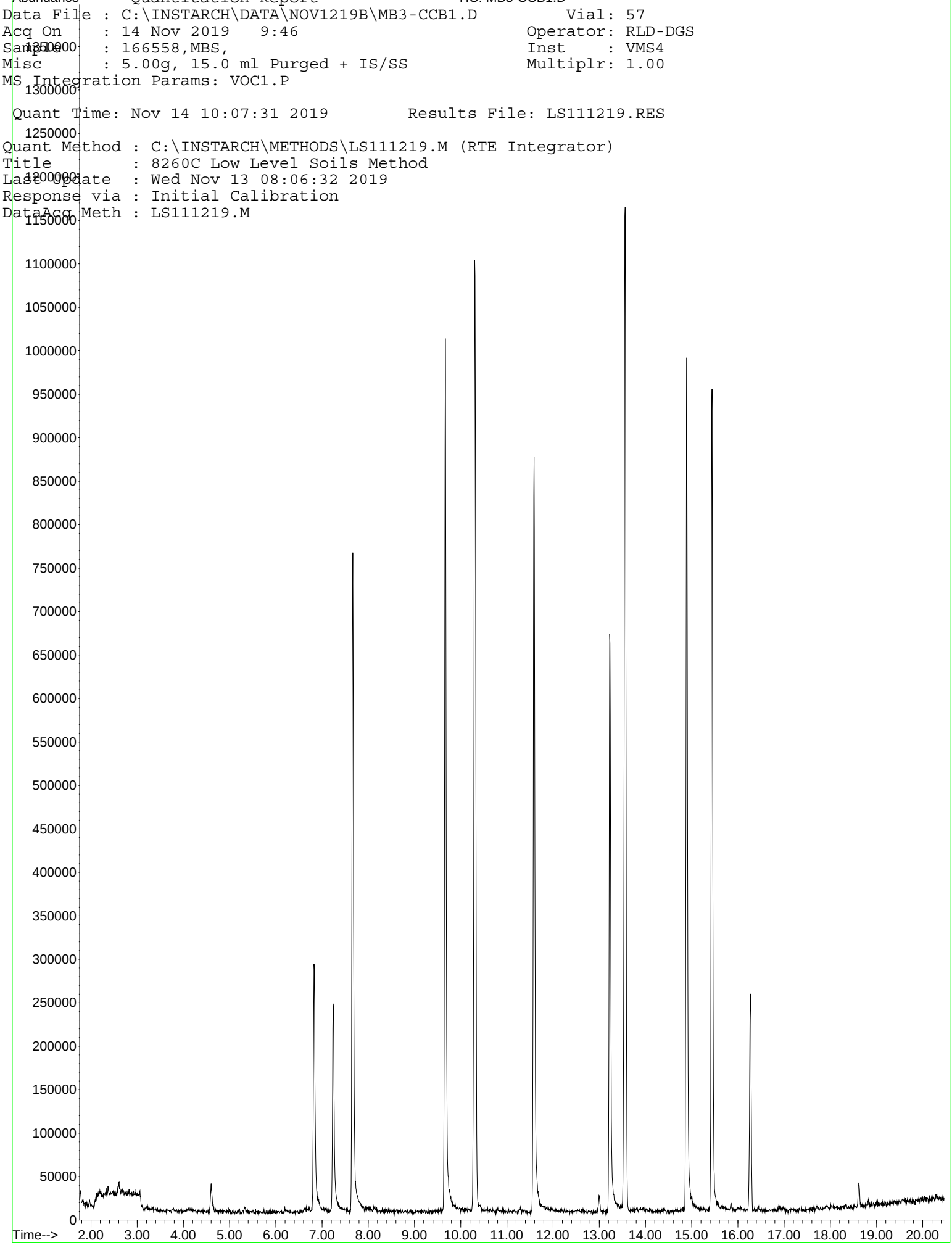
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: MB3-CCB1.D

Data File : C:\INSTARCH\DATA\NOV1219B\MB3-CCB1.D Vial: 57
Acq On : 14 Nov 2019 9:46 Operator: RLD-DGS
Sample : 166558,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 10:07:31 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181SDR.D Vial: 69
Acq On : 14 Nov 2019 15:35 Operator: RLD-DGS
Sample : 166497,MSDS356181, Inst : VMS4
Misc : 4.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 15:55:55 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Report

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	935356	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	730908	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	350488	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	243335	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	52801	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.67	98	948265	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	305740	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	143583	0.0115 mg/kg	98
3) Chloromethan	2.07	50	175906	0.0109 mg/kg	98
4) VinylChlorid	2.21	62	153393	0.0109 mg/kg	98
5) Bromomethane	2.68	94	59392	0.0075 mg/kg	99
6) Chloroethane	2.83	64	83332	0.0102 mg/kg	98
7) dichloroflmethane	3.14	67	221899	0.0109 mg/kg	99
8) Trichlorofma	3.21	101	196439	0.0111 mg/kg	98
9) Ethylether	3.65	59	97625	0.0100 mg/kg	99
10) dichlorotfluoroethan	3.68	67	141054	0.0113 mg/kg	99
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	3.83	56	66474	0.0305 mg/kg	84
13) 11dichlorthe	3.94	96	109536	0.0101 mg/kg	94
14) Trichlorotfluoroeth	3.96	101	239863	0.0240 mg/kg	96
15) Acetone	4.03	43	340257	0.1091 mg/kg	98
16) Iodomethane	4.12	142	152925	0.0234 mg/kg	100
17) Carbon Dislf	4.20	76	691335	0.0217 mg/kg	99
18) allylchloride	4.43	41	452113	0.0207 mg/kg	99
19) methylacetate	4.50	74	31089	0.0090 mg/kg	96
20) Methylchlorid	4.59	84	157745	0.0116 mg/kg	96
21) Acrylonitrile	4.93	53	177037	0.0523 mg/kg	96
22) t12dichlorte	4.96	96	122924	0.0100 mg/kg	97
23) tbutylalcohol	4.80	59	981337	0.7471 mg/kg	98
24) MtBE	4.98	73	306996	0.0103 mg/kg	98
25) Hexane	5.33	57	459960	0.0254 mg/kg	98
26) 11dichlorota	5.49	63	219343	0.0098 mg/kg	98
27) Vinylacetate	5.59	43	1949319	0.1055 mg/kg	99
28) chloroprene	5.61	53	395134	0.0222 mg/kg	99
29) Diisopether	5.61	45	438242	0.0105 mg/kg#	81
30) ETBE	6.07	59	361604	0.0101 mg/kg	99
31) 22dichloropr	6.22	77	177430	0.0106 mg/kg	97
32) c12dichlorte	6.24	96	131979	0.0096 mg/kg	99
33) 2Butanone	6.26	72	119219	0.1158 mg/kg	86
34) propionitrile	6.33	54	149470	0.1111 mg/kg	98
35) Ethylacetate	6.36	88	15016	0.0468 mg/kg#	79
36) methacrylonitrile	6.51	67	84877	0.0219 mg/kg	93
37) Bromochlorma	6.52	128	63458	0.0104 mg/kg	98
38) Tetrahydofur	6.59	42	381382	0.1178 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181SDR.D Vial: 69
Acq On : 14 Nov 2019 15:35 Operator: RLD-DGS
Sample : 166497,MSDS356181, Inst : VMS4
Misc : 4.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 15:55:55 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	206395	0.0099 mg/kg	99
40)	111trichlota	6.85	97	188388	0.0102 mg/kg	96
42)	Cyclohexane	6.92	56	216829	0.0111 mg/kg	97
43)	Carbtetraclo	7.06	119	159181	0.0104 mg/kg	96
44)	11dicloprope	7.07	110	59423	0.0102 mg/kg	99
46)	Benzene	7.31	78	476740	0.0098 mg/kg	97
47)	12dichlorota	7.34	62	148725	0.0099 mg/kg	99
48)	TAME	7.46	73	310735	0.0104 mg/kg	99
49)	trichloroete	8.13	95	122928	0.0099 mg/kg	96
50)	methylcyclohexane	8.36	83	235870	0.0114 mg/kg	95
51)	12dicloropra	8.39	63	138360	0.0103 mg/kg	96
52)	23dicl1propene	8.46	75	173217	0.0101 mg/kg	95
53)	Dibromometha	8.55	93	73925	0.0110 mg/kg	91
54)	methylmethacrylate	8.56	69	64884	0.0103 mg/kg	98
55)	14dioxane	8.58	88	138607	1.2100 mg/kg	97
56)	Bromodiclrma	8.74	83	156136	0.0100 mg/kg	97
57)	2Nitropropane	9.03	43	305686	0.1084 mg/kg	98
58)	c13dicloproe	9.32	75	176963	0.0096 mg/kg	100
59)	4Meth2Pentan	9.51	43	1340595	0.1234 mg/kg	99
61)	Toluene	9.75	92	309510	0.0096 mg/kg	95
62)	t13Dicloprop	10.04	75	149002	0.0098 mg/kg	98
63)	ethylmethacrylate	10.17	69	277908	0.0210 mg/kg	96
64)	112Triclotha	10.27	83	89682	0.0101 mg/kg	96
65)	Tetrachlorte	10.48	166	150276	0.0103 mg/kg	99
66)	13Diclorpropa	10.49	76	166967	0.0100 mg/kg	100
68)	2Hexanone	10.61	43	930796	0.1253 mg/kg	99
69)	Clorodibrmta	10.80	129	120588	0.0097 mg/kg	98
70)	12Dibrometha	10.95	107	105907	0.0099 mg/kg	94
71)	Chlorobenzen	11.63	112	325916	0.0093 mg/kg	98
72)	1Clhexane	11.59	91	168669	0.0110 mg/kg	95
73)	1112Tetclota	11.73	131	118765	0.0091 mg/kg	97
74)	Ethylbenzene	11.78	91	557251	0.0098 mg/kg	99
75)	m p-Xylene	11.94	106	443048	0.0197 mg/kg	100
76)	o-Xylene	12.50	106	219933	0.0096 mg/kg	96
77)	Styrene	12.51	104	324409	0.0092 mg/kg	100
78)	Bromoform	12.76	173	74694	0.0095 mg/kg	98
79)	Isopropylben	13.01	105	579289	0.0100 mg/kg	100
81)	cyclohexanone	13.13	55	200557	0.5335 mg/kg	98
83)	Bromobenzene	13.44	156	146710	0.0104 mg/kg	95
84)	1122Tetrclta	13.43	83	143501	0.0116 mg/kg	99
85)	123Triclproa	13.49	75	193661	0.0134 mg/kg	95
86)	14dichloro2butene	13.52	53	45074	0.0126 mg/kg#	69
87)	n-Propylbenz	13.60	91	616287	0.0112 mg/kg	97
88)	2chlorotolue	13.72	91	352849	0.0106 mg/kg	100
89)	4chlorotolue	13.88	91	400744	0.0107 mg/kg	98
90)	135Trimebenz	13.86	105	460640	0.0110 mg/kg	100
91)	tbutylbenzen	14.33	119	411981	0.0112 mg/kg	99
92)	124Trimetben	14.39	105	446906	0.0105 mg/kg	98
93)	sbutylbenzen	14.64	105	630990	0.0118 mg/kg	100
94)	13Diclorbenz	14.80	146	258504	0.0098 mg/kg	99
95)	pIsopropylto	14.86	119	527477	0.0118 mg/kg	98
96)	14dichlorobe	14.93	146	262306	0.0101 mg/kg	99
97)	12dichlorobe	15.46	146	244540	0.0096 mg/kg	99
98)	nButylbenzen	15.46	91	469889	0.0121 mg/kg	98
99)	12dibromo3cl	16.58	157	27466	0.0104 mg/kg	97
100)	135Trichlorobenzene	16.89	180	180144	0.0093 mg/kg	98
101)	124Trichlobe	17.70	180	127493	0.0074 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181SDR.D Vial: 69
Acq On : 14 Nov 2019 15:35 Operator: RLD-DGS
Sample : 166497,MSDS356181, Inst : VMS4
Misc : 4.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 15:55:55 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	17.93	225	114030	0.0109	mg/kg	98
103) Naphthalene	18.01	128	218757	0.0056	mg/kg	98
104) 123Trichlben	18.32	180	105846	0.0063	mg/kg	98

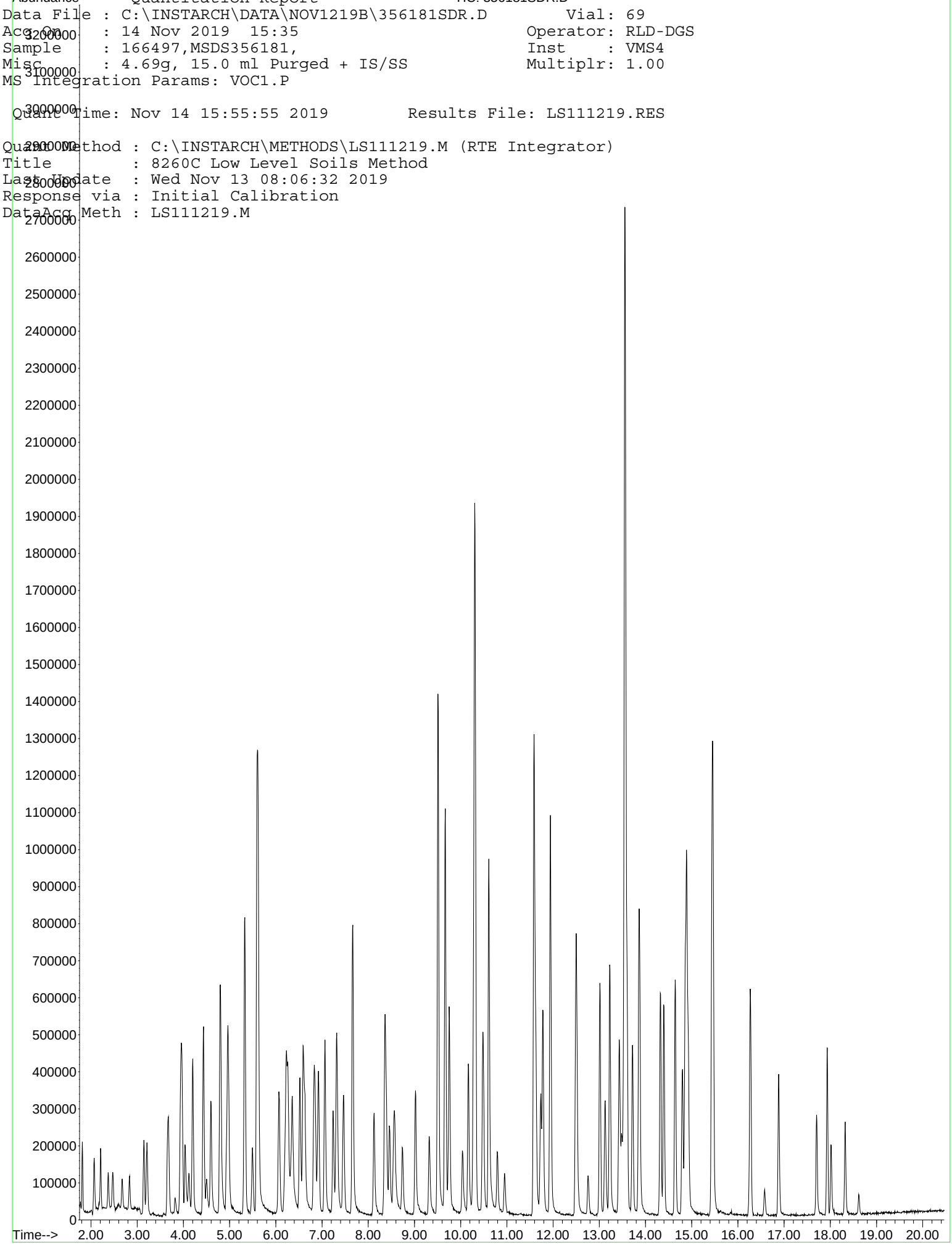
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356181SDR.D

Data File : C:\INSTARCH\DATA\NOV1219B\356181SDR.D Vial: 69
Acq On : 14 Nov 2019 15:35 Operator: RLD-DGS
Sample : 166497,MSDS356181, Inst : VMS4
Misc : 4.69g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 15:55:55 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181MSR.D Vial: 70
Acq On : 14 Nov 2019 16:04 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 5.14g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 16:24:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

NOT USED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	281982	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	231727	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	121179	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	78681	0.023	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 115 %			
45) SURR12DCAd4	7.24	102	18653	0.025	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 125 %			
60) SURRd8Tolule	9.67	98	296802	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.23	95	105814	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			
Target Compounds						Qvalue
2) Dichlorodi	1.82	85	33006	0.0088	mg/kg	98
3) Chloromethan	2.06	50	41382	0.0085	mg/kg	100
4) VinylChlorid	2.21	62	34711	0.0082	mg/kg	96
5) Bromomethane	2.68	94	16131	0.0066	mg/kg	87
6) Chloroethane	2.83	64	19776	0.0080	mg/kg	97
7) dichloroflmethane	3.15	67	49345	0.0080	mg/kg	98
8) Trichlorofma	3.21	101	42335	0.0079	mg/kg	100
9) Ethylether	3.66	59	25075	0.0085	mg/kg	86
10) dichlorotfluoroethan	3.67	67	31957	0.0085	mg/kg	97
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.83	56	27289	0.0415	mg/kg	91
13) 11dichlorthe	3.94	96	25244	0.0077	mg/kg	95
14) Trichlorotfluoroeth	3.96	101	53254	0.0177	mg/kg	94
15) Acetone	4.04	43	189207	0.2013	mg/kg	95
16) Iodomethane	4.12	142	35767	0.0194	mg/kg	95
17) Carbon Dislf	4.20	76	155271	0.0161	mg/kg	100
18) allylchloride	4.43	41	103646	0.0158	mg/kg	99
19) methylacetate	4.51	74	15579	0.0150	mg/kg	81
20) Methylchlorid	4.60	84	41156	0.0099	mg/kg	96
21) Acrylonitrile	4.95	53	93852	0.0920	mg/kg	100
22) t12dichlorte	4.96	96	26354	0.0071	mg/kg	94
23) tbutylalcohol	4.80	59	523503	1.3220	mg/kg	95
24) MtBE	4.98	73	90865	0.0101	mg/kg	97
25) Hexane	5.32	57	94799	0.0174	mg/kg	99
26) 11dichlorota	5.50	63	51631	0.0076	mg/kg	97
27) Vinylacetate	5.60	43	551227	0.0990	mg/kg	99
28) chloroprene	5.62	53	83238	0.0155	mg/kg	97
29) Diisopether	5.61	45	106315	0.0085	mg/kg#	93
30) ETBE	6.07	59	91003	0.0084	mg/kg	100
31) 22dichloropr	6.22	77	43528	0.0087	mg/kg	95
32) c12dichlorte	6.24	96	32970	0.0080	mg/kg	96
33) 2Butanone	6.27	72	64758	0.2086	mg/kg	92
34) propionitrile	6.34	54	81813	0.2018	mg/kg	94
35) Ethylacetate	6.37	88	7204	0.0744	mg/kg#	83
36) methacrylonitrile	6.52	67	37799	0.0323	mg/kg	97
37) Bromochlorma	6.53	128	16620	0.0091	mg/kg#	91
38) Tetrahydofur	6.59	42	211395	0.2166	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181MSR.D Vial: 70
Acq On : 14 Nov 2019 16:04 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 5.14g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 16:24:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.64	83	51981	0.0083 mg/kg	100
40)	111trichlota	6.85	97	42376	0.0076 mg/kg	93
42)	Cyclohexane	6.92	56	47914	0.0082 mg/kg	99
43)	Carbtetraclo	7.07	119	34314	0.0074 mg/kg	99
44)	11dicloprope	7.07	110	14023	0.0079 mg/kg#	85
46)	Benzene	7.32	78	110618	0.0076 mg/kg	94
47)	12dichlorota	7.34	62	44312	0.0098 mg/kg	97
48)	TAME	7.47	73	83755	0.0093 mg/kg	98
49)	trichloroete	8.13	95	26133	0.0070 mg/kg	97
50)	methylcyclohexane	8.36	83	52694	0.0084 mg/kg	97
51)	12dicloropra	8.40	63	33436	0.0083 mg/kg#	92
52)	23dicl1propene	8.46	75	39999	0.0078 mg/kg	98
53)	Dibromometha	8.55	93	22008	0.0108 mg/kg	90
54)	methylmethacrylate	8.57	69	22182	0.0116 mg/kg	98
55)	14dioxane	8.58	88	70202	2.0328 mg/kg	94
56)	Bromodiclrma	8.74	83	38357	0.0082 mg/kg	98
57)	2Nitropropane	9.02	43	143100	0.1684 mg/kg	94
58)	c13dicloproe	9.33	75	42919	0.0077 mg/kg	99
59)	4Meth2Pentan	9.51	43	600785	0.1834 mg/kg	97
61)	Toluene	9.76	92	73901	0.0076 mg/kg	99
62)	t13Dicloprop	10.06	75	36833	0.0081 mg/kg	98
63)	ethylmethacrylate	10.17	69	83444	0.0209 mg/kg	97
64)	112Triclotha	10.27	83	26816	0.0101 mg/kg	96
65)	Tetrachlorte	10.48	166	32892	0.0075 mg/kg	97
66)	13Diclorpropa	10.49	76	49481	0.0098 mg/kg	99
68)	2Hexanone	10.61	43	425982	0.1809 mg/kg	98
69)	Clorodibrmta	10.80	129	31413	0.0080 mg/kg	99
70)	12Dibrometha	10.95	107	32960	0.0097 mg/kg	97
71)	Chlorobenzen	11.63	112	78377	0.0071 mg/kg	95
72)	1Clhexane	11.60	91	36517	0.0075 mg/kg	92
73)	1112Tetclota	11.73	131	27870	0.0068 mg/kg	80
74)	Ethylbenzene	11.78	91	125733	0.0070 mg/kg	98
75)	m p-Xylene	11.94	106	97513	0.0137 mg/kg	100
76)	o-Xylene	12.50	106	50817	0.0070 mg/kg	95
77)	Styrene	12.52	104	69543	0.0062 mg/kg	98
78)	Bromoform	12.76	173	22343	0.0090 mg/kg	97
79)	Isopropylben	13.01	105	126717	0.0069 mg/kg	98
81)	cyclohexanone	13.13	55	91183	0.7015 mg/kg	99
83)	Bromobenzene	13.44	156	38747	0.0079 mg/kg	89
84)	1122Tetrclta	13.43	83	52654	0.0123 mg/kg	99
85)	123Triclproa	13.49	75	69294	0.0139 mg/kg	93
86)	14dichloro2butene	13.52	53	15411	0.0125 mg/kg#	27
87)	n-Propylbenz	13.60	91	135218	0.0071 mg/kg	93
88)	2chlorotolue	13.72	91	88623	0.0077 mg/kg	96
89)	4chlorotolue	13.88	91	92798	0.0072 mg/kg	93
90)	135Trimebenz	13.86	105	104295	0.0072 mg/kg	99
91)	tbutylbenzen	14.32	119	89306	0.0070 mg/kg	97
92)	124Trimetben	14.40	105	100497	0.0068 mg/kg	97
93)	sbutylbenzen	14.64	105	133754	0.0072 mg/kg	99
94)	13Diclorbenz	14.80	146	62126	0.0068 mg/kg	99
95)	pIsopropylto	14.86	119	107852	0.0070 mg/kg	98
96)	14dichlorobe	14.93	146	63497	0.0070 mg/kg	98
97)	12dichlorobe	15.46	146	61946	0.0071 mg/kg	99
98)	nButylbenzen	15.46	91	95046	0.0071 mg/kg	97
99)	12dibromo3cl	16.58	157	10688	0.0117 mg/kg	98
100)	135Trichlorobenzene	16.89	180	39722	0.0059 mg/kg	98
101)	124Trichlobe	17.70	180	28928	0.0048 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\356181MSR.D Vial: 70
Acq On : 14 Nov 2019 16:04 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 5.14g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 16:24:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	17.93	225	23724	0.0066	mg/kg	100
103) Naphthalene	18.02	128	62132	0.0046	mg/kg	98
104) 123Trichlben	18.32	180	24917	0.0043	mg/kg	98

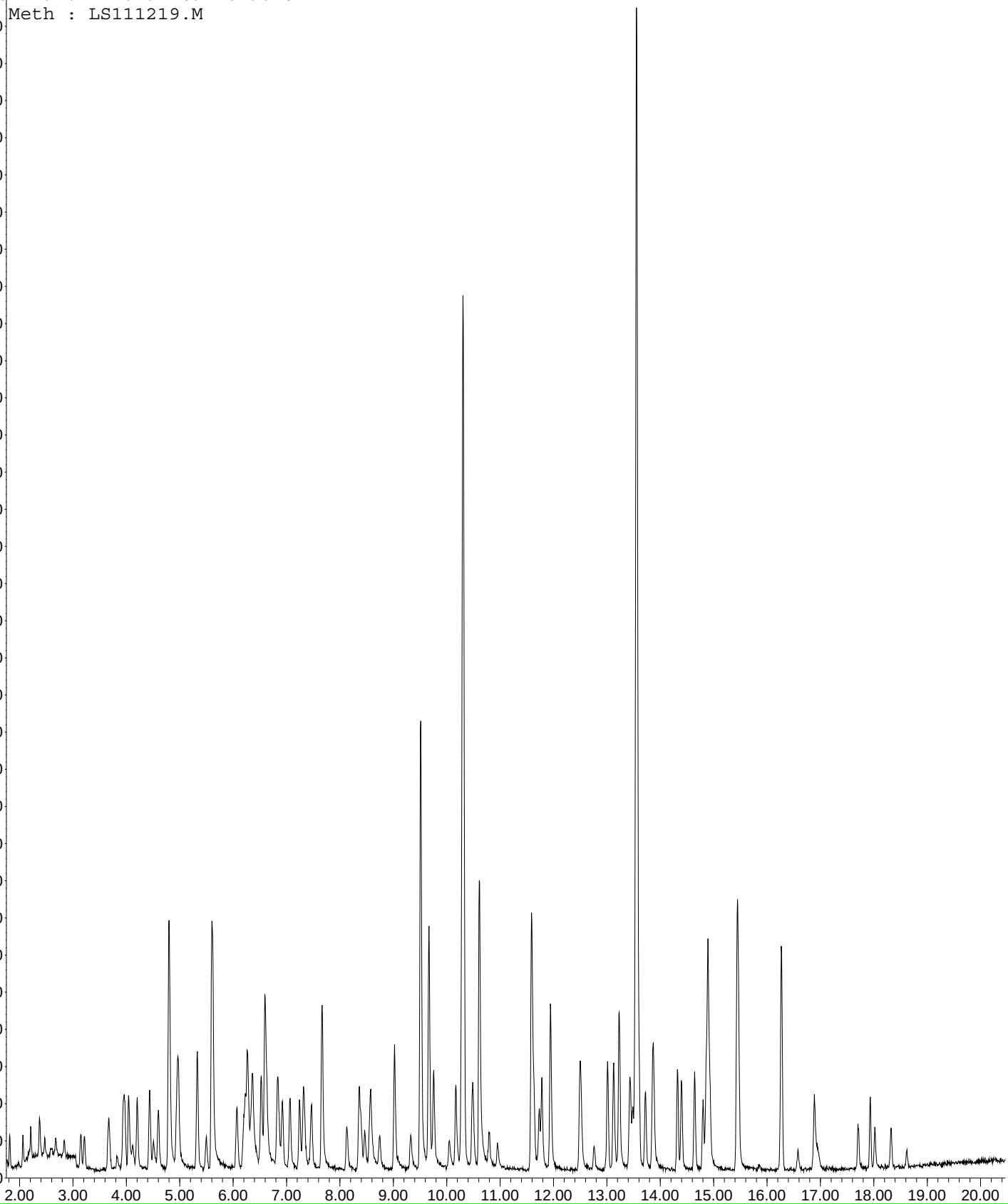
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356181MSR.D

Data File : C:\INSTARCH\DATA\NOV1219B\356181MSR.D Vial: 70
Acq On : 14 Nov 2019 16:04 Operator: RLD-DGS
Sample : 166497,MSS356181, Inst : VMS4
Misc : 5.14g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 16:24:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCSD1.D Vial: 71
Acq On : 14 Nov 2019 16:33 Operator: RLD-DGS
Sample : 166558,LCSDS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 16:53:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.67	96	901179	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.59	117	712687	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	14.89	152	391412	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.83	113	229766	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.24	102	49019	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %		
60) SURRd8Tolule	9.67	98	920268	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.23	95	321713	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	1.81	85	118347	0.0099 mg/kg	100
3) Chloromethan	2.07	50	157703	0.0102 mg/kg	98
4) VinylChlorid	2.21	62	132119	0.0098 mg/kg	97
5) Bromomethane	2.68	94	56757	0.0074 mg/kg	96
6) Chloroethane	2.83	64	78323	0.0100 mg/kg	99
7) dichloroflmethane	3.15	67	193232	0.0098 mg/kg	99
8) Trichlorofma	3.22	101	171852	0.0101 mg/kg	99
9) Ethylether	3.66	59	93125	0.0099 mg/kg	93
10) dichlorotfluoroethan	3.67	67	121991	0.0102 mg/kg	98
11) propyleneoxide	3.72	58	133572	0.0843 mg/kg	98
12) Acrolein	3.82	56	97318	0.0463 mg/kg	87
13) 11dichlorthe	3.94	96	101258	0.0097 mg/kg	99
14) Trichlorotfluoroeth	3.96	101	197019	0.0205 mg/kg	96
15) Acetone	4.04	43	276282	0.0920 mg/kg	99
16) Iodomethane	4.12	142	181456	0.0272 mg/kg	97
17) Carbon Dislf	4.20	76	593290	0.0193 mg/kg	99
18) allylchloride	4.43	41	401573	0.0191 mg/kg	98
19) methylacetate	4.51	74	28811	0.0087 mg/kg	99
20) Methylchlorid	4.60	84	156740	0.0120 mg/kg	99
21) Acrylonitrile	4.93	53	158033	0.0485 mg/kg	99
22) t12dichlorte	4.96	96	110582	0.0093 mg/kg	98
23) tbutylalcohol	4.81	59	530894	0.4195 mg/kg	96
24) MtBE	4.97	73	277657	0.0097 mg/kg	98
25) Hexane	5.32	57	309286	0.0178 mg/kg	98
26) 11dichlorota	5.49	63	214583	0.0099 mg/kg	98
27) Vinylacetate	5.59	43	1575491	0.0885 mg/kg	98
28) chloroprene	5.61	53	340502	0.0199 mg/kg	100
29) Diisopether	5.61	45	416760	0.0104 mg/kg#	58
30) ETBE	6.07	59	340504	0.0098 mg/kg	97
31) 22dichloropr	6.22	77	143030	0.0089 mg/kg	99
32) c12dichlorte	6.24	96	129045	0.0098 mg/kg	95
33) 2Butanone	6.27	72	94154	0.0949 mg/kg	94
34) propionitrile	6.33	54	112963	0.0872 mg/kg	95
35) Ethylacetate	6.36	88	13859	0.0448 mg/kg#	84
36) methacrylonitrile	6.52	67	69796	0.0187 mg/kg	97
37) Bromochlorma	6.52	128	61181	0.0104 mg/kg	96
38) Tetrahydofur	6.60	42	297368	0.0953 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCSD1.D Vial: 71
Acq On : 14 Nov 2019 16:33 Operator: RLD-DGS
Sample : 166558,LCSDS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 16:53:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.63	83	196647	0.0098	mg/kg	98
40)	111trichlota	6.85	97	169728	0.0096	mg/kg	96
42)	Cyclohexane	6.92	56	189108	0.0101	mg/kg	98
43)	Carbtetraclo	7.07	119	141629	0.0096	mg/kg	99
44)	11dicloprope	7.06	110	54296	0.0096	mg/kg	96
46)	Benzene	7.31	78	447881	0.0096	mg/kg	97
47)	12dichlorota	7.34	62	144437	0.0100	mg/kg	97
48)	TAME	7.46	73	274088	0.0095	mg/kg	99
49)	trichloroete	8.13	95	116093	0.0097	mg/kg	94
50)	methylcyclohexane	8.36	83	196259	0.0098	mg/kg	97
51)	12dicloropra	8.39	63	123616	0.0096	mg/kg	93
52)	23dicl1propene	8.46	75	158258	0.0096	mg/kg	96
53)	Dibromometha	8.55	93	68031	0.0105	mg/kg	92
54)	methylmethacrylate	8.57	69	54086	0.0089	mg/kg	95
55)	14dioxane	8.58	88	44467	0.4029	mg/kg	97
56)	Bromodiclrma	8.74	83	146787	0.0098	mg/kg	97
57)	2Nitropropane	9.02	43	244438	0.0900	mg/kg	96
58)	c13dicloproe	9.32	75	167089	0.0094	mg/kg	98
59)	4Meth2Pentan	9.51	43	1057023	0.1010	mg/kg	98
61)	Toluene	9.75	92	295977	0.0095	mg/kg	98
62)	t13Dicloprop	10.04	75	139329	0.0095	mg/kg	98
63)	ethylmethacrylate	10.17	69	242346	0.0190	mg/kg	95
64)	112Triclotha	10.27	83	86506	0.0102	mg/kg	97
65)	Tetrachlorte	10.48	166	126448	0.0090	mg/kg	98
66)	13Diclorpropa	10.50	76	156482	0.0097	mg/kg	98
68)	2Hexanone	10.61	43	718741	0.0992	mg/kg	99
69)	Clorodibrmta	10.80	129	115085	0.0095	mg/kg	98
70)	12Dibrometha	10.96	107	101751	0.0098	mg/kg	95
71)	Chlorobenzen	11.63	112	320290	0.0094	mg/kg	98
72)	1Clhexane	11.59	91	136843	0.0092	mg/kg	96
73)	1112Tetclota	11.73	131	118732	0.0094	mg/kg	99
74)	Ethylbenzene	11.78	91	509119	0.0092	mg/kg	100
75)	m p-Xylene	11.94	106	402850	0.0183	mg/kg	98
76)	o-Xylene	12.50	106	207355	0.0093	mg/kg	96
77)	Styrene	12.51	104	320997	0.0093	mg/kg	98
78)	Bromoform	12.76	173	71705	0.0094	mg/kg	97
79)	Isopropylben	13.01	105	522683	0.0093	mg/kg	100
81)	cyclohexanone	13.13	55	71116	0.1694	mg/kg	100
83)	Bromobenzene	13.44	156	146583	0.0093	mg/kg	97
84)	1122Tetrclta	13.42	83	132621	0.0096	mg/kg	100
85)	123Triclproa	13.48	75	174534	0.0108	mg/kg	93
86)	14dichloro2butene	13.52	53	32805	0.0082	mg/kg#	58
87)	n-Propylbenz	13.60	91	549788	0.0089	mg/kg	97
88)	2chlorotolue	13.72	91	340179	0.0091	mg/kg	100
89)	4chlorotolue	13.88	91	379492	0.0091	mg/kg	99
90)	135Trimebenz	13.86	105	430115	0.0092	mg/kg	99
91)	tbutylbenzen	14.32	119	384376	0.0093	mg/kg	99
92)	124Trimetben	14.40	105	423043	0.0089	mg/kg	99
93)	sbutylbenzen	14.64	105	559551	0.0094	mg/kg	100
94)	13Diclorbenz	14.79	146	263231	0.0090	mg/kg	100
95)	pIsopropylto	14.86	119	454349	0.0091	mg/kg	98
96)	14dichlorobe	14.93	146	254705	0.0088	mg/kg	99
97)	12dichlorobe	15.46	146	263185	0.0093	mg/kg	98
98)	nButylbenzen	15.46	91	391107	0.0090	mg/kg	99
99)	12dibromo3cl	16.58	157	26476	0.0090	mg/kg	97
100)	135Trichlorobenzene	16.88	180	180887	0.0084	mg/kg	96
101)	124Trichlobe	17.70	180	168085	0.0087	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1219B\LCSD1.D Vial: 71
Acq On : 14 Nov 2019 16:33 Operator: RLD-DGS
Sample : 166558,LCSDS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 16:53:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	17.93	225	103945	0.0089	mg/kg	98
103)	Naphthalene	18.01	128	389392	0.0090	mg/kg	99
104)	123Trichlben	18.32	180	167168	0.0089	mg/kg	98

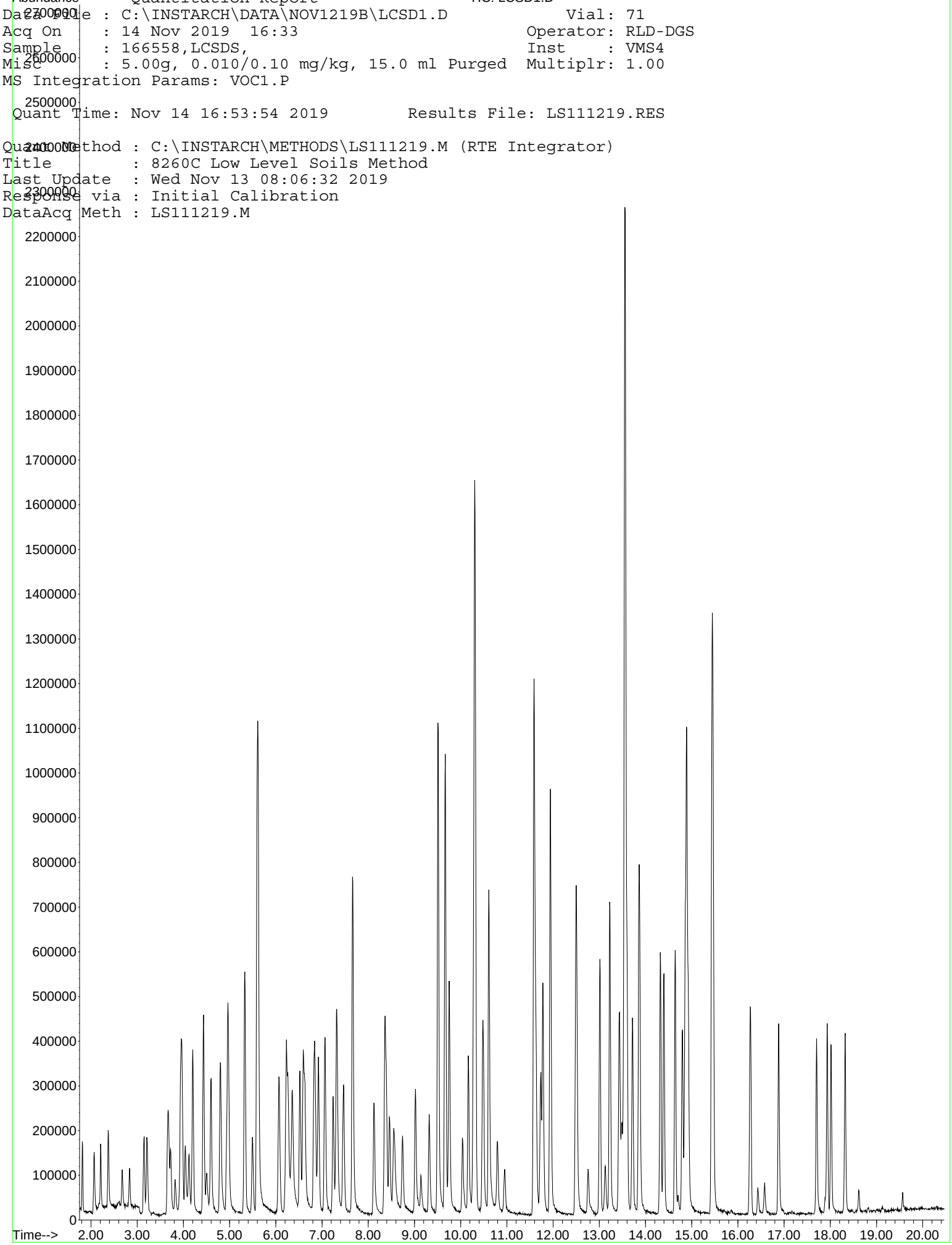
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCSD1.D

Data File : C:\INSTARCH\DATA\NOV1219B\LCSD1.D Vial: 71
Acq On : 14 Nov 2019 16:33 Operator: RLD-DGS
Sample : 166558,LCSDS, Inst : VMS4
Misc : 5.00g, 0.010/0.10 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 14 16:53:54 2019 Results File: LS111219.RES

Quant Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Nov 13 08:06:32 2019
Response via : Initial Calibration
DataAcq Meth : LS111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCS1R.D Vial: 4
Acq On : 18 Nov 2019 16:52 Operator: RLD-DGS
Sample : 166497,LCSS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 17:12:56 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	833813	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	668269	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	354344	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	219326	1.006	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.24	102	51154	0.951	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
61) SURRd8Tolule	9.67	98	834451	0.983	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	319927	0.938	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	123628	0.4614	mg/kg	99
3) Chloromethan	2.08	50	186384	0.4777	mg/kg	99
4) VinylChlorid	2.22	62	148086	0.5057	mg/kg	98
5) Bromomethane	2.66	94	40672	0.7153	mg/kg	96
6) Chloroethane	2.79	64	51153	0.8193	mg/kg	100
7) dichloroflmethane	3.10	67	83830	0.7124	mg/kg#	82
8) Trichlorofma	3.13	101	90813	0.4327	mg/kg	98
9) Ethylether	3.67	59	97633	0.4857	mg/kg	99
10) dichlorotfluoroethan	3.66	67	133637	0.5631	mg/kg	97
11) propyleneoxide	3.73	58	341343	6.3658	mg/kg	96
12) Acrolein	3.84	56	53768	2.7063	mg/kg	84
13) 11dichlorthe	3.89	96	98606	0.5172	mg/kg	95
14) Trichlorotfluoroeth	3.91	101	187266	1.1627	mg/kg	97
15) Acetone	4.09	43	514145	5.2467	mg/kg	97
16) Iodomethane	4.08	127	36867	0.6441	mg/kg	99
17) Carbon Dislf	4.15	76	498367	1.0640	mg/kg	98
18) allylchloride	4.40	41	439126	0.9669	mg/kg	96
19) methylacetate	4.52	74	56975	0.5378	mg/kg	93
20) Methylchlorid	4.58	84	120935	0.5427	mg/kg	97
21) Acrylonitrile	4.96	53	298277	2.8302	mg/kg	97
22) t12dichlorte	4.95	96	105770	0.5310	mg/kg	100
23) tbutylalcohol	4.94	59	1059285	26.6845	mg/kg	100
24) MtBE	4.99	73	273235	0.4704	mg/kg#	1
25) Hexane	5.30	57	420391	1.0912	mg/kg	99
26) 11dichlorota	5.48	63	213651	0.5037	mg/kg	97
27) Vinylacetate	5.60	43	2399879	5.9491	mg/kg	99
28) chloroprene	5.60	53	387648	1.0622	mg/kg	99
29) Diisopether	5.63	45	406925	0.4969	mg/kg#	88
30) ETBE	6.08	59	312147	0.4683	mg/kg	97
31) 22dichloropr	6.21	77	162140	0.5099	mg/kg	96
32) c12dichlorte	6.22	96	109507	0.4874	mg/kg	96
33) 2Butanone	6.29	72	162913	5.7401	mg/kg	95
34) propionitrile	6.37	54	259962	5.6744	mg/kg	99
35) Ethylacetate	6.38	88	22808	2.8359	mg/kg#	93
36) methacrylonitrile	6.53	67	120870	1.1446	mg/kg	92
37) Bromochlorma	6.52	128	46811	0.4860	mg/kg	93
38) Tetrahydofur	6.61	42	548483	5.6613	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCS1R.D Vial: 4
Acq On : 18 Nov 2019 16:52 Operator: RLD-DGS
Sample : 166497,LCSS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 17:12:56 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	186388	0.5107 mg/kg	99
40)	111trichlota	6.84	97	164369	0.5266 mg/kg	98
42)	Cyclohexane	6.91	56	201804	0.5105 mg/kg	98
43)	Carbtetraclo	7.05	119	139036	0.5298 mg/kg	98
44)	11dicloprope	7.06	110	54938	0.5652 mg/kg#	84
46)	Benzene	7.31	78	435572	0.5277 mg/kg	98
47)	12dichlorota	7.34	62	146277	0.4915 mg/kg	96
48)	TAME	7.48	73	271236	0.4770 mg/kg	96
49)	trichloroete	8.12	95	115050	0.5656 mg/kg	94
50)	methylcyclohexane	8.35	83	204848	0.5026 mg/kg	95
51)	12dicloropra	8.39	63	124955	0.4936 mg/kg	97
52)	23dicl1propene	8.46	75	143867	0.4813 mg/kg	97
53)	Dibromometha	8.55	93	62885	0.4749 mg/kg	97
54)	methylmethacrylate	8.57	69	68240	0.4608 mg/kg	97
55)	14dioxane	8.61	88	92146	27.2523 mg/kg	96
56)	Bromodiclrma	8.74	83	129552	0.5017 mg/kg	97
57)	2Nitropropane	9.03	43	496737	6.0744 mg/kg	97
58)	2CLEVE	9.14	63	417765	2.6376 mg/kg	99
59)	c13dicloproe	9.33	75	169300	0.4966 mg/kg	97
60)	4Meth2Pentan	9.52	43	1603794	5.8315 mg/kg	99
62)	Toluene	9.75	92	278064	0.5078 mg/kg	100
63)	t13Dicloprop	10.04	75	146558	0.5043 mg/kg	97
64)	ethylmethacrylate	10.17	69	288985	0.9764 mg/kg	97
65)	112Triclotha	10.27	83	82861	0.5011 mg/kg	98
66)	Tetrachlorte	10.48	166	116528	0.5142 mg/kg	99
67)	13Diclorpropa	10.50	76	163628	0.4996 mg/kg	100
69)	2Hexanone	10.62	43	1211242	6.2583 mg/kg	99
70)	Clorodibrmta	10.80	129	97987	0.5050 mg/kg	99
71)	12Dibrometha	10.96	107	104076	0.5172 mg/kg	99
72)	Chlorobenzen	11.63	112	288153	0.5085 mg/kg	98
73)	1Clhexane	11.59	91	145772	0.5148 mg/kg	97
74)	1112Tetclota	11.73	131	97305	0.4973 mg/kg	97
75)	Ethylbenzene	11.78	91	523590	0.5352 mg/kg	98
76)	m p-Xylene	11.94	106	387614	1.0484 mg/kg	99
77)	o-Xylene	12.50	106	184443	0.4869 mg/kg	94
78)	Styrene	12.51	104	297582	0.5015 mg/kg	98
79)	Bromoform	12.76	173	68055	0.5137 mg/kg	99
80)	Isopropylben	13.01	105	499779	0.5112 mg/kg	99
82)	cyclohexanone	13.13	55	157094	10.5142 mg/kg	97
84)	Bromobenzene	13.44	156	123967	0.5182 mg/kg	96
85)	1122Tetrclta	13.43	83	162909	0.5501 mg/kg	97
86)	123Triclproa	13.49	75	190981	0.5302 mg/kg	99
87)	14dichloro2butene	13.52	53	49909	0.5474 mg/kg	93
88)	n-Propylbenz	13.60	91	609938	0.5469 mg/kg	98
89)	2chlorotolue	13.72	91	339719	0.5075 mg/kg	99
90)	4chlorotolue	13.88	91	381694	0.5107 mg/kg	99
91)	135Trimebenz	13.86	105	405193	0.4942 mg/kg	99
92)	tbutylbenzen	14.32	119	353227	0.4977 mg/kg	99
93)	124Trimetben	14.40	105	404019	0.5021 mg/kg	99
94)	sbutylbenzen	14.64	105	542832	0.5261 mg/kg	100
95)	13Diclorbenz	14.80	146	229097	0.5105 mg/kg	99
96)	pIsopropylto	14.86	119	444514	0.5188 mg/kg	100
97)	14dichlorobe	14.93	146	233280	0.5187 mg/kg	96
98)	12dichlorobe	15.47	146	213118	0.5027 mg/kg	99
99)	nButylbenzen	15.46	91	421615	0.5386 mg/kg	99
100)	12dibromo3cl	16.58	157	35942	0.5477 mg/kg	95
101)	135Trichlorobenzene	16.88	180	147938	0.5094 mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCS1R.D Vial: 4
Acq On : 18 Nov 2019 16:52 Operator: RLD-DGS
Sample : 166497,LCSS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 17:12:56 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.70	180	133158	0.4970 mg/kg	97
103) Hexachlorobu	17.93	225	69190	0.5127 mg/kg	95
104) Naphthalene	18.01	128	394205	0.5461 mg/kg	98
105) 123Trichlben	18.32	180	126540	0.5130 mg/kg	98

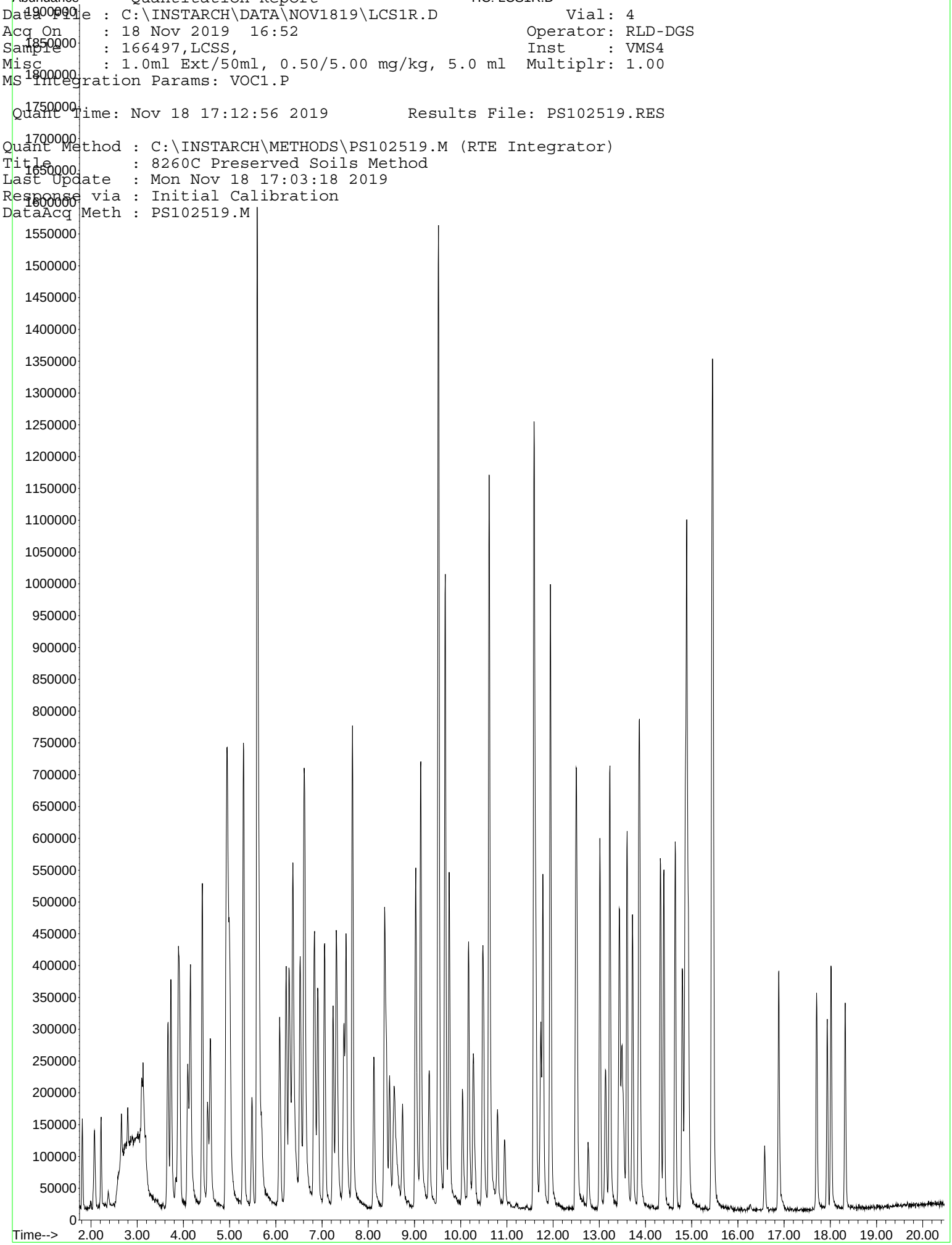
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCS1R.D

Data File : C:\INSTARCH\DATA\NOV1819\LCS1R.D Vial: 4
Acq On : 18 Nov 2019 16:52 Operator: RLD-DGS
Sample : 166497,LCSS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 17:12:56 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\MB1R.D Vial: 6
Acq On : 18 Nov 2019 17:49 Operator: RLD-DGS
Sample : 166497,MBS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 18:10:11 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	789071	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	640800	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	318104	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	212227	1.029	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103 %			
45) SURR12DCAd4	7.24	102	49867	0.980	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
61) SURRd8Tolule	9.67	98	789948	0.983	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
83) SURR4BrFBenz	13.23	95	291197	0.951	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.09	50	4140	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	5286	N.D.		
6) Chloroethane	2.81	64	1359	N.D.		
7) dichloroflmethane	3.05	67	3988	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.14	43	2166	N.D.		
16) Iodomethane	4.11	127	3048	0.1716	mg/kg#	70
17) Carbon Dislf	4.18	76	1348	N.D.		
18) allylchloride	4.50	41	1271	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.59	84	15233	0.0609	mg/kg	92
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	0.00	59	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.62	45	1136	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	6.65	42	1509	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\MB1R.D Vial: 6
Acq On : 18 Nov 2019 17:49 Operator: RLD-DGS
Sample : 166497,MBS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 18:10:11 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.58	91	1070	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	13.23	55	1328	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.40	75	1745	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\MB1R.D Vial: 6
Acq On : 18 Nov 2019 17:49 Operator: RLD-DGS
Sample : 166497,MBS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 18:10:11 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

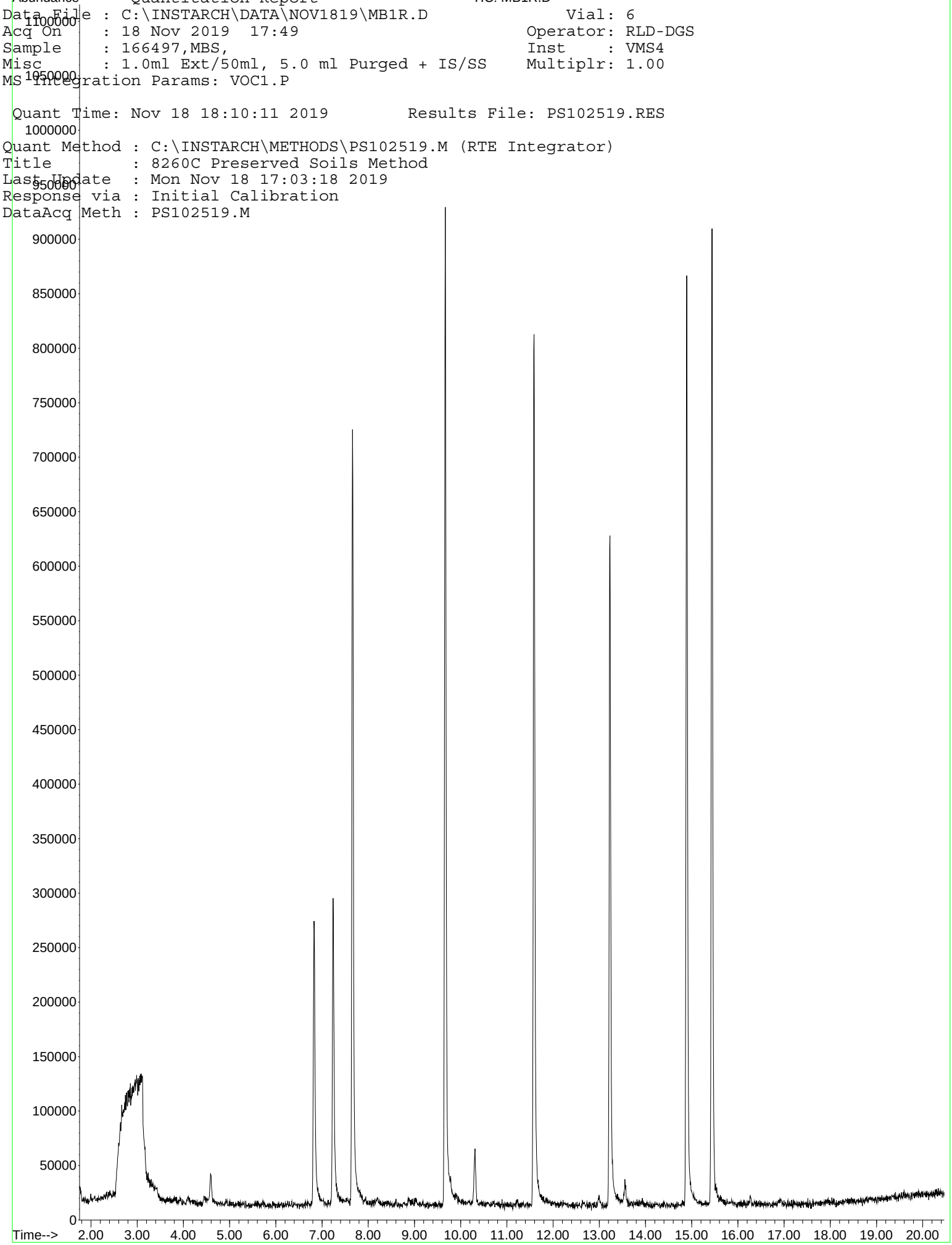
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102)	124Trichlobe	0.00	180	0	N.D.	
103)	Hexachlorobu	0.00	225	0	N.D.	
104)	Naphthalene	18.03	128	1304	N.D.	
105)	123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1819\MB1R.D Vial: 6
Acq On : 18 Nov 2019 17:49 Operator: RLD-DGS
Sample : 166497,MBS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 18 18:10:11 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCSD1R.D Vial: 25
Acq On : 19 Nov 2019 2:53 Operator: RLD-DGS
Sample : 166497,LCSDS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 03:13:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	882032	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	729877	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	388423	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	235141	1.019	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102 %			
45) SURR12DCAd4	7.24	102	55435	0.975	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
61) SURRd8Tolule	9.67	98	900615	1.002	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	344206	0.921	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	125169	0.4416	mg/kg	100
3) Chloromethan	2.08	50	178873	0.4334	mg/kg	99
4) VinylChlorid	2.21	62	150124	0.4846	mg/kg	99
5) Bromomethane	2.66	94	36608	0.6021	mg/kg	96
6) Chloroethane	2.79	64	53648	0.8122	mg/kg	95
7) dichloroflmethane	3.10	67	94169	0.7590	mg/kg	82
8) Trichlorofma	3.13	101	90307	0.4068	mg/kg	92
9) Ethylether	3.67	59	106097	0.4990	mg/kg	99
10) dichlorotfluoroethan	3.66	67	137799	0.5489	mg/kg	98
11) propyleneoxide	3.73	58	360212	6.3504	mg/kg	98
12) Acrolein	3.83	56	63642	3.0282	mg/kg	94
13) 11dichlorthe	3.89	96	106227	0.5268	mg/kg	99
14) Trichlorotfluoroeth	3.91	101	196061	1.1507	mg/kg	98
15) Acetone	4.10	43	512242	4.9415	mg/kg	96
16) Iodomethane	4.08	127	30360	0.5299	mg/kg	93
17) Carbon Dislf	4.15	76	513120	1.0356	mg/kg	99
18) allylchloride	4.40	41	458432	0.9542	mg/kg	96
19) methylacetate	4.52	74	64097	0.5719	mg/kg	96
20) Methylchlorid	4.59	84	130871	0.5556	mg/kg	95
21) Acrylonitrile	4.96	53	311520	2.7959	mg/kg	99
22) t12dichlorte	4.94	96	112307	0.5330	mg/kg	97
23) tbutylalcohol	4.93	59	1103463	26.2778	mg/kg	97
24) MtBE	5.00	73	298374	0.4856	mg/kg#	10
25) Hexane	5.30	57	418486	1.0269	mg/kg	99
26) 11dichlorota	5.48	63	237314	0.5289	mg/kg	96
27) Vinylacetate	5.60	43	2454546	5.7519	mg/kg	99
28) chloroprene	5.60	53	412061	1.0673	mg/kg	98
29) Diisopether	5.63	45	438826	0.5065	mg/kg	97
30) ETBE	6.08	59	339877	0.4821	mg/kg	100
31) 22dichloropr	6.21	77	151237	0.4496	mg/kg	98
32) c12dichlorte	6.23	96	123929	0.5215	mg/kg	92
33) 2Butanone	6.28	72	167351	5.5741	mg/kg	98
34) propionitrile	6.36	54	264965	5.4816	mg/kg	98
35) Ethylacetate	6.38	88	23285	2.7425	mg/kg#	83
36) methacrylonitrile	6.53	67	131143	1.1740	mg/kg	91
37) Bromochlorma	6.52	128	54720	0.5370	mg/kg	94
38) Tetrahydofur	6.61	42	581529	5.6742	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCSD1R.D Vial: 25
Acq On : 19 Nov 2019 2:53 Operator: RLD-DGS
Sample : 166497,LCSDS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 03:13:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	200924	0.5204 mg/kg	96
40)	111trichlota	6.85	97	165514	0.5013 mg/kg	97
42)	Cyclohexane	6.90	56	212128	0.5073 mg/kg	97
43)	Carbtetraclo	7.06	119	144954	0.5222 mg/kg	98
44)	11dicloprope	7.06	110	50843	0.4945 mg/kg	94
46)	Benzene	7.31	78	467366	0.5353 mg/kg	98
47)	12dichlorota	7.33	62	158414	0.5031 mg/kg	97
48)	TAME	7.48	73	283994	0.4722 mg/kg	97
49)	trichloroete	8.12	95	118568	0.5510 mg/kg	95
50)	methylcyclohexane	8.36	83	217672	0.5049 mg/kg	97
51)	12dicloropra	8.40	63	133509	0.4986 mg/kg	97
52)	23dicl1propene	8.46	75	147821	0.4675 mg/kg	99
53)	Dibromometha	8.55	93	73691	0.5260 mg/kg	95
54)	methylmethacrylate	8.57	69	74187	0.4727 mg/kg	100
55)	14dioxane	8.60	88	97201	27.1758 mg/kg	95
56)	Bromodiclrma	8.74	83	142358	0.5212 mg/kg	98
57)	2Nitropropane	9.03	43	508327	5.8763 mg/kg	99
58)	2CLEVE	9.14	63	441759	2.6367 mg/kg	100
59)	c13dicloproe	9.32	75	173965	0.4824 mg/kg	100
60)	4Meth2Pentan	9.52	43	1710721	5.8803 mg/kg	99
62)	Toluene	9.75	92	296436	0.5117 mg/kg	98
63)	t13Dicloprop	10.04	75	149650	0.4868 mg/kg	98
64)	ethylmethacrylate	10.17	69	300275	0.9591 mg/kg	98
65)	112Triclotha	10.27	83	87332	0.4993 mg/kg	98
66)	Tetrachlorte	10.48	166	125287	0.5226 mg/kg	99
67)	13Diclorpropa	10.49	76	178603	0.5156 mg/kg	100
69)	2Hexanone	10.62	43	1259360	5.9576 mg/kg	99
70)	Clorodibrmta	10.79	129	99091	0.4675 mg/kg	95
71)	12Dibrometha	10.95	107	105008	0.4778 mg/kg	97
72)	Chlorobenzen	11.63	112	299634	0.4841 mg/kg	97
73)	1Clhexane	11.60	91	151163	0.4887 mg/kg	98
74)	1112Tetclota	11.73	131	101373	0.4744 mg/kg	96
75)	Ethylbenzene	11.78	91	536226	0.5019 mg/kg	99
76)	m p-Xylene	11.95	106	410419	1.0164 mg/kg	98
77)	o-Xylene	12.49	106	200029	0.4835 mg/kg	96
78)	Styrene	12.51	104	317131	0.4894 mg/kg	99
79)	Bromoform	12.76	173	69742	0.4820 mg/kg	97
80)	Isopropylben	13.02	105	535943	0.5020 mg/kg	99
82)	cyclohexanone	13.14	55	157769	9.6329 mg/kg	99
84)	Bromobenzene	13.44	156	127067	0.4845 mg/kg	99
85)	1122Tetrclta	13.43	83	167007	0.5144 mg/kg	98
86)	123Triclproa	13.49	75	205242	0.5198 mg/kg	100
87)	14dichloro2butene	13.52	53	42612	0.4264 mg/kg	96
88)	n-Propylbenz	13.60	91	627186	0.5130 mg/kg	99
89)	2chlorotolue	13.72	91	362735	0.4944 mg/kg	99
90)	4chlorotolue	13.88	91	408872	0.4991 mg/kg	99
91)	135Trimebenz	13.86	105	434929	0.4839 mg/kg	99
92)	tbutylbenzen	14.33	119	379373	0.4876 mg/kg	99
93)	124Trimetben	14.40	105	430604	0.4882 mg/kg	99
94)	sbutylbenzen	14.64	105	568873	0.5030 mg/kg	99
95)	13Diclorbenz	14.80	146	239939	0.4877 mg/kg	100
96)	pIsopropylto	14.86	119	466232	0.4964 mg/kg	99
97)	14dichlorobe	14.93	146	243416	0.4937 mg/kg	98
98)	12dichlorobe	15.46	146	233982	0.5035 mg/kg	96
99)	nButylbenzen	15.46	91	443719	0.5171 mg/kg	99
100)	12dibromo3cl	16.58	157	33218	0.4618 mg/kg	98
101)	135Trichlorobenzene	16.89	180	154970	0.4868 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCSD1R.D Vial: 25
Acq On : 19 Nov 2019 2:53 Operator: RLD-DGS
Sample : 166497,LCSDS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 03:13:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.70	180	145781	0.4964	mg/kg	99
103) Hexachlorobu	17.94	225	70158	0.4742	mg/kg	97
104) Naphthalene	18.02	128	410072	0.5183	mg/kg	98
105) 123Trichlben	18.32	180	130970	0.4844	mg/kg	97

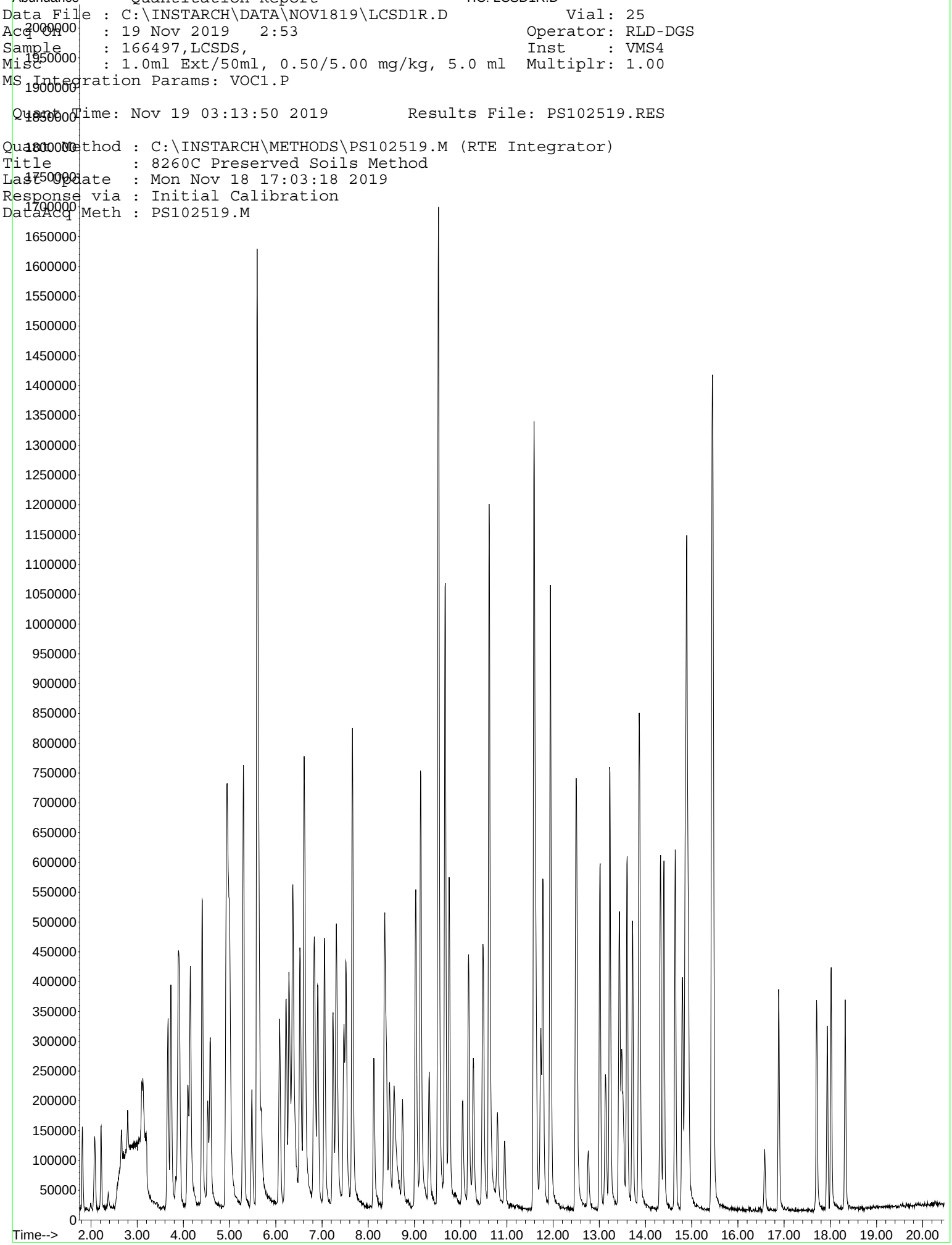
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCSD1R.D

Data File : C:\INSTARCH\DATA\NOV1819\LCSD1R.D Vial: 25
Acq On : 19 Nov 2019 2:53 Operator: RLD-DGS
Sample : 166497,LCSDS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 03:13:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Nov 18 17:03:18 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCS2R.D Vial: 30
Acq On : 19 Nov 2019 8:35 Operator: RLD-DGS
Sample : 165498,LCSS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 08:55:53 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	911206	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	752269	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	385503	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	240304	1.008	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
45) SURR12DCAd4	7.24	102	59999	1.021	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102 %			
61) SURRd8Tolule	9.67	98	930512	1.003	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	355942	0.960	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96 %			
Target Compounds						Qvalue
2) Dichlorodi	1.82	85	137559	0.4698	mg/kg	100
3) Chloromethan	2.08	50	187759	0.4404	mg/kg	99
4) VinylChlorid	2.22	62	169717	0.5303	mg/kg	99
5) Bromomethane	2.66	94	41257	0.6611	mg/kg	92
6) Chloroethane	2.80	64	53914	0.7901	mg/kg	93
7) dichloroflmethane	3.10	67	92984	0.7237	mg/kg	81
8) Trichlorofma	3.13	101	104084	0.4538	mg/kg	97
9) Ethylether	3.67	59	112585	0.5125	mg/kg	99
10) dichlorotfluoroethan	3.66	67	149285	0.5756	mg/kg	99
11) propyleneoxide	3.73	58	397060	6.7759	mg/kg	97
12) Acrolein	3.83	56	53064	2.4441	mg/kg	80
13) 11dichlorthe	3.89	96	113728	0.5459	mg/kg	95
14) Trichlorotfluoroeth	3.91	101	209423	1.1898	mg/kg	99
15) Acetone	4.09	43	556773	5.1991	mg/kg	96
16) Iodomethane	4.09	127	54052	0.8195	mg/kg	91
17) Carbon Dislf	4.15	76	561016	1.0961	mg/kg	99
18) allylchloride	4.41	41	503724	1.0149	mg/kg	96
19) methylacetate	4.52	74	70395	0.6080	mg/kg	95
20) Methylchlorid	4.59	84	138261	0.5686	mg/kg	93
21) Acrylonitrile	4.95	53	331215	2.8739	mg/kg	98
22) t12dichlorte	4.94	96	120374	0.5530	mg/kg	96
23) tbutylalcohol	4.92	59	1139742	26.2727	mg/kg	97
24) MtBE	4.99	73	325297	0.5125	mg/kg#	74
25) Hexane	5.30	57	484938	1.1518	mg/kg	98
26) 11dichlorota	5.49	63	244785	0.5281	mg/kg	100
27) Vinylacetate	5.59	43	2724484	6.1801	mg/kg	100
28) chloroprene	5.60	53	438972	1.1006	mg/kg	99
29) Diisopether	5.63	45	477648	0.5337	mg/kg	95
30) ETBE	6.08	59	368111	0.5054	mg/kg	98
31) 22dichloropr	6.21	77	190968	0.5495	mg/kg	100
32) c12dichlorte	6.22	96	134796	0.5490	mg/kg	95
33) 2Butanone	6.28	72	185568	5.9830	mg/kg	98
34) propionitrile	6.35	54	282945	5.6531	mg/kg	98
35) Ethylacetate	6.38	88	25967	2.9479	mg/kg	99
36) methacrylonitrile	6.53	67	135466	1.1739	mg/kg	95
37) Bromochlorma	6.52	128	62129	0.5902	mg/kg	91
38) Tetrahydofur	6.61	42	603307	5.6982	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCS2R.D Vial: 30
Acq On : 19 Nov 2019 8:35 Operator: RLD-DGS
Sample : 165498,LCSS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 08:55:53 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.63	83	215223	0.5396 mg/kg	100
40)	111trichlota	6.84	97	182304	0.5345 mg/kg	98
42)	Cyclohexane	6.91	56	224737	0.5202 mg/kg	99
43)	Carbtetraclo	7.06	119	156784	0.5467 mg/kg	98
44)	11dicloprope	7.06	110	54254	0.5108 mg/kg	91
46)	Benzene	7.31	78	487139	0.5401 mg/kg	98
47)	12dichlorota	7.34	62	167734	0.5157 mg/kg	99
48)	TAME	7.47	73	310031	0.4990 mg/kg	96
49)	trichloroete	8.12	95	127551	0.5738 mg/kg	96
50)	methylcyclohexane	8.35	83	243035	0.5457 mg/kg	98
51)	12dicloropra	8.39	63	150070	0.5425 mg/kg	97
52)	23dicl1propene	8.46	75	162233	0.4966 mg/kg	98
53)	Dibromometha	8.54	93	79449	0.5490 mg/kg	93
54)	methylmethacrylate	8.57	69	79014	0.4864 mg/kg	97
55)	14dioxane	8.60	88	103607	28.0394 mg/kg	91
56)	Bromodiclrma	8.74	83	149630	0.5303 mg/kg	99
57)	2Nitropropane	9.02	43	559597	6.2619 mg/kg	96
58)	2CLEVE	9.14	63	489348	2.8272 mg/kg	99
59)	c13dicloproe	9.31	75	194471	0.5220 mg/kg	99
60)	4Meth2Pentan	9.51	43	1815594	6.0409 mg/kg	100
62)	Toluene	9.75	92	320757	0.5360 mg/kg	98
63)	t13Dicloprop	10.04	75	164281	0.5173 mg/kg	95
64)	ethylmethacrylate	10.17	69	326747	1.0102 mg/kg	98
65)	112Triclotha	10.27	83	97134	0.5375 mg/kg	96
66)	Tetrachlorte	10.48	166	133205	0.5379 mg/kg	98
67)	13Diclorpropa	10.50	76	194050	0.5422 mg/kg	97
69)	2Hexanone	10.62	43	1333659	6.1213 mg/kg	99
70)	Clorodibrmta	10.80	129	109424	0.5009 mg/kg	97
71)	12Dibrometha	10.95	107	120720	0.5329 mg/kg	97
72)	Chlorobenzen	11.63	112	330875	0.5186 mg/kg	99
73)	1Clhexane	11.59	91	164512	0.5161 mg/kg	98
74)	1112Tetclota	11.73	131	109239	0.4960 mg/kg	96
75)	Ethylbenzene	11.78	91	573134	0.5204 mg/kg	99
76)	m p-Xylene	11.94	106	428595	1.0298 mg/kg	99
77)	o-Xylene	12.50	106	214657	0.5034 mg/kg	95
78)	Styrene	12.51	104	344398	0.5156 mg/kg	100
79)	Bromoform	12.77	173	77342	0.5187 mg/kg	96
80)	Isopropylben	13.01	105	555855	0.5051 mg/kg	99
82)	cyclohexanone	13.14	55	166659	10.2528 mg/kg	98
84)	Bromobenzene	13.44	156	139964	0.5378 mg/kg	99
85)	1122Tetrclta	13.43	83	181787	0.5642 mg/kg	100
86)	123Triclproa	13.49	75	215879	0.5509 mg/kg	98
87)	14dichloro2butene	13.52	53	55686	0.5614 mg/kg	93
88)	n-Propylbenz	13.60	91	670419	0.5525 mg/kg	99
89)	2chlorotolue	13.72	91	380358	0.5223 mg/kg	97
90)	4chlorotolue	13.88	91	425344	0.5231 mg/kg	100
91)	135Trimebenz	13.86	105	462698	0.5187 mg/kg	99
92)	tbutylbenzen	14.33	119	387651	0.5021 mg/kg	98
93)	124Trimetben	14.40	105	454766	0.5195 mg/kg	99
94)	sbutylbenzen	14.64	105	595294	0.5303 mg/kg	99
95)	13Diclorbenz	14.80	146	252268	0.5167 mg/kg	97
96)	pIsopropylto	14.86	119	497514	0.5337 mg/kg	99
97)	14dichlorobe	14.93	146	256780	0.5248 mg/kg	99
98)	12dichlorobe	15.47	146	251001	0.5442 mg/kg	98
99)	nButylbenzen	15.46	91	476237	0.5593 mg/kg	98
100)	12dibromo3cl	16.58	157	35846	0.5021 mg/kg	97
101)	135Trichlorobenzene	16.89	180	169128	0.5353 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCS2R.D Vial: 30
Acq On : 19 Nov 2019 8:35 Operator: RLD-DGS
Sample : 165498,LCSS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 08:55:53 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.70	180	159952	0.5487	mg/kg	96
103) Hexachlorobu	17.93	225	73412	0.5000	mg/kg	96
104) Naphthalene	18.02	128	445023	0.5667	mg/kg	99
105) 123Trichlben	18.32	180	150718	0.5617	mg/kg	96

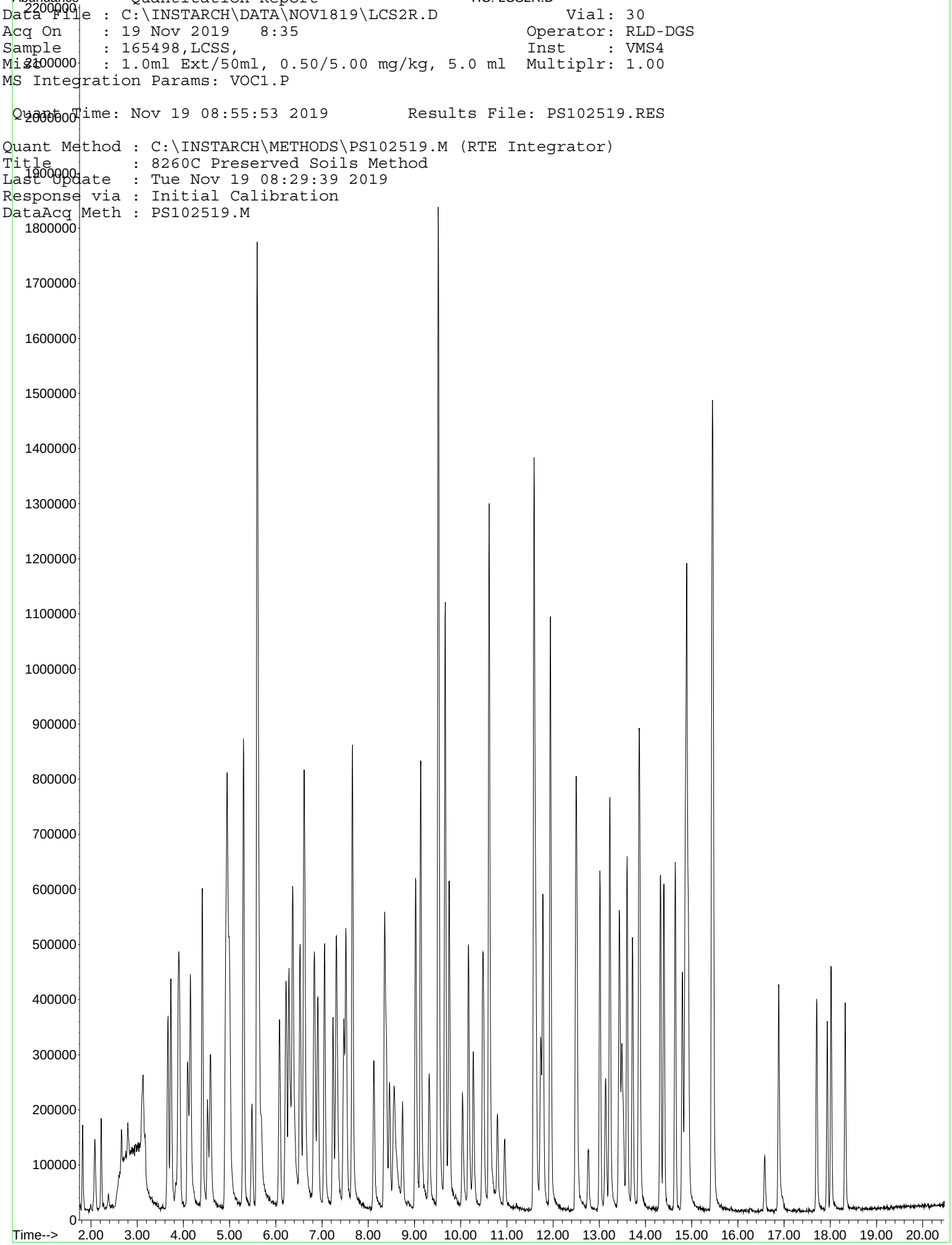
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCS2R.D

Data File : C:\INSTARCH\DATA\NOV1819\LCS2R.D Vial: 30
Acq On : 19 Nov 2019 8:35 Operator: RLD-DGS
Sample : 165498,LCSS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 08:55:53 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\MB2-CCB1R.D Vial: 32
Acq On : 19 Nov 2019 9:32 Operator: RLD-DGS
Sample : 165498,MBS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 09:52:46 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	866654	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	693364	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.90	152	354350	1.00	mg/kg	0.00 NA%

System Monitoring Compounds						
41) SURRDibrflma	6.83	113	226683	1.000	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
45) SURR12DCAd4	7.25	102	54723	0.979	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98 %			
61) SURRd8Tolule	9.67	98	869132	0.985	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99 %			
83) SURR4BrFBenz	13.23	95	322656	0.946	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95 %			

Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.06	50	1867	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.66	94	2756	Below Cal #		40
6) Chloroethane	2.71	64	1099	N.D.		
7) dichloroflmethane	3.03	67	1309	Below Cal #		38
8) Trichlorofma	3.12	101	1347	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	0.00	67	0	N.D.		
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	0.00	43	0	N.D.		
16) Iodomethane	4.09	127	4345	0.1851	mg/kg#	75
17) Carbon Dislf	0.00	76	0	N.D.		
18) allylchloride	4.44	41	1045	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.58	84	16772	0.0611	mg/kg	97
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	0.00	59	0	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	0.00	57	0	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	0.00	43	0	N.D.		
28) chloroprene	0.00	53	0	N.D.		
29) Diisopether	5.71	45	1011	N.D.		
30) ETBE	0.00	59	0	N.D.		
31) 22dichloropr	0.00	77	0	N.D.		
32) c12dichlorte	0.00	96	0	N.D.		
33) 2Butanone	0.00	72	0	N.D.		
34) propionitrile	0.00	54	0	N.D.		
35) Ethylacetate	0.00	88	0	N.D.		
36) methacrylonitrile	0.00	67	0	N.D.		
37) Bromochlorma	0.00	128	0	N.D.		
38) Tetrahydofur	0.00	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\MB2-CCB1R.D Vial: 32
Acq On : 19 Nov 2019 9:32 Operator: RLD-DGS
Sample : 165498,MBS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 09:52:46 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	9.00	43	1104	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.59	91	2047	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
82)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	13.45	75	2903	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.43	91	1258	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\MB2-CCB1R.D Vial: 32
Acq On : 19 Nov 2019 9:32 Operator: RLD-DGS
Sample : 165498,MBS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 09:52:46 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	0.00	180	0	N.D.		
103)	Hexachlorobu	0.00	225	0	N.D.		
104)	Naphthalene	0.00	128	0	N.D.		
105)	123Trichlben	0.00	180	0	N.D.		

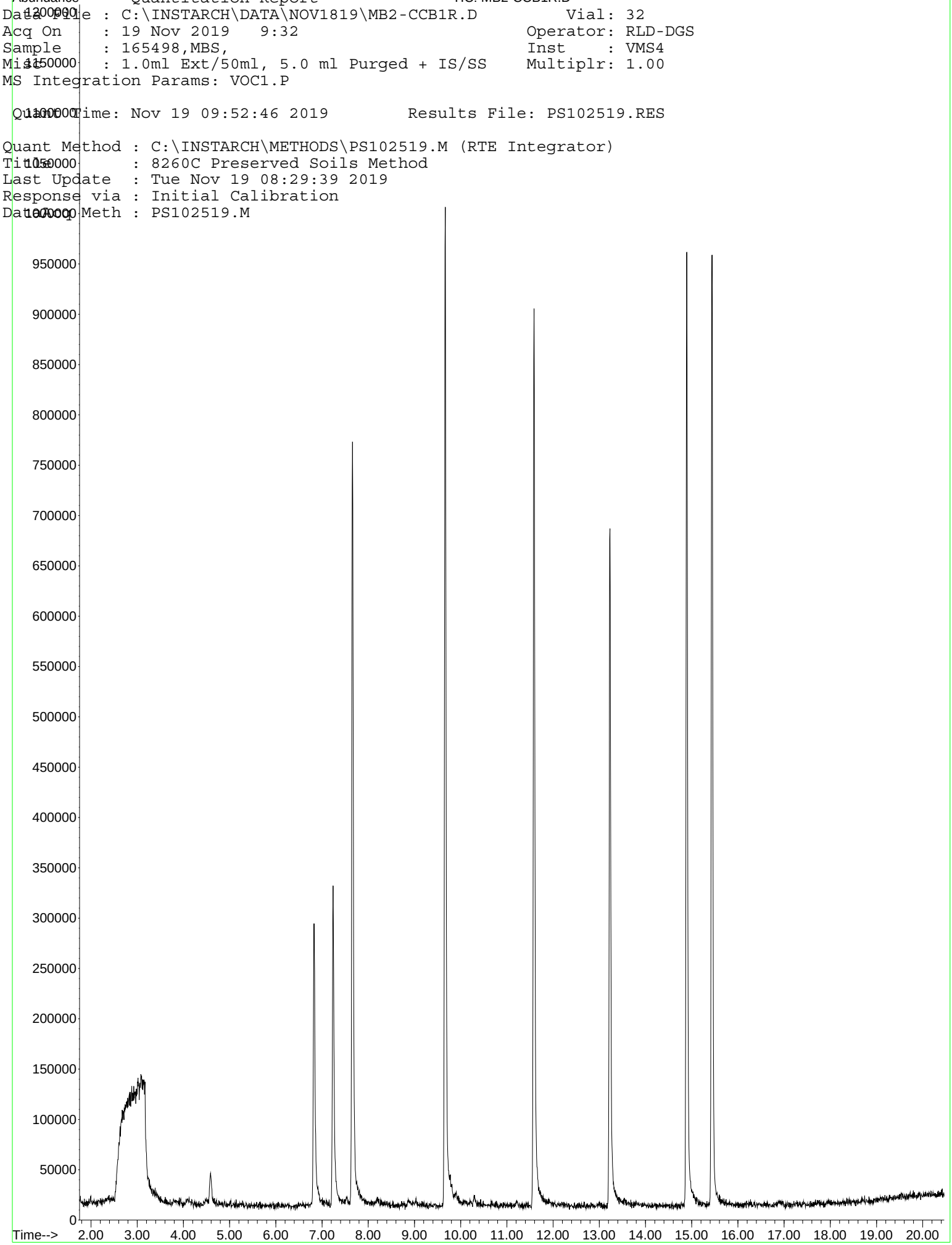
(#) = qualifier out of range (m) = manual integration

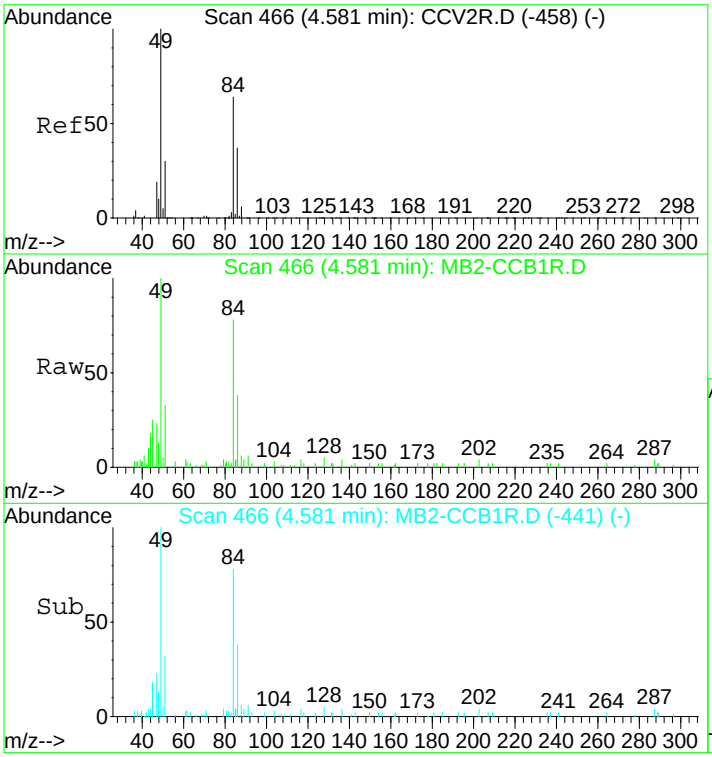
Abundance Quantitation Report TIC: MB2-CCB1R.D

Data File : C:\INSTARCH\DATA\NOV1819\MB2-CCB1R.D Vial: 32
Acq On : 19 Nov 2019 9:32 Operator: RLD-DGS
Sample : 165498,MBS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 09:52:46 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
Data Path Meth : PS102519.M

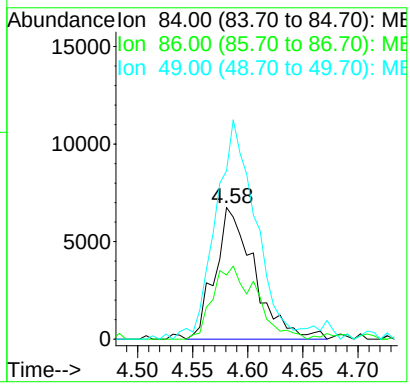




#20
Methylchlorid
Concen: 0.06 mg/kg
RT: 4.58 min Scan# 466
Delta R.T. 0.00 min
Lab File: MB2-CCB1R.D
Acq: 19 Nov 2019 9:32

Tgt Ion: 84 Resp: 16772

Ion	Ratio	Lower	Upper
84	100		
86	61.5	45.3	85.3
49	176.7	153.2	193.2



E-1635

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCSD2R.D Vial: 44
Acq On : 19 Nov 2019 15:15 Operator: RLD-DGS
Sample : 166498,LCSDS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 15:35:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.66	96	931142	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.59	117	768388	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	14.89	152	414651	1.00	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.83	113	254706	1.046	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105 %			
45) SURR12DCAd4	7.25	102	60835	1.013	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101 %			
61) SURRd8Tolule	9.67	98	947632	0.999	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100 %			
83) SURR4BrFBenz	13.23	95	364396	0.913	mg/kg	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91 %			
Target Compounds						Qvalue
2) Dichlorodi	1.81	85	139848	0.4674	mg/kg	97
3) Chloromethan	2.08	50	199283	0.4574	mg/kg	97
4) VinylChlorid	2.21	62	161232	0.4930	mg/kg	97
5) Bromomethane	2.66	94	43720	0.6871	mg/kg	93
6) Chloroethane	2.80	64	56898	0.8160	mg/kg	88
7) dichloroflmethane	3.10	67	94854	0.7224	mg/kg	89
8) Trichlorofma	3.13	101	96540	0.4119	mg/kg	90
9) Ethylether	3.67	59	111425	0.4964	mg/kg	96
10) dichlorotfluoroethan	3.66	67	148397	0.5599	mg/kg	99
11) propyleneoxide	3.73	58	402136	6.7156	mg/kg	96
12) Acrolein	3.83	56	62847	2.8327	mg/kg	100
13) 11dichlorthe	3.89	96	111903	0.5256	mg/kg	96
14) Trichlorotfluoroeth	3.91	101	206663	1.1490	mg/kg	98
15) Acetone	4.09	43	555560	5.0767	mg/kg	99
16) Iodomethane	4.08	127	42529	0.6611	mg/kg	99
17) Carbon Dislf	4.15	76	539142	1.0308	mg/kg	99
18) allylchloride	4.40	41	501733	0.9893	mg/kg	97
19) methylacetate	4.53	74	68710	0.5808	mg/kg	92
20) Methylchlorid	4.58	84	134248	0.5393	mg/kg	95
21) Acrylonitrile	4.96	53	337426	2.8655	mg/kg	98
22) t12dichlorte	4.94	96	118514	0.5328	mg/kg	98
23) tbutylalcohol	4.93	59	1174570	26.4958	mg/kg	98
24) MtBE	5.00	73	305618	0.4711	mg/kg#	35
25) Hexane	5.30	57	456307	1.0606	mg/kg	99
26) 11dichlorota	5.48	63	245407	0.5181	mg/kg	97
27) Vinylacetate	5.60	43	2624472	5.8258	mg/kg	100
28) chloroprene	5.60	53	430500	1.0563	mg/kg	100
29) Diisopether	5.63	45	474798	0.5191	mg/kg	100
30) ETBE	6.08	59	364638	0.4899	mg/kg	99
31) 22dichloropr	6.22	77	169817	0.4782	mg/kg	98
32) c12dichlorte	6.23	96	133029	0.5302	mg/kg	94
33) 2Butanone	6.29	72	182299	5.7517	mg/kg	98
34) propionitrile	6.36	54	284436	5.5675	mg/kg	97
35) Ethylacetate	6.36	88	26919	2.9882	mg/kg#	95
36) methacrylonitrile	6.53	67	131774	1.1175	mg/kg	96
37) Bromochlorma	6.52	128	56518	0.5254	mg/kg	92
38) Tetrahydofur	6.61	42	613802	5.6732	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCSD2R.D Vial: 44
Acq On : 19 Nov 2019 15:15 Operator: RLD-DGS
Sample : 166498,LCSDS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 15:35:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.62	83	209339	0.5136 mg/kg	98
40)	111trichlota	6.84	97	185112	0.5311 mg/kg	96
42)	Cyclohexane	6.91	56	221522	0.5018 mg/kg	96
43)	Carbtetraclo	7.05	119	149434	0.5099 mg/kg	99
44)	11dicloprope	7.06	110	58414	0.5382 mg/kg	93
46)	Benzene	7.31	78	489235	0.5308 mg/kg	99
47)	12dichlorota	7.34	62	171869	0.5171 mg/kg	98
48)	TAME	7.48	73	294502	0.4638 mg/kg	92
49)	trichloroete	8.12	95	124174	0.5466 mg/kg	99
50)	methylcyclohexane	8.36	83	239347	0.5259 mg/kg	95
51)	12dicloropra	8.39	63	142986	0.5058 mg/kg	99
52)	23dicl1propene	8.46	75	167133	0.5007 mg/kg	97
53)	Dibromometha	8.55	93	75295	0.5091 mg/kg	92
54)	methylmethacrylate	8.57	69	78134	0.4717 mg/kg	98
55)	14dioxane	8.61	88	99055	26.2335 mg/kg	99
56)	Bromodiclrma	8.74	83	144835	0.5023 mg/kg	98
57)	2Nitropropane	9.03	43	535868	5.8680 mg/kg	98
58)	2CLEVE	9.14	63	486734	2.7519 mg/kg	99
59)	c13dicloproe	9.31	75	189955	0.4989 mg/kg	100
60)	4Meth2Pentan	9.51	43	1838914	5.9875 mg/kg	99
62)	Toluene	9.75	92	323181	0.5285 mg/kg	100
63)	t13Dicloprop	10.04	75	157856	0.4864 mg/kg	98
64)	ethylmethacrylate	10.17	69	334271	1.0113 mg/kg	97
65)	112Triclotha	10.27	83	101141	0.5477 mg/kg	96
66)	Tetrachlorte	10.48	166	128905	0.5094 mg/kg	97
67)	13Diclorpropa	10.49	76	185056	0.5060 mg/kg	95
69)	2Hexanone	10.62	43	1352641	6.0782 mg/kg	99
70)	Clorodibrmta	10.80	129	110541	0.4954 mg/kg	99
71)	12Dibrometha	10.96	107	117054	0.5059 mg/kg	97
72)	Chlorobenzen	11.63	112	332095	0.5096 mg/kg	98
73)	1Clhexane	11.59	91	164679	0.5057 mg/kg	97
74)	1112Tetclota	11.73	131	112396	0.4996 mg/kg	98
75)	Ethylbenzene	11.78	91	577180	0.5131 mg/kg	98
76)	m p-Xylene	11.94	106	431436	1.0149 mg/kg	99
77)	o-Xylene	12.50	106	209568	0.4811 mg/kg	91
78)	Styrene	12.51	104	342609	0.5022 mg/kg	100
79)	Bromoform	12.76	173	73504	0.4826 mg/kg	98
80)	Isopropylben	13.02	105	560565	0.4987 mg/kg	99
82)	cyclohexanone	13.14	55	178139	10.1887 mg/kg	98
84)	Bromobenzene	13.44	156	137658	0.4917 mg/kg	96
85)	1122Tetrclta	13.43	83	178614	0.5154 mg/kg	100
86)	123Triclproa	13.49	75	214652	0.5093 mg/kg	96
87)	14dichloro2butene	13.53	53	45681	0.4282 mg/kg	94
88)	n-Propylbenz	13.60	91	670751	0.5139 mg/kg	96
89)	2chlorotolue	13.72	91	382429	0.4883 mg/kg	100
90)	4chlorotolue	13.87	91	445977	0.5099 mg/kg	97
91)	135Trimebenz	13.86	105	466510	0.4863 mg/kg	100
92)	tbutylbenzen	14.32	119	401124	0.4830 mg/kg	99
93)	124Trimetben	14.40	105	449737	0.4776 mg/kg	98
94)	sbutylbenzen	14.64	105	610310	0.5055 mg/kg	99
95)	13Diclorbenz	14.80	146	262718	0.5003 mg/kg	99
96)	pIsopropylto	14.86	119	510293	0.5089 mg/kg	100
97)	14dichlorobe	14.93	146	258156	0.4905 mg/kg	99
98)	12dichlorobe	15.47	146	252924	0.5098 mg/kg	99
99)	nButylbenzen	15.46	91	483003	0.5273 mg/kg	98
100)	12dibromo3cl	16.58	157	38836	0.5057 mg/kg	97
101)	135Trichlorobenzene	16.89	180	172088	0.5064 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1819\LCSD2R.D Vial: 44
Acq On : 19 Nov 2019 15:15 Operator: RLD-DGS
Sample : 166498,LCSDS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 15:35:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.70	180	153537	0.4897	mg/kg	99
103) Hexachlorobu	17.93	225	72700	0.4603	mg/kg	98
104) Naphthalene	18.02	128	454714	0.5384	mg/kg	98
105) 123Trichlben	18.32	180	140517	0.4868	mg/kg	97

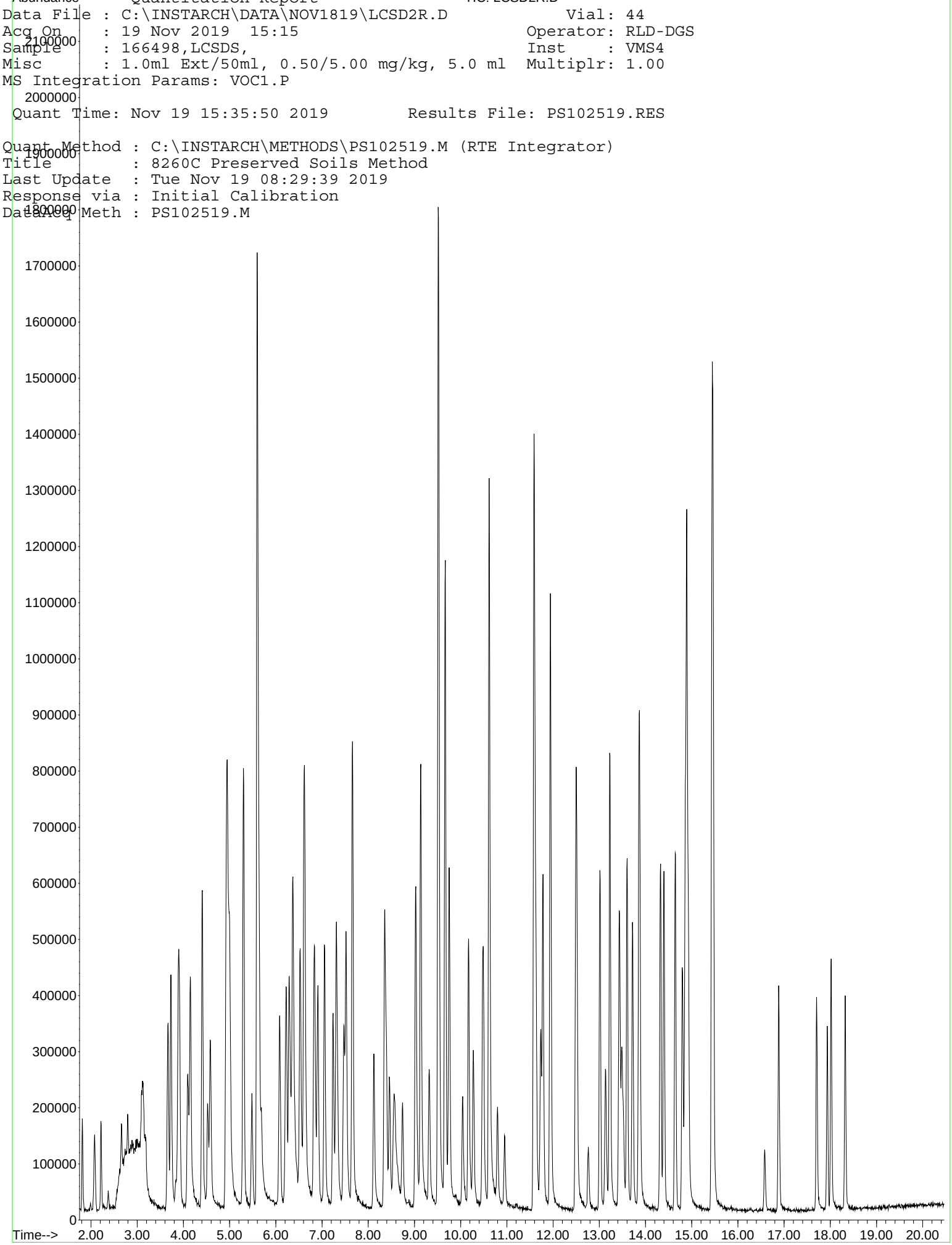
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCSD2R.D

Data File : C:\INSTARCH\DATA\NOV1819\LCSD2R.D Vial: 44
Acq On : 19 Nov 2019 15:15 Operator: RLD-DGS
Sample : 166498,LCSDS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Nov 19 15:35:50 2019 Results File: PS102519.RES

Quant Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Nov 19 08:29:39 2019
Response via : Initial Calibration
DataAcq Meth : PS102519.M



Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS1.D Vial: 2
Acq On : 14 Nov 2019 13:15 Operator: RLD-DGS
Sample : 166500,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 14 13:35:35 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1136498	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	875878	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	483248	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	291592	20.035	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.20	102	87681	21.836	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 109	%		
61) SURRd8Tolule	9.63	98	1095347	19.787	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99	%		
83) SURR4BrFBenz	13.17	95	444027	20.317	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 102	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	160925	11.0210	ug/L	97
3) Chloromethan	2.09	50	134411	9.5811	ug/L	97
4) VinylChlorid	2.24	62	180536	10.1368	ug/L	99
5) Bromomethane	2.71	94	99689	9.7645	ug/L	95
6) Chloroethane	2.86	64	142603	9.6784	ug/L	96
7) Dichloroflmethane	3.16	67	253088	9.8692	ug/L	97
8) Trichlorofma	3.23	101	246593	10.7171	ug/L	100
9) Ethylether	3.67	59	109807	10.6724	ug/L	92
10) dichlorotfluoroethan	3.68	67	160247	10.6425	ug/L	95
11) propyleneoxide	3.73	58	226497	170.8603	ug/L	93
12) Acrolein	3.81	56	89721	42.9698	ug/L	95
13) 11dichlorthe	3.95	96	131217	9.9727	ug/L	94
14) Trichlorotfluoroeth	3.99	101	268682	22.1778	ug/L	99
15) Acetone	4.03	43	232063	88.5285	ug/L	98
16) Iodomethane	4.13	142	111778	18.5160	ug/L	93
17) Carbon Dislf	4.21	76	705563	21.5990	ug/L	100
18) allylchloride	4.43	41	381438	20.5724	ug/L	99
19) methylacetate	4.50	74	50484	9.2771	ug/L	92
20) Methylchlorid	4.59	84	149233	9.2733	ug/L	94
21) tbutylalcohol	4.79	59	234862	257.4024	ug/L	94
22) Acrylonitrile	4.90	53	163067	46.2503	ug/L	97
23) t12dichlorte	4.96	96	145645	9.9956	ug/L	96
24) MtBE	4.98	73	395852	10.0323	ug/L	97
25) Hexane	5.35	57	394996	24.5370	ug/L	99
26) 11dichlorota	5.47	63	252588	9.8508	ug/L	98
27) Vinylacetate	5.57	43	1963918	113.0166	ug/L	99
28) chloroprene	5.61	53	410700	21.6068	ug/L	95
29) Diisopether	5.62	45	383602	9.9418	ug/L	98
30) ETBE	6.07	59	378594	9.9582	ug/L	97
31) 22dichloropr	6.21	77	256920	11.3343	ug/L	97
32) c12dichlorte	6.21	96	162727	9.6832	ug/L	96
33) 2Butanone	6.23	72	129782	89.2485	ug/L	99
34) propionitrile	6.28	54	106780	82.8526	ug/L	93
35) Ethylacetate	6.33	88	26453	47.0023	ug/L	95
36) methacrylonitrile	6.47	67	116917	20.3562	ug/L	98
37) Bromochlorma	6.50	128	69312	9.0665	ug/L	94
38) Tetrahydofur	6.57	42	296006	91.2178	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS1.D Vial: 2
Acq On : 14 Nov 2019 13:15 Operator: RLD-DGS
Sample : 166500,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 14 13:35:35 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.59	83	263241	9.5349	ug/L		99
40)	111trichlota	6.84	97	246556	10.2052	ug/L		95
42)	Cyclohexane	6.92	56	229653	11.5143	ug/L		97
43)	Carbtetraclo	7.05	119	208212	10.7951	ug/L		97
44)	11dicloprope	7.04	110	75502	10.3017	ug/L		98
46)	Benzene	7.29	78	606493	10.2337	ug/L		98
47)	12dichlorota	7.30	62	202820	9.7434	ug/L		100
48)	TAME	7.46	73	387400	9.9430	ug/L		97
49)	trichloroete	8.10	95	154329	9.7676	ug/L		96
50)	methylcyclohexane	8.36	83	304695	10.5437	ug/L		98
51)	12dicloropra	8.35	63	152536	9.7939	ug/L		100
52)	23Dicl1propene	8.42	75	210214	9.3459	ug/L		96
53)	Dibromometha	8.50	93	94670	9.9829	ug/L		96
54)	methylmethacrylate	8.53	69	96359	9.9095	ug/L		98
55)	14dioxane	8.55	88	5275	67.2711	ug/L	#	37
56)	Bromodiclrma	8.70	83	197253	9.6936	ug/L		98
57)	2Nitropropane	8.96	43	363032	99.9135	ug/L		99
58)	2CLEVE	9.09	63	372335	59.9755	ug/L		97
59)	c13dicloproe	9.28	75	242451	10.3785	ug/L		97
60)	4Meth2Pentan	9.47	43	1060941	99.0251	ug/L		99
62)	Toluene	9.72	92	410629	10.1534	ug/L		98
63)	t13Dicloprop	9.99	75	218299	10.4389	ug/L		98
64)	ethylmethacrylate	10.13	69	387938	20.9189	ug/L		99
65)	112Triclotha	10.22	83	111359	9.5630	ug/L		95
66)	Tetrachlorte	10.45	166	168512	10.3229	ug/L		97
67)	13Diclorpropa	10.44	76	238724	9.7245	ug/L		98
69)	2Hexanone	10.56	43	755058	97.3740	ug/L		98
70)	Clorodibrmta	10.74	129	137406	9.6549	ug/L		95
71)	12Dibrometha	10.89	107	135581	10.2455	ug/L		98
72)	Chlorobenzen	11.58	112	421603	10.1491	ug/L		99
73)	1Clhexane	11.56	91	218152	11.1172	ug/L		98
74)	1112Tetclota	11.68	131	147071	9.8908	ug/L		98
75)	Ethylbenzene	11.74	91	721977	10.7479	ug/L		99
76)	m p-Xylene	11.90	106	564631	21.6078	ug/L		100
77)	o-Xylene	12.45	106	270853	10.2141	ug/L		100
78)	Styrene	12.46	104	435296	10.5268	ug/L		99
79)	Bromoform	12.69	173	79662	9.2804	ug/L		96
80)	Isopropylben	12.97	105	705060	11.2998	ug/L		100
81)	cyclohexanone	13.07	55	19683	70.6342	ug/L		95
84)	Bromobenzene	13.38	156	174383	9.7582	ug/L		99
85)	1122Tetrclta	13.35	83	183909	9.7722	ug/L		92
86)	123Triclproa	13.41	75	231891	9.9607	ug/L		97
87)	14dichloro2butene	13.45	53	46062	10.1500	ug/L		92
88)	n-Propylbenz	13.56	91	826836	11.4972	ug/L		99
89)	2chlorotolue	13.67	91	492886	10.6598	ug/L		98
90)	4chlorotolue	13.82	91	568669	10.6284	ug/L		99
91)	135Trimebenz	13.81	105	587345	11.1897	ug/L		98
92)	tbutylbenzen	14.28	119	505812	11.3803	ug/L		98
93)	124Trimetben	14.35	105	579196	10.9612	ug/L		99
94)	sbutylbenzen	14.60	105	735077	12.1308	ug/L		99
95)	13Diclorbenz	14.74	146	329648	10.3314	ug/L		99
96)	pIsopropylto	14.81	119	637205	11.8927	ug/L		100
97)	14dichlorobe	14.87	146	339724	10.1682	ug/L		93
98)	12dichlorobe	15.40	146	323494	10.4432	ug/L		98
99)	nButylbenzen	15.41	91	585181	11.9618	ug/L		99
100)	12dibromo3cl	16.50	157	34789	10.3047	ug/L		83
101)	135Trichlorobenzene	16.83	180	220437	11.0019	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS1.D Vial: 2
Acq On : 14 Nov 2019 13:15 Operator: RLD-DGS
Sample : 166500,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 14 13:35:35 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

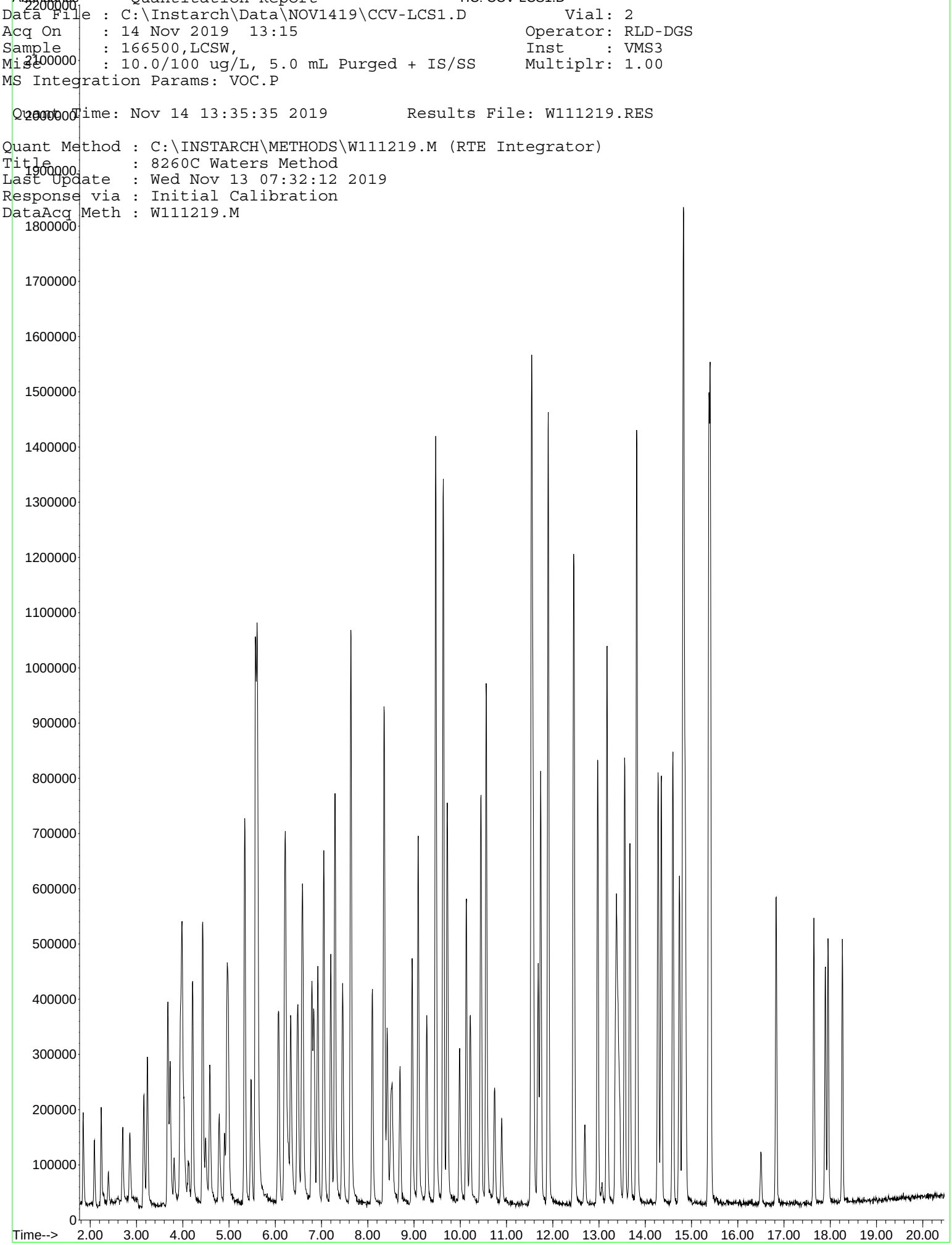
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	194812	11.1035	ug/L	99
103) Hexachlorobu	17.90	225	94894	11.1187	ug/L	100
104) Naphthalene	17.95	128	455191	10.9236	ug/L	99
105) 123Trichlben	18.26	180	172088	10.8229	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\Instarch\Data\NOV1419\CCV-LCS1.D Vial: 2
Acq On : 14 Nov 2019 13:15 Operator: RLD-DGS
Sample : 166500,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 14 13:35:35 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\MB1.D Vial: 4
Acq On : 14 Nov 2019 14:14 Operator: RLD-DGS
Sample : 166500,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:54 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1036380	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	805961	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	422763	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	265460	20.001	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.20	102	77987	21.298	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 106	%		
61) SURRd8Tolule	9.63	98	1000540	19.820	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99	%		
83) SURR4BrFBenz	13.17	95	386538	20.217	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101	%		

Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	0.00	50	0	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	2.79	64	2460	N.D.	
7) Dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.07	43	4398	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.20	76	2701	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	0.00	84	0	N.D.	
21) tbutylalcohol	4.80	59	2083	N.D.	
22) Acrylonitrile	0.00	53	0	N.D.	
23) t12dichlorte	0.00	96	0	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\MB1.D Vial: 4
Acq On : 14 Nov 2019 14:14 Operator: RLD-DGS
Sample : 166500,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:54 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.		
40)	111trichlota	0.00	97	0	N.D.		
42)	Cyclohexane	0.00	56	0	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	0.00	78	0	N.D.		
47)	12dichlorota	0.00	62	0	N.D.		
48)	TAME	0.00	73	0	N.D.		
49)	trichloroete	0.00	95	0	N.D.		
50)	methylcyclohexane	0.00	83	0	N.D.		
51)	12dicloropra	0.00	63	0	N.D.		
52)	23Dicl1propene	0.00	75	0	N.D.		
53)	Dibromometha	0.00	93	0	N.D.		
54)	methylmethacrylate	0.00	69	0	N.D.		
55)	14dioxane	0.00	88	0	N.D.		
56)	Bromodiclrma	0.00	83	0	N.D.		
57)	2Nitropropane	0.00	43	0	N.D.		
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	0.00	43	0	N.D.		
62)	Toluene	0.00	92	0	N.D.		
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	0.00	166	0	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	0.00	43	0	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	0.00	112	0	N.D.		
73)	1Clhexane	0.00	91	0	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	0.00	91	0	N.D.		
76)	m p-Xylene	0.00	106	0	N.D.		
77)	o-Xylene	0.00	106	0	N.D.		
78)	Styrene	0.00	104	0	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	0.00	105	0	N.D.		
81)	cyclohexanone	0.00	55	0	N.D.		
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	0.00	91	0	N.D.		
89)	2chlorotolue	0.00	91	0	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	0.00	105	0	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	0.00	105	0	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	14.85	146	2391	N.D.		
96)	pIsopropylto	14.82	119	17315	0.3694	ug/L #	90
97)	14dichlorobe	14.85	146	2736	N.D.		
98)	12dichlorobe	0.00	146	0	N.D.		
99)	nButylbenzen	0.00	91	0	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\MB1.D Vial: 4
Acq On : 14 Nov 2019 14:14 Operator: RLD-DGS
Sample : 166500,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:54 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

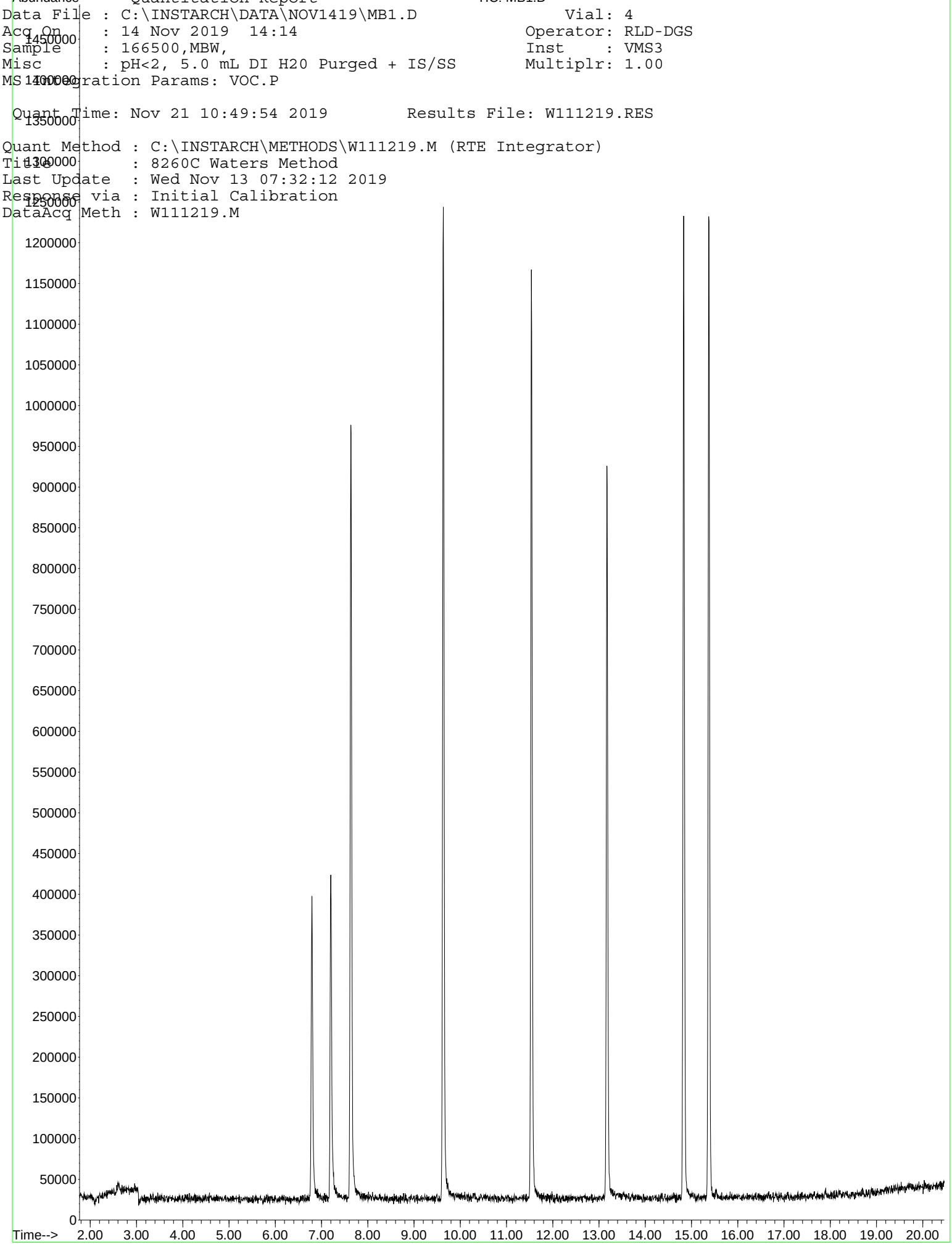
(#) = qualifier out of range (m) = manual integration

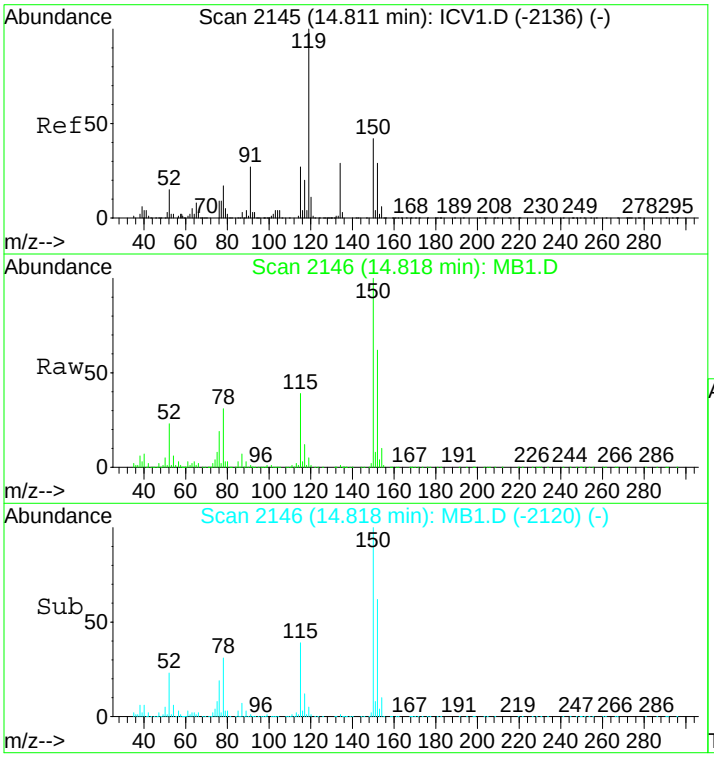
Abundance Quantitation Report TIC: MB1.D

Data File : C:\INSTARCH\DATA\NOV1419\MB1.D Vial: 4
Acq On : 14 Nov 2019 14:14 Operator: RLD-DGS
Sample : 166500,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:54 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

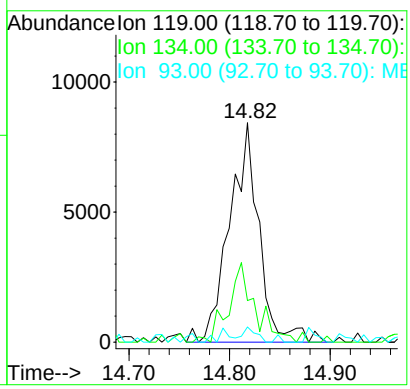




#96
pIsopropylto
Concen: 0.37 ug/L
RT: 14.82 min Scan# 2146
Delta R.T. 0.01 min
Lab File: MB1.D
Acq: 14 Nov 2019 14:14

Tgt Ion:119 Resp: 17315

Ion	Ratio	Lower	Upper
119	100		
134	32.1	6.9	46.9
93	0.0	0.0	22.6



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356207MS.D Vial: 22
Acq On : 14 Nov 2019 23:13 Operator: RLD-DGS
Sample : 166500,MSW356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:23 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1112053	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	850402	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	470251	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	287051	20.156	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 101	%		
45) SURR12DCAd4	7.20	102	84871	21.600	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 108	%		
61) SURRd8Tolule	9.63	98	1075579	19.857	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99	%		
83) SURR4BrFBenz	13.17	95	424347	19.953	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	173793	12.1639	ug/L	98
3) Chloromethan	2.09	50	140789	10.2563	ug/L	98
4) VinylChlorid	2.24	62	206136	11.8286	ug/L	98
5) Bromomethane	2.70	94	105818	10.5926	ug/L	93
6) Chloroethane	2.86	64	147313	10.2178	ug/L	99
7) Dichloroflmethane	3.16	67	271740	10.8294	ug/L	98
8) Trichlorofma	3.23	101	261738	11.6254	ug/L	98
9) Ethylether	3.67	59	98005	9.7347	ug/L	97
10) dichlorotfluoroethan	3.68	67	176226	11.9610	ug/L	98
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.81	56	93141	45.3709	ug/L	99
13) 11dichlorthe	3.95	96	138587	10.7644	ug/L	97
14) Trichlorotfluoroeth	3.98	101	290375	24.4953	ug/L	99
15) Acetone	4.03	43	315453	122.9859	ug/L	99
16) Iodomethane	4.13	142	88261	16.0104	ug/L	95
17) Carbon Dislf	4.21	76	739173	23.1252	ug/L	98
18) allylchloride	4.43	41	386818	21.3212	ug/L	99
19) methylacetate	4.49	74	55354	10.3957	ug/L	98
20) Methylchlorid	4.59	84	154031	9.7819	ug/L	92
21) tbutylalcohol	4.79	59	535147	599.3991	ug/L	98
22) Acrylonitrile	4.90	53	184914	52.9079	ug/L	98
23) t12dichlorte	4.96	96	151894	10.6537	ug/L	95
24) MtBE	4.98	73	401287	10.3936	ug/L	96
25) Hexane	5.34	57	407980	25.9007	ug/L	99
26) 11dichlorota	5.47	63	259226	10.3319	ug/L	99
27) Vinylacetate	5.57	43	1858536	109.3032	ug/L	100
28) chloroprene	5.61	53	428678	23.0484	ug/L	96
29) Diisopether	5.62	45	397758	10.5353	ug/L	98
30) ETBE	6.07	59	385765	10.3699	ug/L	98
31) 22dichloropr	6.21	77	219041	9.8756	ug/L	99
32) c12dichlorte	6.21	96	190753	11.6004	ug/L	95
33) 2Butanone	6.23	72	177191	124.5292	ug/L	97
34) propionitrile	6.28	54	153985	122.1062	ug/L	94
35) Ethylacetate	6.33	88	30617	55.5969	ug/L #	85
36) methacrylonitrile	6.48	67	134326	23.9013	ug/L	97
37) Bromochlorma	6.49	128	73905	9.8798	ug/L	90
38) Tetrahydofur	6.58	42	369112	116.2466	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356207MS.D Vial: 22
Acq On : 14 Nov 2019 23:13 Operator: RLD-DGS
Sample : 166500,MSW356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:23 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	273609	10.1283	ug/L	100
40)	111trichlota	6.84	97	253960	10.7428	ug/L	96
42)	Cyclohexane	6.92	56	247588	12.6863	ug/L	99
43)	Carbtetraclo	7.05	119	208936	11.0707	ug/L	98
44)	11dicloprope	7.04	110	77724	10.8380	ug/L	96
46)	Benzene	7.29	78	622719	10.7385	ug/L	100
47)	12dichlorota	7.30	62	204824	10.0560	ug/L	98
48)	TAME	7.46	73	397340	10.4223	ug/L	97
49)	trichloroete	8.10	95	680965	44.0460	ug/L	98
50)	methylcyclohexane	8.36	83	319518	11.2747	ug/L	99
51)	12dicloropra	8.35	63	156636	10.2782	ug/L	95
52)	23Dicl1propene	8.42	75	228837	10.3976	ug/L	98
53)	Dibromometha	8.50	93	96292	10.3772	ug/L	97
54)	methylmethacrylate	8.53	69	103212	10.8476	ug/L	97
55)	14dioxane	8.55	88	29690	386.9540	ug/L	99
56)	Bromodiclrma	8.70	83	202959	10.1932	ug/L	100
57)	2Nitropropane	8.96	43	407712	114.6769	ug/L	98
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	9.28	75	228140	9.9805	ug/L	98
60)	4Meth2Pentan	9.47	43	1262188	120.3986	ug/L	100
62)	Toluene	9.72	92	454916	11.4957	ug/L	100
63)	t13Dicloprop	9.99	75	198702	9.7106	ug/L	98
64)	ethylmethacrylate	10.13	69	396474	21.8492	ug/L	97
65)	112Triclotha	10.22	83	117259	10.2910	ug/L	96
66)	Tetrachlorte	10.45	166	173672	10.8729	ug/L	97
67)	13Diclorpropa	10.44	76	250326	10.4212	ug/L	98
69)	2Hexanone	10.56	43	954784	126.8198	ug/L	100
70)	Clorodibrmta	10.74	129	136233	9.8593	ug/L	98
71)	12Dibrometha	10.89	107	138768	10.8005	ug/L	97
72)	Chlorobenzen	11.58	112	424818	10.5329	ug/L	100
73)	1Clhexane	11.56	91	228494	11.9931	ug/L	99
74)	1112Tetclota	11.68	131	146941	10.1781	ug/L	95
75)	Ethylbenzene	11.74	91	755738	11.5875	ug/L	100
76)	m p-Xylene	11.90	106	580157	22.8671	ug/L	100
77)	o-Xylene	12.45	106	279260	10.8466	ug/L	99
78)	Styrene	12.46	104	433177	10.7894	ug/L	100
79)	Bromoform	12.69	173	81271	9.7515	ug/L	96
80)	Isopropylben	12.97	105	717327	11.8408	ug/L	98
81)	cyclohexanone	13.07	55	55224	204.1131	ug/L	100
84)	Bromobenzene	13.38	156	182271	10.4815	ug/L	96
85)	1122Tetrclta	13.36	83	195274	10.6628	ug/L	96
86)	123Triclproa	13.41	75	231164	10.2039	ug/L	98
87)	14dichloro2butene	13.45	53	45053	10.2021	ug/L	86
88)	n-Propylbenz	13.55	91	850465	12.1526	ug/L	98
89)	2chlorotolue	13.67	91	494466	10.9896	ug/L	98
90)	4chlorotolue	13.82	91	573426	11.0136	ug/L	100
91)	135Trimebenz	13.81	105	591607	11.5824	ug/L	99
92)	tbutylbenzen	14.28	119	509595	11.7823	ug/L	99
93)	124Trimetben	14.35	105	593871	11.5496	ug/L	99
94)	sbutylbenzen	14.60	105	757339	12.8436	ug/L	100
95)	13Diclorbenz	14.74	146	329096	10.5992	ug/L	99
96)	pIsopropylto	14.81	119	629450	12.0727	ug/L	99
97)	14dichlorobe	14.87	146	332171	10.2169	ug/L	93
98)	12dichlorobe	15.40	146	314833	10.4445	ug/L	98
99)	nButylbenzen	15.41	91	587795	12.3473	ug/L	98
100)	12dibromo3cl	16.50	157	35745	10.8805	ug/L	92
101)	135Trichlorobenzene	16.83	180	223020	11.4385	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356207MS.D Vial: 22
Acq On : 14 Nov 2019 23:13 Operator: RLD-DGS
Sample : 166500,MSW356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:23 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	191685	11.2273	ug/L	95
103) Hexachlorobu	17.90	225	91943	11.0707	ug/L	96
104) Naphthalene	17.95	128	492681	12.1500	ug/L	99
105) 123Trichlben	18.27	180	173826	11.2344	ug/L	98

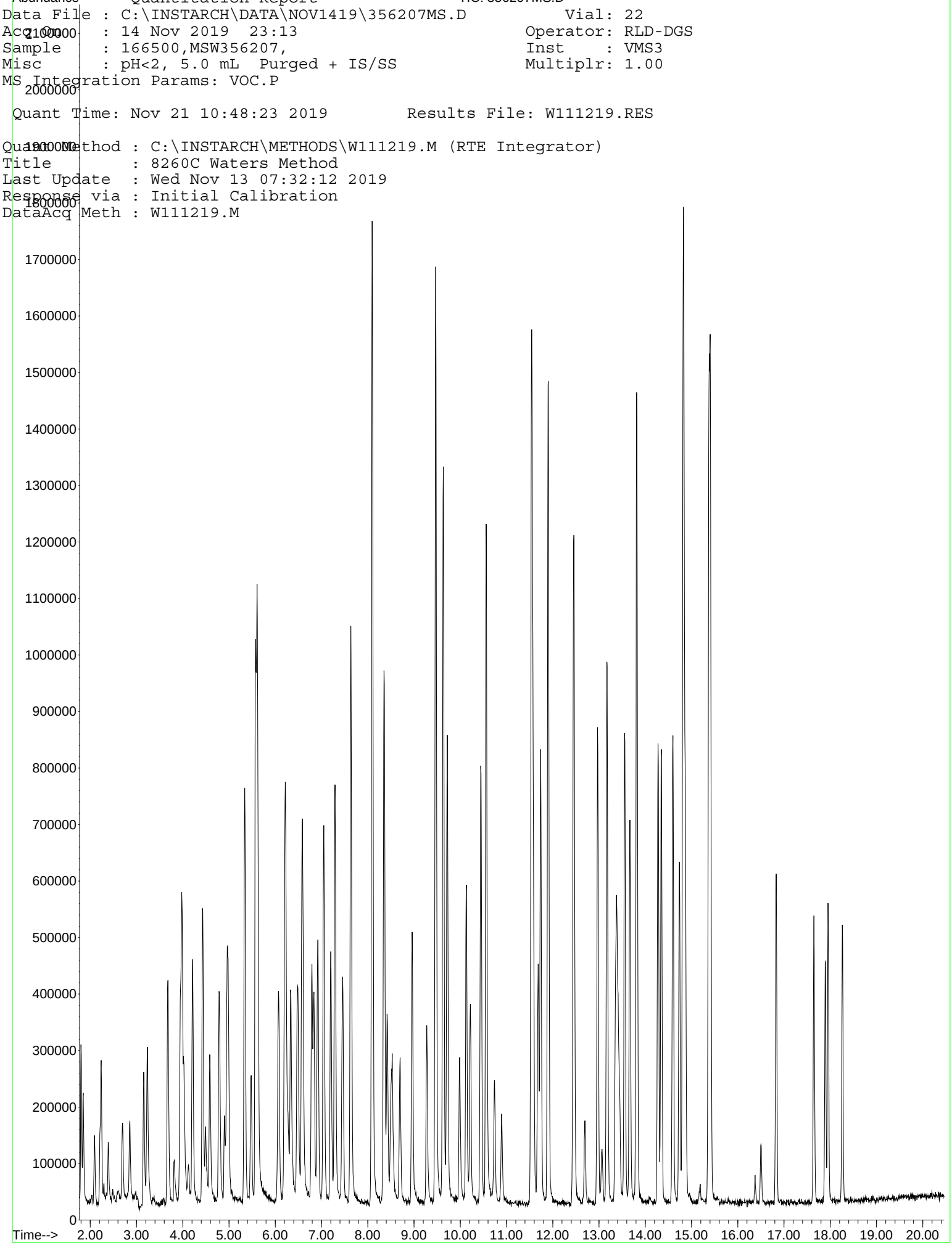
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356207MS.D

Data File : C:\INSTARCH\DATA\NOV1419\356207MS.D Vial: 22
Acq On : 14 Nov 2019 23:13 Operator: RLD-DGS
Sample : 166500,MSW356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:23 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356207SD.D Vial: 23
Acq On : 14 Nov 2019 23:42 Operator: RLD-DGS
Sample : 166500,MSDW356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:26 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1100206	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	849387	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	470307	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	287989	20.440	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 102	%		
45) SURR12DCAd4	7.20	102	80184	20.627	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 103	%		
61) SURRd8Tolule	9.63	98	1076827	20.094	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100	%		
83) SURR4BrFBenz	13.17	95	428684	20.155	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 101	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	182438	12.9065	ug/L	98
3) Chloromethan	2.09	50	149719	11.0243	ug/L	95
4) VinylChlorid	2.24	62	208092	12.0694	ug/L	100
5) Bromomethane	2.70	94	118714	12.0115	ug/L	94
6) Chloroethane	2.85	64	161519	11.3238	ug/L	95
7) Dichloroflmethane	3.16	67	273423	11.0138	ug/L	99
8) Trichlorofma	3.24	101	274961	12.3442	ug/L	100
9) Ethylether	3.68	59	101372	10.1776	ug/L	97
10) dichlorotfluoroethan	3.68	67	181601	12.4585	ug/L	95
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.81	56	101008	49.3914	ug/L	93
13) 11dichlorthe	3.95	96	145148	11.3954	ug/L	98
14) Trichlorotfluoroeth	3.99	101	288979	24.6400	ug/L	96
15) Acetone	4.03	43	327867	129.2022	ug/L	98
16) Iodomethane	4.12	142	135749	21.6588	ug/L	97
17) Carbon Dislf	4.21	76	768769	24.3101	ug/L	100
18) allylchloride	4.43	41	412204	22.9651	ug/L	97
19) methylacetate	4.50	74	59540	11.3022	ug/L	83
20) Methylchlorid	4.59	84	160459	10.2998	ug/L	89
21) tbutylalcohol	4.79	59	549176	621.7360	ug/L	100
22) Acrylonitrile	4.90	53	190608	54.9445	ug/L	98
23) t12dichlorte	4.96	96	150777	10.6892	ug/L	99
24) MtBE	4.98	73	423240	11.0802	ug/L	98
25) Hexane	5.34	57	427039	27.4026	ug/L	99
26) 11dichlorota	5.47	63	261401	10.5308	ug/L	98
27) Vinylacetate	5.57	43	1974730	117.3873	ug/L	98
28) chloroprene	5.61	53	461465	25.0784	ug/L	98
29) Diisopether	5.62	45	404116	10.8189	ug/L	100
30) ETBE	6.07	59	394227	10.7115	ug/L	100
31) 22dichloropr	6.21	77	217840	9.9272	ug/L	99
32) c12dichlorte	6.21	96	189954	11.6762	ug/L	97
33) 2Butanone	6.23	72	175141	124.4139	ug/L	100
34) propionitrile	6.28	54	155827	124.8974	ug/L	98
35) Ethylacetate	6.33	88	27571	50.6048	ug/L	96
36) methacrylonitrile	6.48	67	137969	24.8139	ug/L	96
37) Bromochlorma	6.49	128	74781	10.1046	ug/L	91
38) Tetrahydofur	6.57	42	370008	117.7836	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356207SD.D Vial: 23
Acq On : 14 Nov 2019 23:42 Operator: RLD-DGS
Sample : 166500,MSDW356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:26 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	278852	10.4335	ug/L	98
40)	111trichlota	6.84	97	267382	11.4323	ug/L	96
42)	Cyclohexane	6.92	56	247077	12.7965	ug/L	96
43)	Carbtetraclo	7.05	119	215331	11.5325	ug/L	98
44)	11dicloprope	7.04	110	81590	11.4996	ug/L	97
46)	Benzene	7.29	78	650058	11.3307	ug/L	99
47)	12dichlorota	7.29	62	217644	10.8005	ug/L	97
48)	TAME	7.46	73	417881	11.0792	ug/L	98
49)	trichloroete	8.10	95	536550	35.0787	ug/L	98
50)	methylcyclohexane	8.35	83	320626	11.4310	ug/L	97
51)	12dicloropra	8.35	63	159569	10.5834	ug/L	89
52)	23Dicl1propene	8.42	75	234630	10.7756	ug/L	99
53)	Dibromometha	8.50	93	95246	10.3750	ug/L	99
54)	methylmethacrylate	8.53	69	105401	11.1969	ug/L	93
55)	14dioxane	8.54	88	37144	489.3158	ug/L	93
56)	Bromodiclrma	8.70	83	211556	10.7394	ug/L	100
57)	2Nitropropane	8.96	43	426910	121.3697	ug/L	98
58)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	9.28	75	234028	10.3484	ug/L	99
60)	4Meth2Pentan	9.47	43	1272717	122.7102	ug/L	99
62)	Toluene	9.72	92	463498	11.8387	ug/L	99
63)	t13Dicloprop	9.99	75	205711	10.1614	ug/L	100
64)	ethylmethacrylate	10.13	69	407397	22.6929	ug/L	98
65)	112Triclotha	10.22	83	116769	10.3583	ug/L	96
66)	Tetrachlorte	10.45	166	179562	11.3627	ug/L	97
67)	13Diclorpropa	10.44	76	245319	10.3228	ug/L	98
69)	2Hexanone	10.56	43	959504	127.5991	ug/L	98
70)	Clorodibrmta	10.74	129	141602	10.2601	ug/L	99
71)	12Dibrometha	10.90	107	143156	11.1553	ug/L	97
72)	Chlorobenzen	11.58	112	430286	10.6812	ug/L	99
73)	1Clhexane	11.56	91	231576	12.1694	ug/L	99
74)	1112Tetclota	11.68	131	147789	10.2491	ug/L	98
75)	Ethylbenzene	11.74	91	766568	11.7676	ug/L	100
76)	m p-Xylene	11.90	106	603060	23.7982	ug/L	98
77)	o-Xylene	12.45	106	292029	11.3561	ug/L	97
78)	Styrene	12.46	104	448950	11.1957	ug/L	100
79)	Bromoform	12.69	173	79712	9.5758	ug/L	98
80)	Isopropylben	12.97	105	738355	12.2025	ug/L	97
81)	cyclohexanone	13.06	55	60497	223.8698	ug/L	97
84)	Bromobenzene	13.38	156	187107	10.7583	ug/L	94
85)	1122Tetrclta	13.36	83	200265	10.9341	ug/L	95
86)	123Triclproa	13.41	75	248069	10.9488	ug/L	97
87)	14dichloro2butene	13.44	53	44980	10.1843	ug/L	90
88)	n-Propylbenz	13.56	91	859179	12.2757	ug/L	99
89)	2chlorotolue	13.67	91	510338	11.3410	ug/L	99
90)	4chlorotolue	13.82	91	605624	11.6306	ug/L	99
91)	135Trimebenz	13.81	105	613194	12.0036	ug/L	98
92)	tbutylbenzen	14.28	119	533232	12.3273	ug/L	97
93)	124Trimetben	14.34	105	598245	11.6332	ug/L	99
94)	sbutylbenzen	14.60	105	768985	13.0396	ug/L	100
95)	13Diclorbenz	14.74	146	338515	10.9013	ug/L	100
96)	pIsopropylto	14.81	119	651808	12.5000	ug/L	99
97)	14dichlorobe	14.87	146	352395	10.8377	ug/L	97
98)	12dichlorobe	15.40	146	324896	10.7771	ug/L	99
99)	nButylbenzen	15.41	91	612931	12.8738	ug/L	100
100)	12dibromo3cl	16.50	157	37262	11.3409	ug/L	94
101)	135Trichlorobenzene	16.83	180	229861	11.7879	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356207SD.D Vial: 23
Acq On : 14 Nov 2019 23:42 Operator: RLD-DGS
Sample : 166500,MSDW356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:26 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

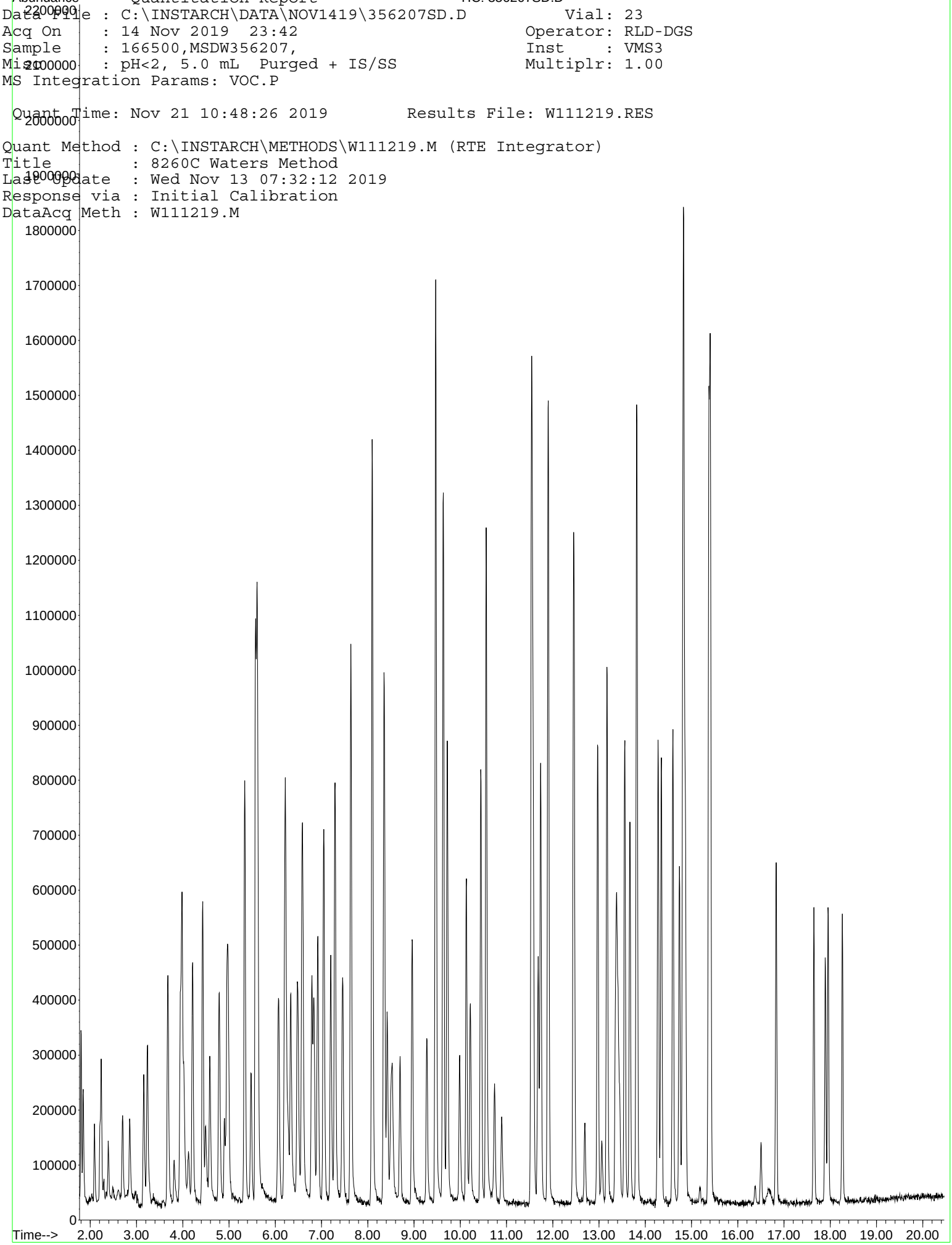
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	198879	11.6472	ug/L	99
103) Hexachlorobu	17.90	225	99688	12.0018	ug/L	96
104) Naphthalene	17.96	128	507460	12.5130	ug/L	99
105) 123Trichlben	18.26	180	175616	11.3487	ug/L	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV1419\356207SD.D Vial: 23
Acq On : 14 Nov 2019 23:42 Operator: RLD-DGS
Sample : 166500,MSDW356207, Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:48:26 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS2.D Vial: 27
Acq On : 15 Nov 2019 9:43 Operator: RLD-DGS
Sample : 166501,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 10:03:52 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1092650	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	839950	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	460413	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	270729	19.348	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 97 %			
45) SURR12DCAd4	7.20	102	78588	20.357	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 102 %			
61) SURRd8Tolule	9.63	98	1046689	19.666	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 98 %			
83) SURR4BrFBenz	13.18	95	416170	19.987	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	155849	11.1017	ug/L	99
3) Chloromethan	2.09	50	139297	10.3278	ug/L	99
4) VinylChlorid	2.24	62	186703	10.9037	ug/L	100
5) Bromomethane	2.70	94	95842	9.7644	ug/L	97
6) Chloroethane	2.85	64	141525	9.9907	ug/L	96
7) Dichloroflmethane	3.16	67	250664	10.1669	ug/L	98
8) Trichlorofma	3.23	101	248995	11.2558	ug/L	97
9) Ethylether	3.68	59	102902	10.4026	ug/L	93
10) dichlorotfluoroethan	3.68	67	157350	10.8694	ug/L	98
11) propyleneoxide	3.73	58	221559	173.8180	ug/L	98
12) Acrolein	3.81	56	94313	46.6489	ug/L	94
13) 11dichlorthe	3.95	96	137856	10.8978	ug/L	98
14) Trichlorotfluoroeth	3.98	101	275676	23.6683	ug/L	98
15) Acetone	4.02	43	249228	98.8921	ug/L	99
16) Iodomethane	4.12	142	141275	22.3770	ug/L	94
17) Carbon Dislf	4.21	76	703485	22.3996	ug/L	99
18) allylchloride	4.43	41	368830	20.6907	ug/L	99
19) methylacetate	4.50	74	46054	8.8027	ug/L	81
20) Methylchlorid	4.58	84	145774	9.4219	ug/L	92
21) tbutylalcohol	4.78	59	344785	393.0391	ug/L	97
22) Acrylonitrile	4.90	53	159297	46.9235	ug/L	98
23) t12dichlorte	4.95	96	143399	10.2364	ug/L	95
24) MtBE	4.98	73	368103	9.7034	ug/L	96
25) Hexane	5.34	57	399814	25.8330	ug/L	99
26) 11dichlorota	5.47	63	247592	10.0434	ug/L	100
27) Vinylacetate	5.57	43	1881439	112.6151	ug/L	98
28) chloroprene	5.61	53	407988	22.3255	ug/L	98
29) Diisopether	5.61	45	380108	10.2466	ug/L	97
30) ETBE	6.06	59	350788	9.5971	ug/L	99
31) 22dichloropr	6.20	77	239392	10.9848	ug/L	98
32) c12dichlorte	6.21	96	163999	10.1505	ug/L	97
33) 2Butanone	6.23	72	141304	101.0714	ug/L	100
34) propionitrile	6.28	54	125589	101.3574	ug/L	94
35) Ethylacetate	6.34	88	24239	44.7968	ug/L	96
36) methacrylonitrile	6.47	67	113431	20.5418	ug/L	97
37) Bromochlorma	6.49	128	65483	8.9094	ug/L	97
38) Tetrahydofur	6.58	42	303687	97.3403	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS2.D Vial: 27
Acq On : 15 Nov 2019 9:43 Operator: RLD-DGS
Sample : 166501,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 10:03:52 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	257413	9.6979	ug/L	98
40)	111trichlota	6.84	97	249075	10.7232	ug/L	98
42)	Cyclohexane	6.92	56	218550	11.3973	ug/L	96
43)	Carbtetraclo	7.05	119	201038	10.8414	ug/L	100
44)	11dicloprope	7.04	110	74567	10.5824	ug/L	96
46)	Benzene	7.29	78	595219	10.4465	ug/L	99
47)	12dichlorota	7.30	62	196961	9.8417	ug/L	99
48)	TAME	7.45	73	364445	9.7292	ug/L	95
49)	trichloroete	8.10	95	150203	9.8879	ug/L	96
50)	methylcyclohexane	8.35	83	301710	10.8487	ug/L	99
51)	12dicloropra	8.35	63	144941	9.6797	ug/L	91
52)	23Dicl1propene	8.42	75	211860	9.7971	ug/L	96
53)	Dibromometha	8.49	93	92885	10.1878	ug/L	98
54)	methylmethacrylate	8.53	69	92172	9.8593	ug/L	99
55)	14dioxane	8.54	88	20209	268.0639	ug/L	89
56)	Bromodiclrma	8.70	83	192671	9.8484	ug/L	98
57)	2Nitropropane	8.96	43	358880	102.7345	ug/L	98
58)	2CLEVE	9.09	63	327606	55.1781	ug/L	98
59)	c13dicloproe	9.28	75	232565	10.3548	ug/L	97
60)	4Meth2Pentan	9.47	43	1030618	100.0552	ug/L	100
62)	Toluene	9.72	92	404557	10.4047	ug/L	99
63)	t13Dicloprop	9.99	75	204105	10.1518	ug/L	96
64)	ethylmethacrylate	10.13	69	366201	20.5392	ug/L	98
65)	112Triclotha	10.22	83	107871	9.6352	ug/L	95
66)	Tetrachlorte	10.45	166	164572	10.4862	ug/L	98
67)	13Diclorpropa	10.44	76	240492	10.1896	ug/L	98
69)	2Hexanone	10.56	43	739470	99.4428	ug/L	99
70)	Clorodibrmta	10.74	129	135602	9.9357	ug/L	99
71)	12Dibrometha	10.89	107	136464	10.7533	ug/L	96
72)	Chlorobenzen	11.58	112	406152	10.1954	ug/L	99
73)	1Clhexane	11.56	91	213735	11.3580	ug/L	98
74)	1112Tetclota	11.68	131	140083	9.8238	ug/L	97
75)	Ethylbenzene	11.74	91	707357	10.9807	ug/L	100
76)	m p-Xylene	11.90	106	548719	21.8971	ug/L	98
77)	o-Xylene	12.45	106	259215	10.1933	ug/L	96
78)	Styrene	12.46	104	427256	10.7744	ug/L	100
79)	Bromoform	12.70	173	79290	9.6322	ug/L	95
80)	Isopropylben	12.97	105	681211	11.3846	ug/L	98
81)	cyclohexanone	13.06	55	32690	122.3288	ug/L	94
84)	Bromobenzene	13.38	156	170153	9.9937	ug/L	99
85)	1122Tetrclta	13.35	83	174967	9.7581	ug/L	97
86)	123Triclproa	13.42	75	213832	9.6406	ug/L	99
87)	14dichloro2butene	13.44	53	39990	9.2491	ug/L	93
88)	n-Propylbenz	13.56	91	806649	11.7728	ug/L	100
89)	2chlorotolue	13.67	91	466101	10.5805	ug/L	99
90)	4chlorotolue	13.82	91	553724	10.8624	ug/L	99
91)	135Trimebenz	13.81	105	567646	11.3508	ug/L	99
92)	tbutylbenzen	14.28	119	477654	11.2798	ug/L	97
93)	124Trimetben	14.35	105	567440	11.2713	ug/L	97
94)	sbutylbenzen	14.60	105	717531	12.4286	ug/L	99
95)	13Diclorbenz	14.74	146	318389	10.4735	ug/L	99
96)	pIsopropylto	14.81	119	611151	11.9722	ug/L	98
97)	14dichlorobe	14.87	146	330138	10.3714	ug/L	96
98)	12dichlorobe	15.41	146	303543	10.2851	ug/L	98
99)	nButylbenzen	15.41	91	566702	12.1586	ug/L	100
100)	12dibromo3cl	16.51	157	29330	9.1186	ug/L	93
101)	135Trichlorobenzene	16.83	180	210686	11.0368	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

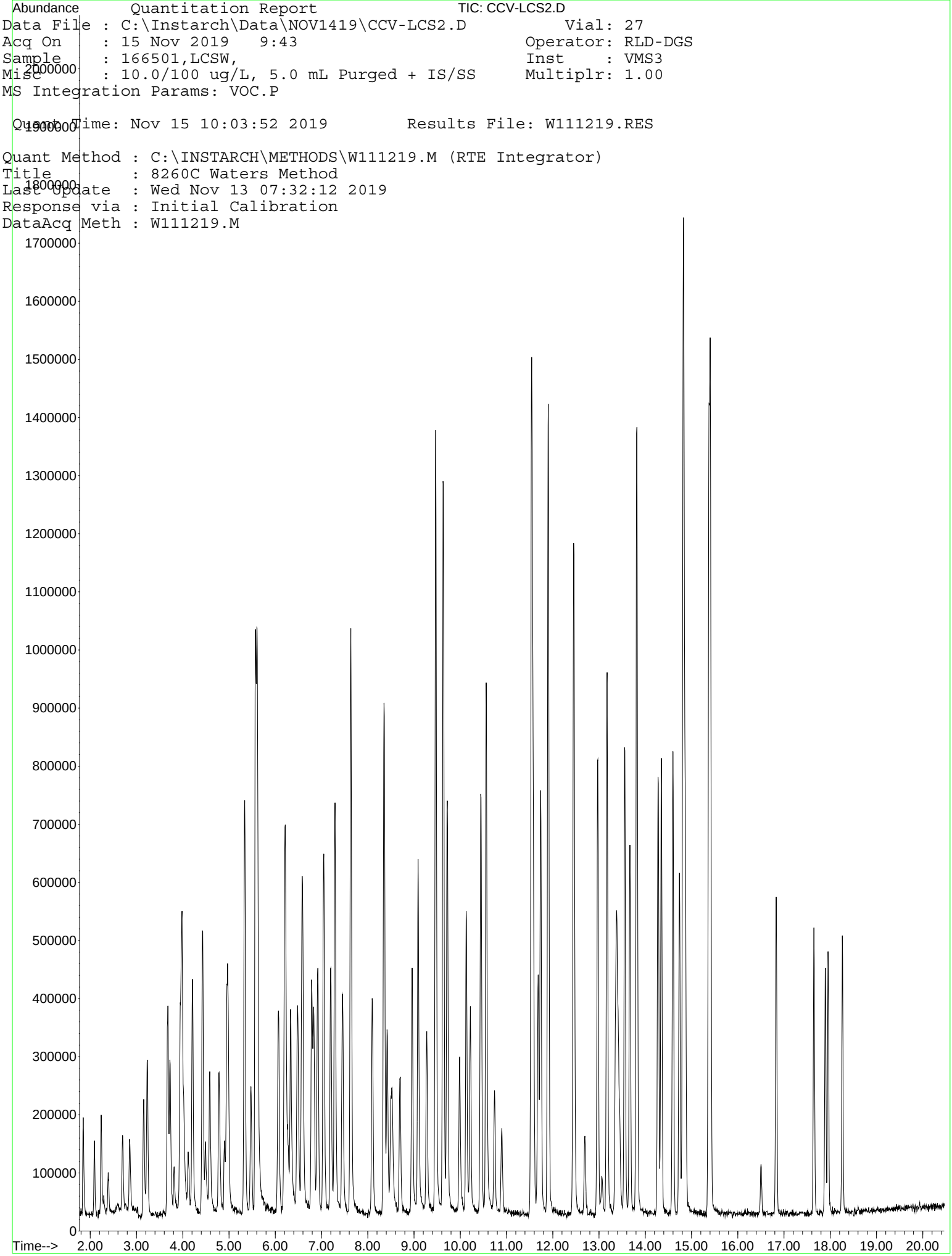
Data File : C:\Instarch\Data\NOV1419\CCV-LCS2.D Vial: 27
Acq On : 15 Nov 2019 9:43 Operator: RLD-DGS
Sample : 166501,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 10:03:52 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	184805	11.0556	ug/L	99
103) Hexachlorobu	17.90	225	92913	11.4266	ug/L	96
104) Naphthalene	17.95	128	415801	10.4732	ug/L	98
105) 123Trichlben	18.26	180	159669	10.5399	ug/L	99

(#) = qualifier out of range (m) = manual integration



Quantitation Report

Data File : C:\Instarch\Data\NOV1419\CCV-LCS2.D Vial: 27
Acq On : 15 Nov 2019 9:43 Operator: RLD-DGS
Sample : 166501,LCSW, Inst : VMS3
Misc : 10.0/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 15 10:03:52 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\MB2-CCB1.D Vial: 29
Acq On : 15 Nov 2019 10:42 Operator: RLD-DGS
Sample : 166501,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:50:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1040496	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	799913	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	420322	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	260450	19.546	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 98 %			
45) SURR12DCAd4	7.20	102	74565	20.283	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 101 %			
61) SURRd8Tolule	9.63	98	1006605	19.861	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 99 %			
83) SURR4BrFBenz	13.17	95	381360	20.062	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100 %			

Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	0.00	50	0	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	2.80	64	3032	N.D.	
7) Dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	0.00	43	0	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.21	76	2892	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	0.00	84	0	N.D.	
21) tbutylalcohol	0.00	59	0	N.D.	
22) Acrylonitrile	0.00	53	0	N.D.	
23) t12dichlorte	0.00	96	0	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\MB2-CCB1.D Vial: 29
Acq On : 15 Nov 2019 10:42 Operator: RLD-DGS
Sample : 166501,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:50:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	0.00	91	0	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\MB2-CCB1.D Vial: 29
Acq On : 15 Nov 2019 10:42 Operator: RLD-DGS
Sample : 166501,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:50:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

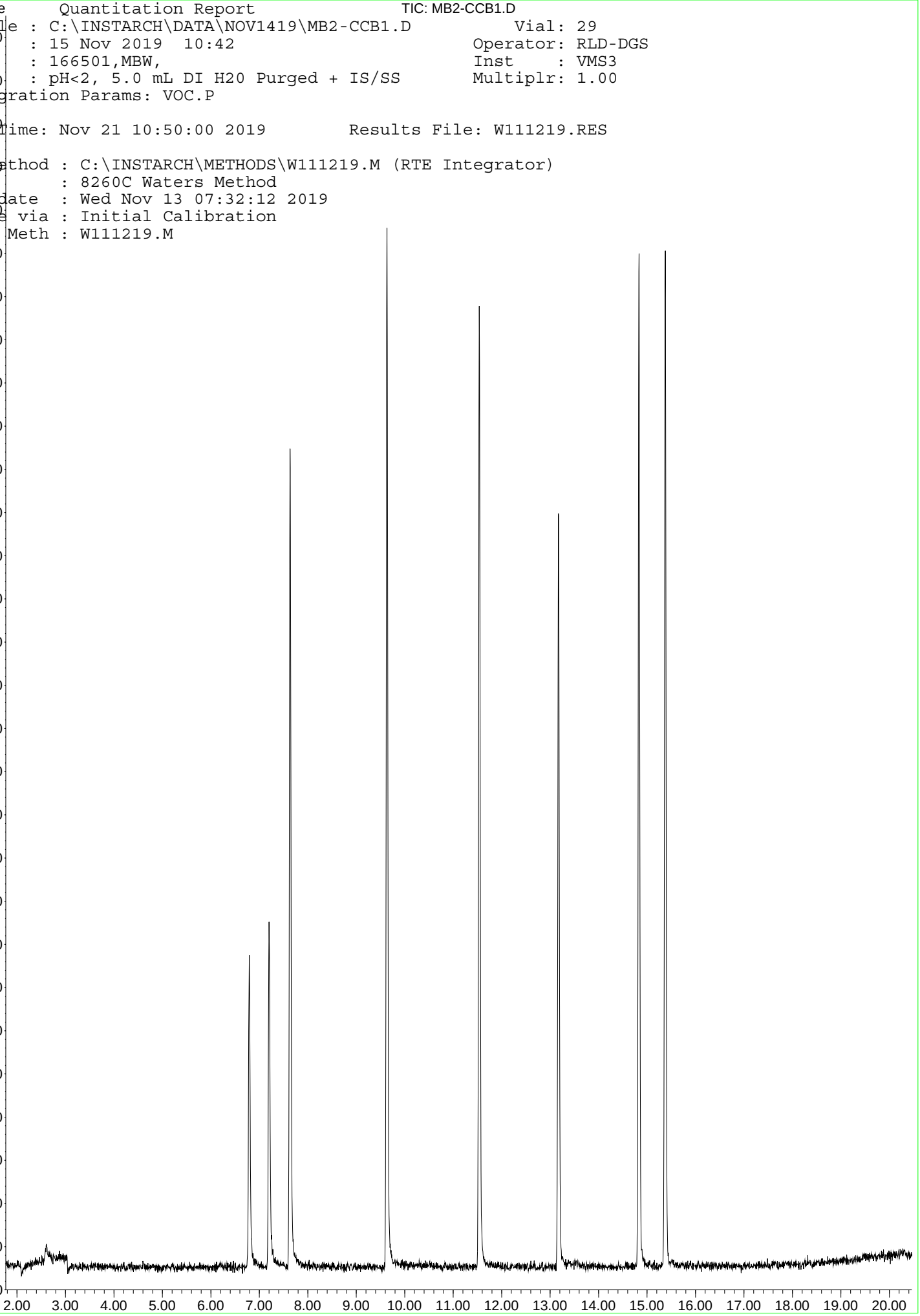
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: MB2-CCB1.D

Data File : C:\INSTARCH\DATA\NOV1419\MB2-CCB1.D Vial: 29
Acq On : 15 Nov 2019 10:42 Operator: RLD-DGS
Sample : 166501,MBW, Inst : VMS3
Misc : pH<2, 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:50:00 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356227MS.D Vial: 33
Acq On : 15 Nov 2019 14:11 Operator: RLD-DGS
Sample : 166501,MSW356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:23 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1067285	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	828204	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	463390	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	277626	20.312	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 102 %			
45) SURR12DCAd4	7.20	102	76791	20.364	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 102 %			
61) SURRd8Tolule	9.63	98	1050454	20.206	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 101 %			
83) SURR4BrFBenz	13.17	95	417378	19.916	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	177768	12.9640	ug/L	99
3) Chloromethan	2.09	50	149019	11.3112	ug/L	99
4) VinylChlorid	2.24	62	207025	12.3779	ug/L	96
5) Bromomethane	2.70	94	116949	12.1979	ug/L	91
6) Chloroethane	2.85	64	158785	11.4755	ug/L	96
7) Dichloroflmethane	3.16	67	291043	12.0852	ug/L	98
8) Trichlorofma	3.23	101	270561	12.5213	ug/L	97
9) Ethylether	3.68	59	124016	12.8351	ug/L	93
10) dichlorotfluoroethan	3.68	67	177590	12.5591	ug/L	98
11) propyleneoxide	3.73	58	255515	205.3827	ug/L	97
12) Acrolein	3.81	56	129249	64.0314	ug/L	89
13) 11dichlorthe	3.95	96	140363	11.3596	ug/L	91
14) Trichlorotfluoroeth	3.98	101	292436	25.7039	ug/L	99
15) Acetone	4.03	43	361757	146.9544	ug/L	98
16) Iodomethane	4.12	142	138540	22.4386	ug/L	95
17) Carbon Dislf	4.21	76	759823	24.7684	ug/L	100
18) allylchloride	4.43	41	424976	24.4070	ug/L	100
19) methylacetate	4.49	74	67242	13.1580	ug/L	84
20) Methylchlorid	4.59	84	165969	10.9821	ug/L	93
21) tbutylalcohol	4.79	59	611412	713.5461	ug/L	99
22) Acrylonitrile	4.90	53	219064	64.3174	ug/L	98
23) t12dichlorte	4.96	96	162080	11.8449	ug/L	98
24) MtBE	4.98	73	462114	12.4711	ug/L	98
25) Hexane	5.34	57	449568	29.7381	ug/L	98
26) 11dichlorota	5.48	63	270703	11.2419	ug/L	98
27) Vinylacetate	5.57	43	2271484	139.1928	ug/L	98
28) chloroprene	5.61	53	464146	26.0021	ug/L	97
29) Diisopether	5.63	45	447313	12.3448	ug/L	98
30) ETBE	6.08	59	420465	11.7768	ug/L	99
31) 22dichloropr	6.21	77	266858	12.5362	ug/L	99
32) c12dichlorte	6.21	96	202785	12.8494	ug/L	99
33) 2Butanone	6.23	72	193602	141.7701	ug/L	98
34) propionitrile	6.28	54	173627	143.4570	ug/L	97
35) Ethylacetate	6.34	88	34509	65.2928	ug/L #	90
36) methacrylonitrile	6.48	67	147764	27.3953	ug/L	91
37) Bromochlorma	6.50	128	75966	10.5813	ug/L	96
38) Tetrahydofur	6.58	42	416717	136.7440	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356227MS.D Vial: 33
Acq On : 15 Nov 2019 14:11 Operator: RLD-DGS
Sample : 166501,MSW356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:23 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	296337	11.4297	ug/L	98
40)	111trichlota	6.84	97	274603	12.1032	ug/L	99
42)	Cyclohexane	6.92	56	247034	13.1889	ug/L	95
43)	Carbtetraclo	7.05	119	222808	12.3010	ug/L	97
44)	11dicloprope	7.05	110	82350	11.9647	ug/L	99
46)	Benzene	7.29	78	664397	11.9378	ug/L	99
47)	12dichlorota	7.30	62	228921	11.7105	ug/L	98
48)	TAME	7.46	73	445603	12.1786	ug/L	98
49)	trichloroete	8.10	95	1109656	74.7851	ug/L	98
50)	methylcyclohexane	8.36	83	329256	12.0831	ug/L	98
51)	12dicloropra	8.36	63	172186	11.7725	ug/L	94
52)	23Dicl1propene	8.42	75	251273	11.8959	ug/L	97
53)	Dibromometha	8.50	93	103536	11.6259	ug/L	95
54)	methylmethacrylate	8.53	69	124978	13.6862	ug/L	99
55)	14dioxane	8.55	88	43254	587.3818	ug/L	90
56)	Bromodiclrma	8.70	83	227922	11.9271	ug/L	97
57)	2Nitropropane	8.96	43	486066	142.4501	ug/L	98
58)	2CLEVE	9.09	63	392812	67.0017	ug/L	99
59)	c13dicloproe	9.28	75	272535	12.4228	ug/L	98
60)	4Meth2Pentan	9.47	43	1394576	138.6068	ug/L	97
62)	Toluene	9.72	92	458984	12.0850	ug/L	99
63)	t13Dicloprop	9.99	75	242572	12.3518	ug/L	98
64)	ethylmethacrylate	10.13	69	460343	26.4330	ug/L	96
65)	112Triclotha	10.21	83	138386	12.6546	ug/L	94
66)	Tetrachlorte	10.45	166	180545	11.7773	ug/L	96
67)	13Diclorpropa	10.44	76	280415	12.1635	ug/L	99
69)	2Hexanone	10.56	43	1054387	143.8033	ug/L	99
70)	Clorodibrmta	10.74	129	153450	11.4029	ug/L	97
71)	12Dibrometha	10.89	107	160671	12.8404	ug/L	94
72)	Chlorobenzen	11.58	112	470299	11.9731	ug/L	99
73)	1Clhexane	11.56	91	241295	13.0044	ug/L	99
74)	1112Tetclota	11.68	131	166898	11.8703	ug/L	95
75)	Ethylbenzene	11.74	91	807581	12.7143	ug/L	99
76)	m p-Xylene	11.90	106	631490	25.5575	ug/L	96
77)	o-Xylene	12.45	106	305563	12.1863	ug/L	97
78)	Styrene	12.46	104	495938	12.6837	ug/L	100
79)	Bromoform	12.69	173	92834	11.4374	ug/L	100
80)	Isopropylben	12.97	105	765775	12.9794	ug/L	99
81)	cyclohexanone	13.06	55	65044	246.8524	ug/L	97
84)	Bromobenzene	13.38	156	199889	11.6648	ug/L	99
85)	1122Tetrclta	13.36	83	225464	12.4936	ug/L	94
86)	123Triclproa	13.42	75	275664	12.3484	ug/L	100
87)	14dichloro2butene	13.44	53	56302	12.9381	ug/L	89
88)	n-Propylbenz	13.55	91	912417	13.2309	ug/L	99
89)	2chlorotolue	13.67	91	536632	12.1033	ug/L	97
90)	4chlorotolue	13.82	91	641764	12.5086	ug/L	99
91)	135Trimebenz	13.81	105	652690	12.9675	ug/L	99
92)	tbutylbenzen	14.28	119	543069	12.7422	ug/L	99
93)	124Trimetben	14.35	105	642700	12.6842	ug/L	98
94)	sbutylbenzen	14.60	105	797842	13.7309	ug/L	99
95)	13Diclorbenz	14.74	146	369754	12.0850	ug/L	100
96)	pIsopropylto	14.81	119	687829	13.3877	ug/L	99
97)	14dichlorobe	14.87	146	383403	11.9673	ug/L	95
98)	12dichlorobe	15.40	146	355674	11.9741	ug/L	100
99)	nButylbenzen	15.41	91	650799	13.8732	ug/L	98
100)	12dibromo3cl	16.50	157	40686	12.5679	ug/L	93
101)	135Trichlorobenzene	16.83	180	247216	12.8672	ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356227MS.D Vial: 33
Acq On : 15 Nov 2019 14:11 Operator: RLD-DGS
Sample : 166501,MSW356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:23 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	214684	12.7605	ug/L	98
103) Hexachlorobu	17.90	225	106033	12.9563	ug/L	97
104) Naphthalene	17.95	128	556331	13.9228	ug/L	99
105) 123Trichlben	18.26	180	198734	13.0344	ug/L	98

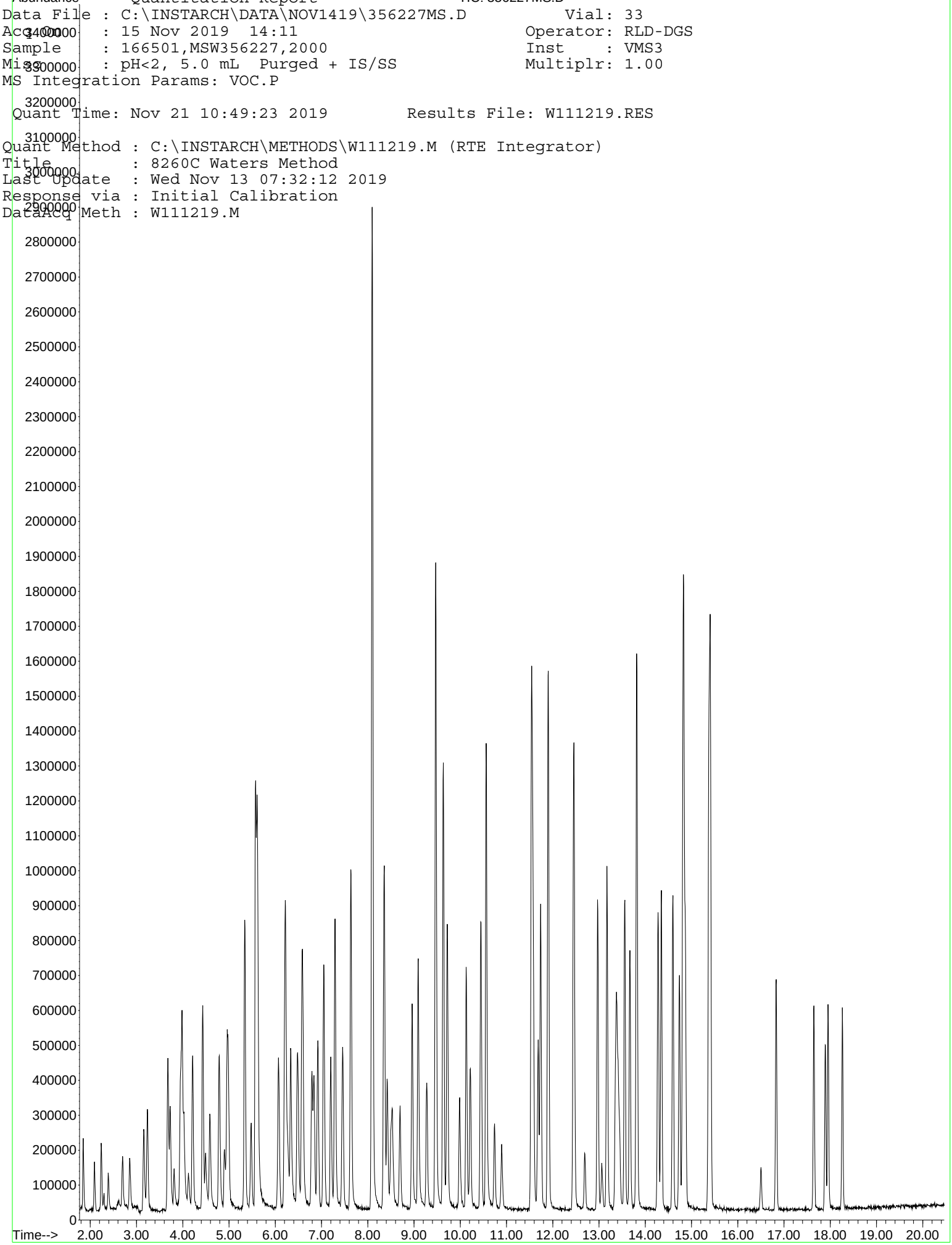
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356227MS.D

Data File : C:\INSTARCH\DATA\NOV1419\356227MS.D Vial: 33
Acq On : 15 Nov 2019 14:11 Operator: RLD-DGS
Sample : 166501,MSW356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:23 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356227SD.D Vial: 33
Acq On : 15 Nov 2019 14:40 Operator: RLD-DGS
Sample : 166501,MSDW356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:26 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1110857	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	849289	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	466707	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	280638	19.727	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %			
45) SURR12DCAd4	7.20	102	76822	19.573	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 98 %			
61) SURRd8Tolule	9.63	98	1084900	20.050	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100 %			
83) SURR4BrFBenz	13.17	95	433389	20.533	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 103 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	182792	12.8075	ug/L	98
3) Chloromethan	2.09	50	159032	11.5978	ug/L	97
4) VinylChlorid	2.24	62	221398	12.7180	ug/L	99
5) Bromomethane	2.70	94	113841	11.4080	ug/L	100
6) Chloroethane	2.86	64	166047	11.5296	ug/L	97
7) Dichloroflmethane	3.16	67	297053	11.8509	ug/L	99
8) Trichlorofma	3.23	101	279843	12.4429	ug/L	97
9) Ethylether	3.67	59	128468	12.7743	ug/L	90
10) dichlorotfluoroethan	3.68	67	188420	12.8024	ug/L	98
11) propyleneoxide	3.73	58	272495	210.5347	ug/L	94
12) Acrolein	3.81	56	138557	65.8468	ug/L	96
13) 11dichlorthe	3.95	96	151773	11.8013	ug/L	96
14) Trichlorotfluoroeth	3.98	101	313611	26.4839	ug/L	97
15) Acetone	4.03	43	377478	147.3260	ug/L	98
16) Iodomethane	4.12	142	181597	26.3728	ug/L	97
17) Carbon Dislf	4.21	76	813458	25.4767	ug/L	99
18) allylchloride	4.43	41	450376	24.8512	ug/L	99
19) methylacetate	4.49	74	73977	13.9081	ug/L	95
20) Methylchlorid	4.59	84	172928	10.9938	ug/L	91
21) tbutylalcohol	4.79	59	651510	730.5188	ug/L	99
22) Acrylonitrile	4.90	53	230060	64.8593	ug/L	98
23) t12dichlorte	4.96	96	169765	11.9199	ug/L	95
24) MtBE	4.98	73	470777	12.2065	ug/L	98
25) Hexane	5.34	57	469428	29.8338	ug/L	99
26) 11dichlorota	5.47	63	287829	11.4843	ug/L	99
27) Vinylacetate	5.57	43	2340794	137.8138	ug/L	98
28) chloroprene	5.61	53	467003	25.1360	ug/L	95
29) Diisopether	5.62	45	460407	12.2078	ug/L	98
30) ETBE	6.07	59	441028	11.8682	ug/L	98
31) 22dichloropr	6.20	77	270283	12.1990	ug/L	99
32) c12dichlorte	6.21	96	214534	13.0606	ug/L	96
33) 2Butanone	6.23	72	209512	147.4028	ug/L	98
34) propionitrile	6.28	54	175912	139.6439	ug/L	92
35) Ethylacetate	6.34	88	39967	72.6535	ug/L #	69
36) methacrylonitrile	6.47	67	155970	27.7824	ug/L	96
37) Bromochlorma	6.50	128	81871	10.9565	ug/L	90
38) Tetrahydofur	6.58	42	442466	139.4984	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356227SD.D Vial: 33
Acq On : 15 Nov 2019 14:40 Operator: RLD-DGS
Sample : 166501,MSDW356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:26 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	305598	11.3246	ug/L	99
40)	111trichlota	6.84	97	280545	11.8801	ug/L	98
42)	Cyclohexane	6.92	56	261481	13.4126	ug/L	97
43)	Carbtetraclo	7.05	119	222074	11.7796	ug/L	97
44)	11dicloprope	7.04	110	87973	12.2803	ug/L	95
46)	Benzene	7.29	78	700466	12.0922	ug/L	99
47)	12dichlorota	7.30	62	240298	11.8103	ug/L	95
48)	TAME	7.46	73	456092	11.9763	ug/L	98
49)	trichloroete	8.10	95	1149578	74.4368	ug/L	98
50)	methylcyclohexane	8.36	83	336848	11.8818	ug/L	95
51)	12dicloropra	8.35	63	182178	11.9671	ug/L	93
52)	23Dicl1propene	8.42	75	261172	11.8795	ug/L	95
53)	Dibromometha	8.50	93	107246	11.5701	ug/L	98
54)	methylmethacrylate	8.53	69	123448	12.9884	ug/L	99
55)	14dioxane	8.55	88	51372	670.2594	ug/L	90
56)	Bromodiclrma	8.70	83	228943	11.5106	ug/L	99
57)	2Nitropropane	8.96	43	518130	145.8910	ug/L	98
58)	2CLEVE	9.09	63	421351	68.9674	ug/L	98
59)	c13dicloproe	9.28	75	278066	12.1778	ug/L	96
60)	4Meth2Pentan	9.47	43	1445403	138.0237	ug/L	97
62)	Toluene	9.72	92	478554	12.1061	ug/L	99
63)	t13Dicloprop	9.99	75	252665	12.3611	ug/L	97
64)	ethylmethacrylate	10.13	69	470090	25.9340	ug/L	97
65)	112Triclotha	10.22	83	140510	12.3448	ug/L	97
66)	Tetrachlorte	10.45	166	187958	11.7800	ug/L	97
67)	13Diclorpropa	10.44	76	285842	11.9126	ug/L	99
69)	2Hexanone	10.56	43	1085307	144.3455	ug/L	97
70)	Clorodibrmta	10.74	129	163220	11.8278	ug/L	99
71)	12Dibrometha	10.90	107	161183	12.5615	ug/L	99
72)	Chlorobenzen	11.58	112	483743	12.0096	ug/L	99
73)	1Clhexane	11.56	91	250869	13.1847	ug/L	98
74)	1112Tetclota	11.68	131	167862	11.6425	ug/L	97
75)	Ethylbenzene	11.74	91	828385	12.7180	ug/L	98
76)	m p-Xylene	11.90	106	645215	25.4647	ug/L	100
77)	o-Xylene	12.45	106	308364	11.9927	ug/L	100
78)	Styrene	12.46	104	509992	12.7194	ug/L	99
79)	Bromoform	12.69	173	94802	11.3899	ug/L	96
80)	Isopropylben	12.97	105	790997	13.0740	ug/L	100
81)	cyclohexanone	13.06	55	77893	288.2772	ug/L	98
84)	Bromobenzene	13.38	156	201866	11.6965	ug/L	99
85)	1122Tetrclta	13.36	83	232139	12.7721	ug/L	95
86)	123Triclproa	13.41	75	282678	12.5726	ug/L	100
87)	14dichloro2butene	13.45	53	57120	13.0328	ug/L	86
88)	n-Propylbenz	13.55	91	930863	13.4025	ug/L	98
89)	2chlorotolue	13.67	91	558944	12.5170	ug/L	99
90)	4chlorotolue	13.82	91	666792	12.9041	ug/L	99
91)	135Trimebenz	13.81	105	671374	13.2439	ug/L	100
92)	tbutylbenzen	14.28	119	567221	13.2143	ug/L	99
93)	124Trimetben	14.35	105	674577	13.2187	ug/L	99
94)	sbutylbenzen	14.60	105	832569	14.2267	ug/L	99
95)	13Diclorbenz	14.74	146	381760	12.3887	ug/L	99
96)	pIsopropylto	14.81	119	709452	13.7104	ug/L	99
97)	14dichlorobe	14.87	146	394566	12.2282	ug/L	96
98)	12dichlorobe	15.40	146	364748	12.1923	ug/L	100
99)	nButylbenzen	15.41	91	660752	13.9852	ug/L	99
100)	12dibromo3cl	16.50	157	41456	12.7147	ug/L	97
101)	135Trichlorobenzene	16.83	180	262622	13.5719	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV1419\356227SD.D Vial: 33
Acq On : 15 Nov 2019 14:40 Operator: RLD-DGS
Sample : 166501,MSDW356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:26 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	226192	13.3490	ug/L	99
103) Hexachlorobu	17.90	225	107902	13.0910	ug/L	92
104) Naphthalene	17.95	128	581479	14.4488	ug/L	100
105) 123Trichlben	18.26	180	207389	13.5053	ug/L	97

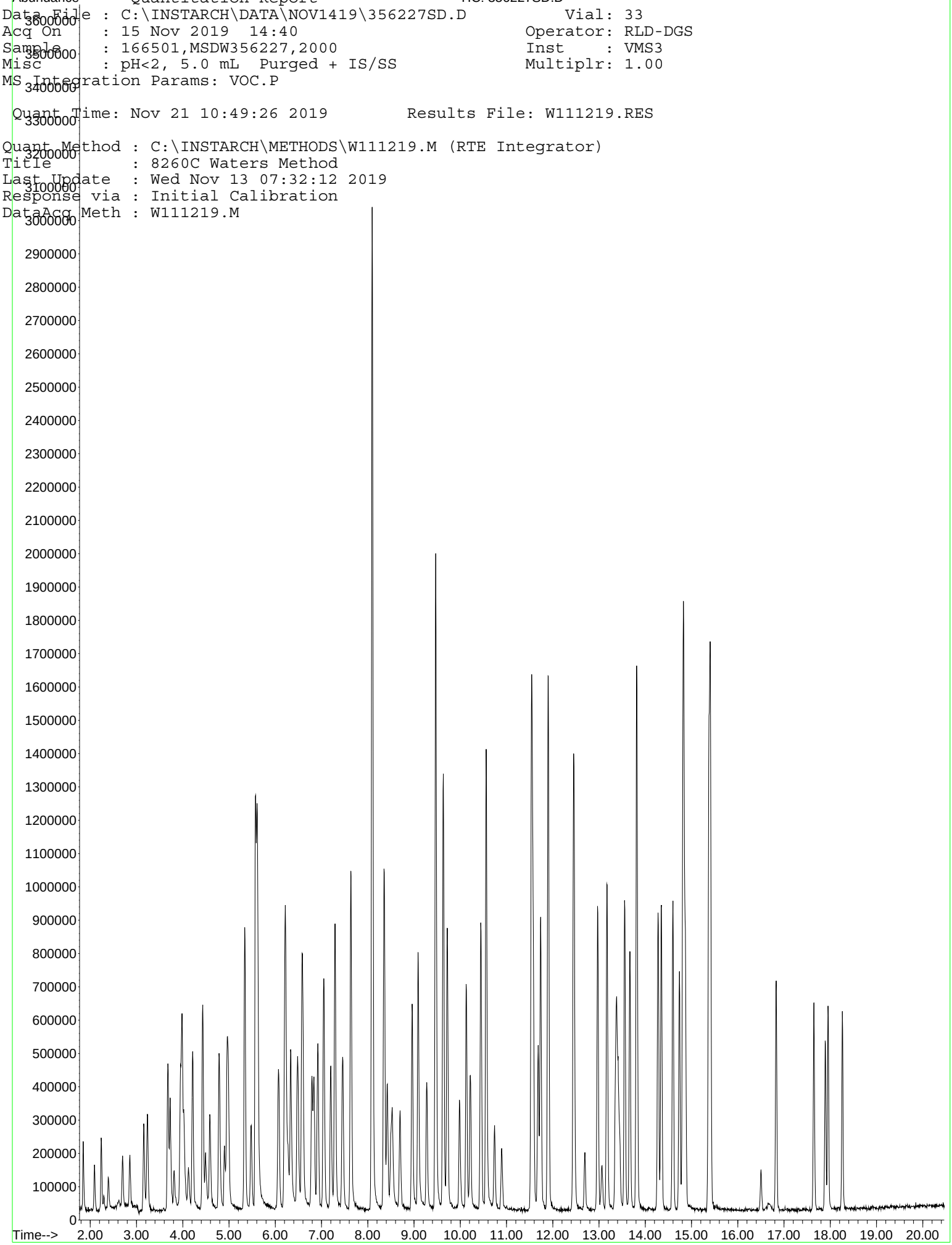
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 356227SD.D

Data File : C:\INSTARCH\DATA\NOV1419\356227SD.D Vial: 33
Acq On : 15 Nov 2019 14:40 Operator: RLD-DGS
Sample : 166501,MSDW356227,2000 Inst : VMS3
Misc : pH<2, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Nov 21 10:49:26 2019 Results File: W111219.RES

Quant Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Wed Nov 13 07:32:12 2019
Response via : Initial Calibration
DataAcq Meth : W111219.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\TLCS1.D Vial: 38
Acq On : 1 Dec 2019 14:04 Operator: RLD-DGS
Sample : 167058,LCSW,100 Inst : VMS3
Misc : pH5, 10.0/100 ug/L, 5.0 mL Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 14:25:29 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1222334	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	1010947	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	597291	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	337953	20.520	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 103 %			
45) SURR12DCAd4	7.20	102	94886	22.190	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 111 %			
61) SURRd8Tolule	9.63	98	1244842	20.163	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 101 %			
83) SURR4BrFBenz	13.17	95	476556	19.540	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 98 %			
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	213000	11.0395	ug/L	100
3) Chloromethan	2.09	50	161438	9.8200	ug/L	98
4) VinylChlorid	2.24	62	226187	10.3124	ug/L	98
5) Bromomethane	2.71	94	138940	9.7599	ug/L	94
6) Chloroethane	2.86	64	157481	9.4503	ug/L	99
7) Dichloroflmethane	3.16	67	278006	9.5286	ug/L	97
8) Trichlorofma	3.24	101	273654	10.1833	ug/L	96
9) Ethylether	3.68	59	106266	8.6384	ug/L	95
10) dichlorotfluoroethan	3.68	67	173431	9.7737	ug/L	97
11) propyleneoxide	3.73	58	252990	86.6867	ug/L	98
12) Acrolein	3.82	56	106683	40.4497	ug/L	97
13) 11dichlorthe	3.95	96	152096	10.0699	ug/L	100
14) Trichlorotfluoroeth	3.98	101	307729	20.5040	ug/L	96
15) Acetone	4.03	43	310725	79.1542	ug/L	97
16) Iodomethane	4.12	142	230995	16.1694	ug/L	99
17) Carbon Dislf	4.21	76	767092	20.1525	ug/L	99
18) allylchloride	4.43	41	392909	19.0218	ug/L	97
19) methylacetate	4.49	74	61571	8.7486	ug/L	92
20) Methylchlorid	4.58	84	159700	8.9113	ug/L	99
21) tbutylalcohol	4.79	59	531567	394.1345	ug/L	98
22) Acrylonitrile	4.91	53	178036	40.5271	ug/L	96
23) t12dichlorte	4.96	96	165553	9.7148	ug/L	98
24) MtBE	4.98	73	419597	9.3827	ug/L	98
25) Hexane	5.35	57	441476	21.6295	ug/L	97
26) 11dichlorota	5.48	63	265496	9.6572	ug/L	97
27) Vinylacetate	5.57	43	1968559	94.7280	ug/L	98
28) chloroprene	5.61	53	444717	20.2079	ug/L	98
29) Diisopether	5.63	45	401963	9.4964	ug/L	96
30) ETBE	6.07	59	383323	9.5899	ug/L	97
31) 22dichloropr	6.21	77	242182	9.6014	ug/L	97
32) c12dichlorte	6.21	96	179470	9.4171	ug/L	95
33) 2Butanone	6.23	72	168500	84.0256	ug/L	97
34) propionitrile	6.29	54	145868	74.7995	ug/L	99
35) Ethylacetate	6.35	88	31268	42.8992	ug/L	97
36) methacrylonitrile	6.48	67	122602	17.3366	ug/L	99
37) Bromochlorma	6.50	128	83584	9.4061	ug/L	99
38) Tetrahydofur	6.57	42	343458	81.1029	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\TLCS1.D Vial: 38
Acq On : 1 Dec 2019 14:04 Operator: RLD-DGS
Sample : 167058,LCSW,100 Inst : VMS3
Misc : pH5, 10.0/100 ug/L, 5.0 mL Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 14:25:29 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.60	83	283948	9.5854	ug/L	99
40)	111trichlota	6.84	97	276349	10.2031	ug/L	98
42)	Cyclohexane	6.92	56	233470	10.2012	ug/L	99
43)	Carbtetraclo	7.05	119	235789	10.3485	ug/L	98
44)	11dicloprope	7.05	110	82698	9.7516	ug/L	99
46)	Benzene	7.29	78	627057	9.7661	ug/L	98
47)	12dichlorota	7.29	62	200289	9.0078	ug/L	97
48)	TAME	7.46	73	405703	9.7773	ug/L	97
49)	trichloroete	8.10	95	162863	9.2458	ug/L	98
50)	methylcyclohexane	8.36	83	331729	10.3558	ug/L	99
51)	12dicloropra	8.36	63	152133	9.2417	ug/L	97
52)	23Dicl1propene	8.42	75	231984	9.6156	ug/L	98
53)	Dibromometha	8.50	93	100449	9.2731	ug/L	99
54)	methylmethacrylate	8.53	69	99692	8.7830	ug/L	98
55)	14dioxane	8.55	88	43204	323.0103	ug/L	91
56)	Bromodiclrma	8.70	83	197821	9.1264	ug/L	98
57)	2Nitropropane	8.97	43	396805	86.1676	ug/L	98
58)	2CLEVE	9.09	63	325481	48.7204	ug/L	99
59)	c13dicloproe	9.28	75	248248	9.8161	ug/L	100
60)	4Meth2Pentan	9.47	43	1120995	86.6679	ug/L	99
62)	Toluene	9.73	92	434625	9.4366	ug/L	99
63)	t13Dicloprop	9.99	75	209647	9.4681	ug/L	97
64)	ethylmethacrylate	10.13	69	385366	18.4339	ug/L	100
65)	112Triclotha	10.21	83	120251	9.6362	ug/L	97
66)	Tetrachlorte	10.45	166	206784	10.0209	ug/L	99
67)	13Diclorpropa	10.44	76	247842	9.2181	ug/L	99
69)	2Hexanone	10.56	43	820878	89.6959	ug/L	99
70)	Clorodibrmta	10.74	129	156578	9.7728	ug/L	98
71)	12Dibrometha	10.90	107	137385	8.9597	ug/L	95
72)	Chlorobenzen	11.58	112	475093	9.9640	ug/L	99
73)	1Clhexane	11.56	91	231798	10.0618	ug/L	100
74)	1112Tetclota	11.69	131	171142	10.0776	ug/L	99
75)	Ethylbenzene	11.74	91	742708	10.1784	ug/L	98
76)	m p-Xylene	11.90	106	591298	20.4584	ug/L	99
77)	o-Xylene	12.45	106	287627	10.1738	ug/L	93
78)	Styrene	12.46	104	455200	10.2668	ug/L	98
79)	Bromoform	12.70	173	91781	8.4549	ug/L	98
80)	Isopropylben	12.97	105	735780	10.8528	ug/L	99
81)	cyclohexanone	13.06	55	63706	154.8951	ug/L	95
84)	Bromobenzene	13.39	156	213055	10.1300	ug/L	93
85)	1122Tetrclta	13.36	83	190190	8.7486	ug/L	96
86)	123Triclproa	13.41	75	231202	9.0089	ug/L	99
87)	14dichloro2butene	13.44	53	39661	7.8431	ug/L	98
88)	n-Propylbenz	13.56	91	851996	10.4986	ug/L	99
89)	2chlorotolue	13.67	91	512326	10.0414	ug/L	98
90)	4chlorotolue	13.82	91	608827	10.3694	ug/L	100
91)	135Trimebenz	13.81	105	598881	10.4296	ug/L	99
92)	tbutylbenzen	14.28	119	543436	10.6121	ug/L	97
93)	124Trimetben	14.35	105	598441	10.4345	ug/L	94
94)	sbutylbenzen	14.60	105	757032	10.7937	ug/L	98
95)	13Diclorbenz	14.74	146	389928	10.1218	ug/L	97
96)	pIsopropylto	14.82	119	675828	11.0169	ug/L	99
97)	14dichlorobe	14.87	146	392667	9.6520	ug/L	99
98)	12dichlorobe	15.40	146	361870	9.6066	ug/L	94
99)	nButylbenzen	15.41	91	611518	10.6255	ug/L	98
100)	12dibromo3cl	16.50	157	41083	8.8591	ug/L	91
101)	135Trichlorobenzene	16.83	180	274663	10.0036	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\TLCS1.D Vial: 38
Acq On : 1 Dec 2019 14:04 Operator: RLD-DGS
Sample : 167058,LCSW,100 Inst : VMS3
Misc : pH5, 10.0/100 ug/L, 5.0 mL Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 14:25:29 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

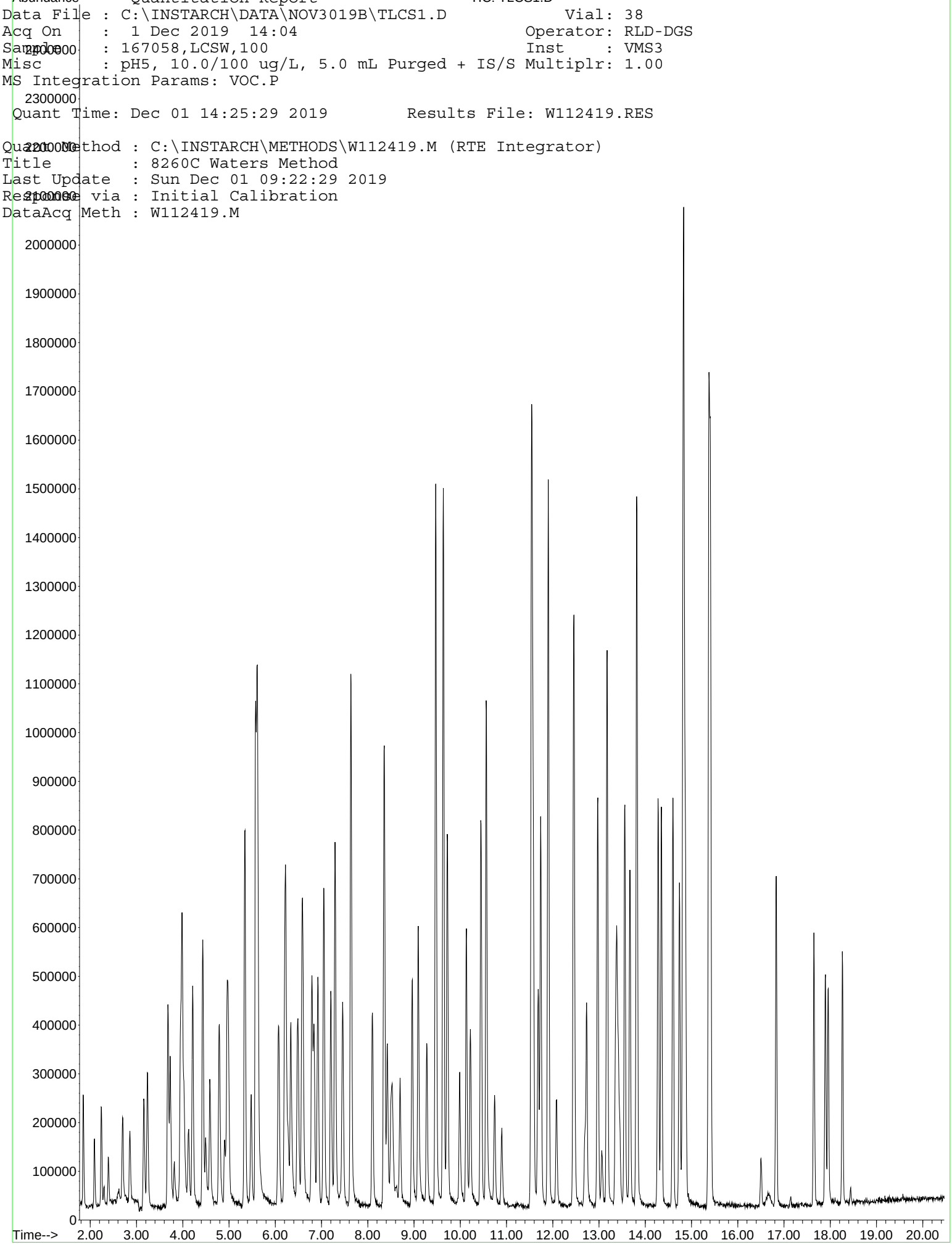
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	124Trichlobe	17.65	180	223215	10.0441	ug/L	97
103)	Hexachlorobu	17.90	225	111336	10.3749	ug/L	99
104)	Naphthalene	17.95	128	450102	9.5710	ug/L	100
105)	123Trichlben	18.26	180	201331	9.8906	ug/L	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV3019B\TLCS1.D Vial: 38
Acq On : 1 Dec 2019 14:04 Operator: RLD-DGS
Sample : 167058,LCSW,100 Inst : VMS3
Misc : pH5, 10.0/100 ug/L, 5.0 mL Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 14:25:29 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\TMB1.D Vial: 39
Acq On : 1 Dec 2019 14:34 Operator: RLD-DGS
Sample : 167058,MBW,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 14:55:13 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.63	96	1139703	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	952047	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.83	152	521548	20.00 ug/L	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.79	113	303779	19.782 ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 99 %		
45) SURR12DCAd4	7.20	102	85249	21.382 ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 107 %		
61) SURRd8Tolule	9.63	98	1130289	19.635 ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 98 %		
83) SURR4BrFBenz	13.17	95	432339	20.302 ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 102 %		

Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	0.00	50	0	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.06	43	2497	N.D.	
16) Iodomethane	0.00	142	0	N.D.	
17) Carbon Dislf	4.22	76	3396	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.59	84	3422	N.D.	
21) tbutylalcohol	4.80	59	8081	N.D.	
22) Acrylonitrile	0.00	53	0	N.D.	
23) t12dichlorte	0.00	96	0	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	0.00	42	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\TMB1.D Vial: 39
Acq On : 1 Dec 2019 14:34 Operator: RLD-DGS
Sample : 167058,MBW,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 14:55:13 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	11.60	112	2369	N.D.	
73)	1Clhexane	11.54	91	3055	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	13.83	91	2798	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	14.36	105	2467	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	14.82	119	2640	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	15.41	146	2255	N.D.	
99)	nButylbenzen	15.43	91	3272	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	16.83	180	2339	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\TMB1.D Vial: 39
Acq On : 1 Dec 2019 14:34 Operator: RLD-DGS
Sample : 167058,MBW,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 14:55:13 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

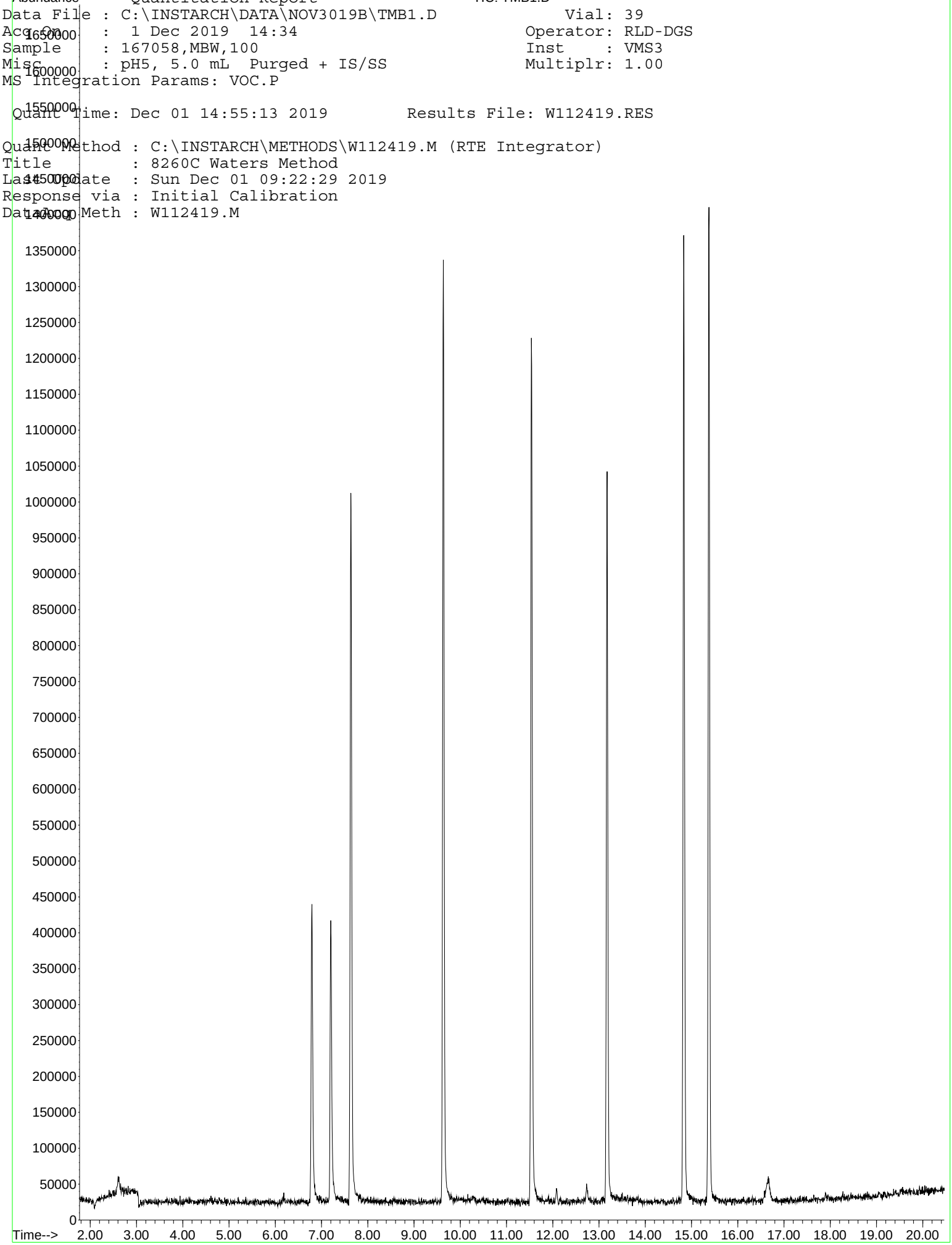
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	2066	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	17.96	128	4358	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV3019B\TMB1.D Vial: 39
Acq On : 1 Dec 2019 14:34 Operator: RLD-DGS
Sample : 167058,MBW,100 Inst : VMS3
Misc : pH5, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 14:55:13 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
Data Acq Meth : W112419.M



Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\TLCSD1.D Vial: 48
Acq On : 1 Dec 2019 19:02 Operator: RLD-DGS
Sample : 167057,LCDSW,100 Inst : VMS3
Misc : pH5, 10.0/100 ug/L, 5.0 mL Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 19:23:12 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.64	96	1172471	20.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.54	117	977484	20.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.84	152	580872	20.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.79	113	315681	19.983	ug/L	0.00
Spiked Amount 20.000	Range 90 - 110		Recovery = 100	%		
45) SURR12DCAd4	7.21	102	84800	20.675	ug/L	0.00
Spiked Amount 20.000	Range 89 - 111		Recovery = 103	%		
61) SURRd8Tolule	9.63	98	1180567	19.935	ug/L	0.00
Spiked Amount 20.000	Range 93 - 107		Recovery = 100	%		
83) SURR4BrFBenz	13.17	95	459812	19.387	ug/L	0.00
Spiked Amount 20.000	Range 83 - 111		Recovery = 97	%		
Target Compounds						Qvalue
2) Dichlorodi	1.85	85	196690	10.6277	ug/L	97
3) Chloromethan	2.09	50	157358	9.9789	ug/L	98
4) VinylChlorid	2.24	62	211732	10.0639	ug/L	91
5) Bromomethane	2.70	94	135293	9.9079	ug/L	99
6) Chloroethane	2.86	64	157270	9.8390	ug/L	97
7) Dichloroflmethane	3.16	67	265648	9.4923	ug/L	99
8) Trichlorofma	3.23	101	267376	10.3729	ug/L	99
9) Ethylether	3.68	59	101423	8.5953	ug/L	91
10) dichlorotfluoroethan	3.68	67	167151	9.8204	ug/L	98
11) propyleneoxide	3.73	58	239051	85.3940	ug/L	97
12) Acrolein	3.82	56	93585	36.9926	ug/L	92
13) 11dichlorthe	3.95	96	146463	10.1094	ug/L	96
14) Trichlorotfluoroeth	3.98	101	305679	21.2336	ug/L	97
15) Acetone	4.03	43	289962	77.0064	ug/L	100
16) Iodomethane	4.12	142	173179	13.3433	ug/L	97
17) Carbon Dislf	4.21	76	744545	20.3920	ug/L	100
18) allylchloride	4.43	41	371449	18.7477	ug/L	99
19) methylacetate	4.49	74	56831	8.4185	ug/L	91
20) Methylchlorid	4.58	84	154338	8.9784	ug/L	97
21) tbutylalcohol	4.79	59	514274	397.5290	ug/L	99
22) Acrylonitrile	4.91	53	170620	40.4907	ug/L	99
23) t12dichlorte	4.96	96	154890	9.4756	ug/L	97
24) MtBE	4.99	73	390131	9.0948	ug/L	99
25) Hexane	5.34	57	394236	20.1365	ug/L	99
26) 11dichlorota	5.47	63	251664	9.5434	ug/L	99
27) Vinylacetate	5.58	43	1855927	93.1062	ug/L	99
28) chloroprene	5.61	53	422606	20.0199	ug/L	99
29) Diisopether	5.62	45	386403	9.5170	ug/L	99
30) ETBE	6.07	59	353908	9.2306	ug/L	98
31) 22dichloropr	6.21	77	209605	8.6632	ug/L	98
32) c12dichlorte	6.21	96	169834	9.2904	ug/L	93
33) 2Butanone	6.23	72	159762	83.0564	ug/L	96
34) propionitrile	6.28	54	143610	76.6232	ug/L	96
35) Ethylacetate	6.34	88	28961	41.4238	ug/L	93
36) methacrylonitrile	6.48	67	122775	18.0994	ug/L	93
37) Bromochlorma	6.50	128	81199	9.5263	ug/L	100
38) Tetrahydofur	6.57	42	320037	78.7863	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\TLCSD1.D Vial: 48
Acq On : 1 Dec 2019 19:02 Operator: RLD-DGS
Sample : 167057,LCDSW,100 Inst : VMS3
Misc : pH5, 10.0/100 ug/L, 5.0 mL Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 19:23:12 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.60	83	263006	9.2561 ug/L	96
40)	111trichlota	6.83	97	256447	9.8710 ug/L	99
42)	Cyclohexane	6.92	56	219571	10.0019 ug/L	96
43)	Carbtetraclo	7.05	119	224272	10.2616 ug/L	98
44)	11dicloprope	7.04	110	75392	9.2682 ug/L	96
46)	Benzene	7.29	78	607272	9.8601 ug/L	98
47)	12dichlorota	7.30	62	197875	9.2777 ug/L	97
48)	TAME	7.46	73	370569	9.3104 ug/L	97
49)	trichloroete	8.10	95	156670	9.2725 ug/L	93
50)	methylcyclohexane	8.36	83	311630	10.1421 ug/L	99
51)	12dicloropra	8.36	63	147315	9.3296 ug/L	93
52)	23Dicl1propene	8.42	75	220068	9.5096 ug/L	98
53)	Dibromometha	8.50	93	96132	9.2520 ug/L	98
54)	methylmethacrylate	8.53	69	92753	8.5192 ug/L	95
55)	14dioxane	8.55	88	48969	375.3830 ug/L	96
56)	Bromodiclrma	8.70	83	193933	9.3275 ug/L	98
57)	2Nitropropane	8.96	43	380111	86.0528 ug/L	99
58)	2CLEVE	9.09	63	305529	47.7495 ug/L	99
59)	c13dicloproe	9.28	75	228922	9.4369 ug/L	99
60)	4Meth2Pentan	9.47	43	1043120	84.0768 ug/L	98
62)	Toluene	9.72	92	420674	9.5221 ug/L	99
63)	t13Dicloprop	9.99	75	190018	8.9466 ug/L	99
64)	ethylmethacrylate	10.13	69	366963	18.3001 ug/L	98
65)	112Triclotha	10.22	83	112396	9.3898 ug/L	95
66)	Tetrachlorte	10.45	166	198184	10.0126 ug/L	99
67)	13Diclorpropa	10.44	76	244407	9.4769 ug/L	98
69)	2Hexanone	10.56	43	770243	87.0443 ug/L	100
70)	Clorodibrmta	10.74	129	151288	9.7659 ug/L	100
71)	12Dibrometha	10.89	107	139020	9.3767 ug/L	98
72)	Chlorobenzen	11.58	112	461376	10.0076 ug/L	99
73)	1Clhexane	11.56	91	217662	9.7717 ug/L	98
74)	1112Tetclota	11.68	131	157440	9.5881 ug/L	99
75)	Ethylbenzene	11.73	91	706764	10.0174 ug/L	96
76)	m p-Xylene	11.90	106	565839	20.2477 ug/L	98
77)	o-Xylene	12.45	106	279190	10.2134 ug/L	91
78)	Styrene	12.46	104	443097	10.3360 ug/L	100
79)	Bromoform	12.69	173	96990	9.2406 ug/L	97
80)	Isopropylben	12.97	105	701564	10.7023 ug/L	98
81)	cyclohexanone	13.06	55	67117	168.7752 ug/L	98
84)	Bromobenzene	13.39	156	192144	9.3940 ug/L	97
85)	1122Tetrclta	13.36	83	185276	8.7635 ug/L	99
86)	123Triclproa	13.41	75	220839	8.8483 ug/L	99
87)	14dichloro2butene	13.44	53	35747	7.2689 ug/L	93
88)	n-Propylbenz	13.56	91	816463	10.3451 ug/L	100
89)	2chlorotolue	13.67	91	485913	9.7929 ug/L	97
90)	4chlorotolue	13.82	91	566246	9.9167 ug/L	99
91)	135Trimebenz	13.81	105	574797	10.2931 ug/L	99
92)	tbutylbenzen	14.28	119	518172	10.4047 ug/L	97
93)	124Trimetben	14.35	105	568739	10.1969 ug/L	94
94)	sbutylbenzen	14.60	105	706391	10.3563 ug/L	99
95)	13Diclorbenz	14.74	146	369587	9.8649 ug/L	98
96)	pIsopropylto	14.81	119	638811	10.7078 ug/L	99
97)	14dichlorobe	14.87	146	379599	9.5945 ug/L	98
98)	12dichlorobe	15.40	146	349067	9.5287 ug/L	97
99)	nButylbenzen	15.41	91	564593	10.0875 ug/L	99
100)	12dibromo3cl	16.50	157	40659	9.0155 ug/L	86
101)	135Trichlorobenzene	16.83	180	258405	9.6775 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\NOV3019B\TLCSD1.D Vial: 48
Acq On : 1 Dec 2019 19:02 Operator: RLD-DGS
Sample : 167057,LCDSW,100 Inst : VMS3
Misc : pH5, 10.0/100 ug/L, 5.0 mL Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 19:23:12 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M

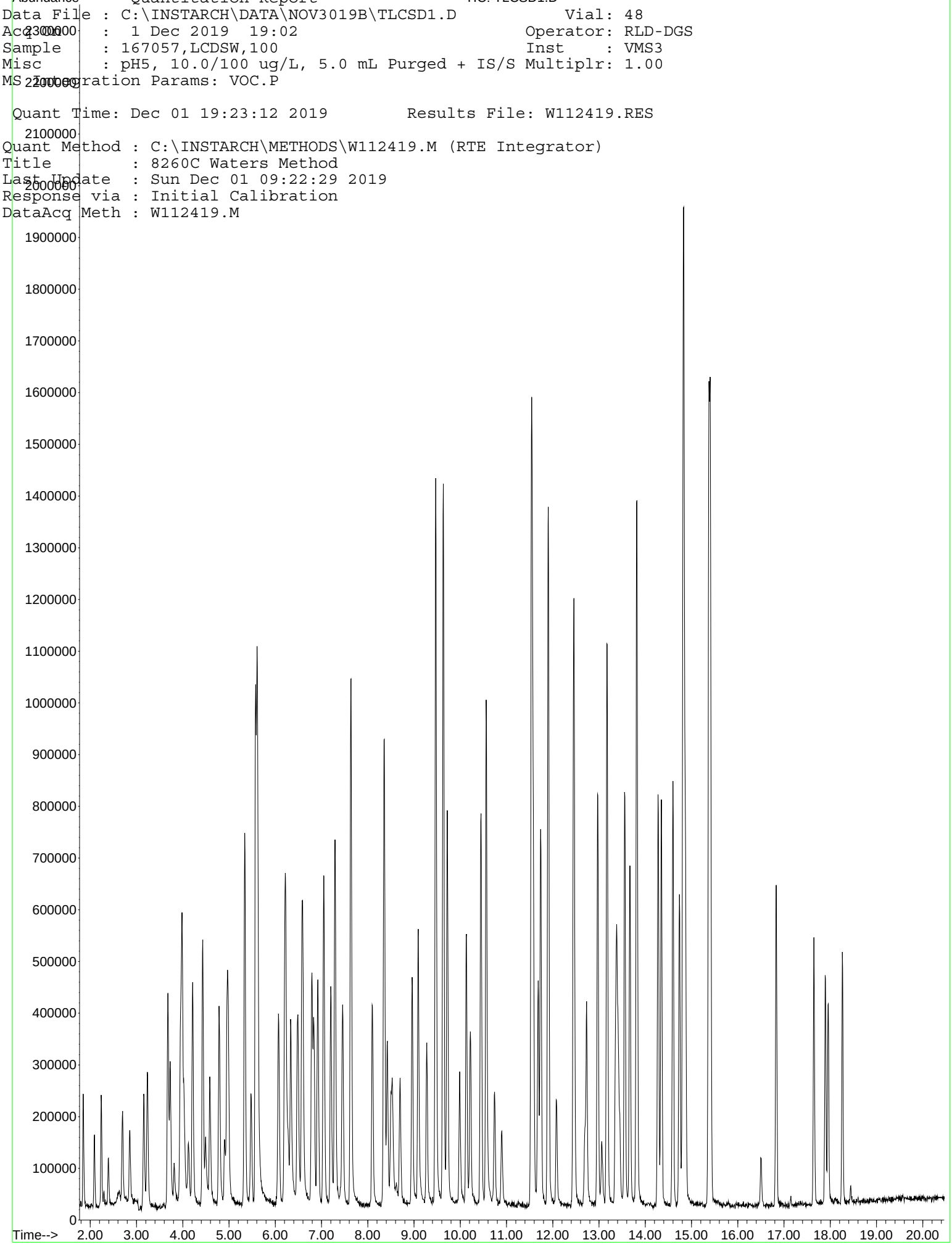
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.65	180	200277	9.2667	ug/L	96
103) Hexachlorobu	17.89	225	99591	9.5427	ug/L	94
104) Naphthalene	17.96	128	408678	8.9358	ug/L	100
105) 123Trichlben	18.26	180	186464	9.4192	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\NOV3019B\TLCSD1.D Vial: 48
Acq On : 1 Dec 2019 19:02 Operator: RLD-DGS
Sample : 167057,LCDSW,100 Inst : VMS3
Misc : pH5, 10.0/100 ug/L, 5.0 mL Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Dec 01 19:23:12 2019 Results File: W112419.RES

Quant Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Sun Dec 01 09:22:29 2019
Response via : Initial Calibration
DataAcq Meth : W112419.M



VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

V 8260 QSM LL SOIL 5.0 Analytical Run
166498 on 12/05/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	365268						V 8260 QSM LL SOIL 5.0				
				BFB				0			
	357260						V 8260 QSM LL SOIL 5.0				
				CCV				0			
	357003						VOC 8260 QSM LL 5.0				
				LCSS				74483			
	357002						VOC 8260 QSM LL 5.0				
				MBS				74483			
149511	356189		11/05/2019 1310		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-005 (31-32)						74483			
149511	356191		11/05/2019 1520		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-007 (27-28)						74483			
149511	356192		11/05/2019 1530		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-007 (29-30)						74483			
149511	356193		11/05/2019 1540		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-007 (31-32)						74483			
149511	356194		11/06/2019 0900		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-004 (28-29)						74483			
149511	356195		11/06/2019 0910		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-004 (30-31)						74483			
149511	356196		11/06/2019 0920		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-004 (32-33)						74483			
149511	356197		11/06/2019 1050		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-008 (26-27)						74483			
149511	356198		11/06/2019 1100		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-008 (27-28)						74483			
		DPT-008 (27-28)						74483			
149511	356199		11/06/2019 1110		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-008 (29-30)						74483			
149511	356200		11/06/2019 1200		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-010 (23-24)						74483			
149511	356201		11/06/2019 1210		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-010 (28-29)						74483			
149511	356202		11/06/2019 1220		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-010 (32-33)						74483			
149511	356203		11/06/2019 0800		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DUP-003						74483			
149511	356204		11/06/2019 1340		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-011 (22-23)						74483			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Distribution: Volatiles C:\LIMSREPS\ANALYTICALRUN.RPT Page 1 of 1

E-1686

V 8260 QSM LL SOIL 5.0 Analytical Run
166498 on 12/05/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356205		11/06/2019 1350		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-011 (27-28)						74483			
149511	356206		11/06/2019 1400		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-011 (31-32)						74483			
	357000		11/05/2019 1140				VOC 8260 QSM LL 5.0				
		DPT-006(30-31)		MSS 356185				74483			
	357001		11/05/2019 1140				VOC 8260 QSM LL 5.0				
		DPT-006(30-31)		MSDS 357000				74483			
	357925						V 8260 QSM LL SOIL 5.0				
				CCVF				0			
	365299						V 8260 QSM LL SOIL 5.0				
				BFB				0			
	357977						V 8260 QSM LL SOIL 5.0				
				CCV				0			
	366535						V 8260 QSM LL SOIL 5.0				
				CCB				0			
149511	356185		11/05/2019 1140		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
		DPT-006(30-31)		Designated MS/MSD				74483			
	358370						V 8260 QSM LL SOIL 5.0				
				CCVF				0			
	366463						V 8260 QSM LL SOIL 5.0				
				BFB				0			
	366465						V 8260 QSM LL SOIL 5.0				
				CCV				0			
	366470						V 8260 QSM LL SOIL 5.0				
				CCB				0			
149511	356189		11/05/2019 1310		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-005 (31-32)						74483			
149511	356191		11/05/2019 1520		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-007 (27-28)						74483			
149511	356192		11/05/2019 1530		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-007 (29-30)						74483			
149511	356194		11/06/2019 0900		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-004 (28-29)						74483			
149511	356197		11/06/2019 1050		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-008 (26-27)						74483			
149511	356199		11/06/2019 1110		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-008 (29-30)						74483			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

V 8260 QSM LL SOIL 5.0 Analytical Run
166498 on 12/05/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356200		11/06/2019 1200		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-010 (23-24)						74483			
149511	356201		11/06/2019 1210		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-010 (28-29)						74483			
149511	356202		11/06/2019 1220		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-010 (32-33)						74483			
149511	356203		11/06/2019 0800		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DUP-003						74483			
	366467						V 8260 QSM LL SOIL 5.0				
				CCVF				0			
	366464						V 8260 QSM LL SOIL 5.0				
				BFB				0			
	366466						V 8260 QSM LL SOIL 5.0				
				CCV				0			
	366471						V 8260 QSM LL SOIL 5.0				
				CCB				0			
149511	356204		11/06/2019 1340		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-011 (22-23)						74483			
149511	356205		11/06/2019 1350		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-011 (27-28)						74483			
149511	356206		11/06/2019 1400		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-011 (31-32)						74483			
149511	356193		11/05/2019 1540		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-007 (31-32)						74483			
149511	356205		11/06/2019 1350		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-011 (27-28)						74483			
149511	356191		11/05/2019 1520		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-007 (27-28)						74483			
	366468						V 8260 QSM LL SOIL 5.0				
				CCVF				0			

54 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/05/2019

Prep Batch **74,483** Date Prepped: 11/12/2019 Prepped By RLD

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	357002	MBS		VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
	357003	LCSS		VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
149511	356185	sample designated for QC		VOC 8260 QSM LL 5.0	SOIL	5.0	3.37		4	
	356189			VOC 8260 QSM LL 5.0	SOIL	5.0	5.86		4	
	356189			VOC 8260 QSM LL 5.0	SOIL	5.0	5.86		4	
	356191			VOC 8260 QSM LL 5.0	SOIL	5.0	5.70		4	
	356191			VOC 8260 QSM LL 5.0	SOIL	5.0	5.70		4	
	356191			VOC 8260 QSM LL 5.0	SOIL	5.0	5.70		4	
	356192			VOC 8260 QSM LL 5.0	SOIL	5.0	5.64		4	
	356192			VOC 8260 QSM LL 5.0	SOIL	5.0	5.64		4	
	356193			VOC 8260 QSM LL 5.0	SOIL	5.0	5.39		4	
	356193			VOC 8260 QSM LL 5.0	SOIL	5.0	5.39		4	
	356194			VOC 8260 QSM LL 5.0	SOIL	5.0	5.64		4	
	356194			VOC 8260 QSM LL 5.0	SOIL	5.0	5.64		4	
	356195			VOC 8260 QSM LL 5.0	SOIL	5.0	4.71		4	
	356196			VOC 8260 QSM LL 5.0	SOIL	5.0	7.34		4	
	356197			VOC 8260 QSM LL 5.0	SOIL	5.0	5.95		4	

PREP WORKSHEET
on 12/05/2019

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
149511	356197			VOC 8260 QSM LL 5.0	SOIL	5.0	5.95		4	
	356198			VOC 8260 QSM LL 5.0	SOIL	5.0	6.84		4	
	356198			VOC 8260 QSM LL 5.0	SOIL	5.0	6.84		4	
	356199			VOC 8260 QSM LL 5.0	SOIL	5.0	5.98		4	
	356199			VOC 8260 QSM LL 5.0	SOIL	5.0	5.98		4	
	356200			VOC 8260 QSM LL 5.0	SOIL	5.0	6.45		4	
	356200			VOC 8260 QSM LL 5.0	SOIL	5.0	6.45		4	
	356201			VOC 8260 QSM LL 5.0	SOIL	5.0	6.11		4	
	356201			VOC 8260 QSM LL 5.0	SOIL	5.0	6.11		4	
	356202			VOC 8260 QSM LL 5.0	SOIL	5.0	6.28		4	
	356202			VOC 8260 QSM LL 5.0	SOIL	5.0	6.28		4	
	356203			VOC 8260 QSM LL 5.0	SOIL	5.0	7.36		4	
	356203			VOC 8260 QSM LL 5.0	SOIL	5.0	7.36		4	
	356204			VOC 8260 QSM LL 5.0	SOIL	5.0	7.60		4	
	356204			VOC 8260 QSM LL 5.0	SOIL	5.0	7.60		4	
	356205			VOC 8260 QSM LL 5.0	SOIL	5.0	6.48		4	
	356205			VOC 8260 QSM LL 5.0	SOIL	5.0	6.48		4	
	356205			VOC 8260 QSM LL 5.0	SOIL	5.0	6.48		4	

PREP WORKSHEET
on 12/05/2019

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
149511	356206			VOC 8260 QSM LL 5.0	SOIL	5.0	7.22		4	
	356206			VOC 8260 QSM LL 5.0	SOIL	5.0	7.22		4	
	357000	MSS	356185	VOC 8260 QSM LL 5.0	SOIL	5.0	5.97			
	357001	MSDS	357000	VOC 8260 QSM LL 5.0	SOIL	5.0	6.00			

Notes:_____

FVO3,4-08

VOC SOILS LOW LEVEL - PREP BENCHSHEET

Prep Batch #:	74483
Method:	8260C
Analyst:	RLD
Date:	11/12/2019
Start Time:	10:40

NON-LUST
Balance# VOB01

	Sample ID	Sample Weight B (g)	Sample Weight C (g)	Sample Weight A (g)		Sodium Bisulfate Solution (mL)
1	356185	6.64		3.37		5.0
2	356189	5.41		5.86		5.0
3	356191	5.18		5.70		5.0
4	356192	6.60		5.64		5.0
5	356193	5.57		5.39		5.0
6	356194	5.17		5.64		5.0
7	356195	6.38		4.71		5.0
8	356196	5.83		7.34		5.0
9	356197	6.85		5.95		5.0
10	356198	6.03		6.84		5.0
11	356199	5.38		5.98		5.0
12	356200	5.47		6.45		5.0
13	356201	5.25		6.11		5.0
14	356202	5.74		6.28		5.0
15	356203	5.18		7.36		5.0
16	356204	6.16		7.60		5.0
17	356205	6.18		6.48		5.0
18	356206	5.96		7.22		5.0
19	MSS356185	5.24		5.97		5.0
20	MSDS356185	NO SAMPLE		6.00		5.0

Stop Time:	10:50

Sodium Bisulfate Solution (0.5g NaHSO4 / 5.0mL of DI H2O):	VOC526/598
Sample Wt = Total Wt - Jar Wt - 0.25 (Label Wt.)	

FVO3,4,5,7-02

VOC SOILS PRESERVED - PREP BENCHSHEET

Prep Batch #:	*74483
Method:	8260C
Analyst:	DGS
Date:	11/18/2019
Start Time:	07:30

NON-LUST

	Sample ID	Vial Weight (g)	Tare Weight (g)	Sample Weight (g)		MeOH Added (mL)
1	356189	35.31	29.48	5.58		5.0
2	356191	35.42	29.38	5.79		5.0
3	356192	35.07	28.87	5.95		5.0
4	356193	33.48	27.54	5.69		5.0
5	356194	33.50	27.92	5.33		5.0
6	356197	35.44	29.27	5.92		5.0
7	356198	Not Used		5.00		5.0
8	356199	36.57	29.23	7.09		5.0
9	356200	34.68	28.65	5.78		5.0
10	356201	35.49	29.11	6.13		5.0
11	356202	35.49	29.50	5.74		5.0
12	356203	35.21	29.22	5.74		5.0
13	356204	35.83	29.31	6.27		5.0
14	356205	35.82	29.50	6.07		5.0
15	356206	35.11	29.02	5.84		5.0
16				-0.25		
17				-0.25		
18				-0.25		
19				-0.25		
20				-0.25		
21				-0.25		

Samples received unpreserved are preserved at a 1:1 ratio, weight to volume with methanol
Balance: Mettler Toledo, VOB01 * MeOH Reanalysis of LL Soils Samples
LCS & MB prepared @ 1:1 ratio MeOH/Silica Sand
MeOH used (Supplier/Lot#): B&J / DU783-US
Sample Weight = Vial Weight - Tare Weight - 0.25g (label weight)

Stop Time:	08:30

V 8260 QSM LL SOIL 5.0 Analytical Run
166497 on 12/05/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	357210							V 8260 QSM LL SOIL 5.0				
				BFB					0			
	357211							V 8260 QSM LL SOIL 5.0				
				CCV					0			
	356998							VOC 8260 QSM LL 5.0				
				LCSS					74482			
	356997							VOC 8260 QSM LL 5.0				
				MBS					74482			
149511	356170	DPT-002 (26-27)	11/04/2019 1400			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356171	DPT-002 (32-33)	11/04/2019 1410			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356172	DPT-002 (40-41)	11/04/2019 1420			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356173	DPT-003 (29-30)	11/04/2019 1540			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356176	DPT-001 (27-28)	11/05/2019 0810			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356179	DPT-009 (24-25)	11/05/2019 0940			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356182	DUP-001	11/05/2019 0800			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356183	DPT-006 (20-21)	11/05/2019 1120			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356184	DPT-006 (27-28)	11/05/2019 1130			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356186	DUP-002	11/05/2019 0830			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356187	DPT-005 (24-25)	11/05/2019 1250			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
149511	356188	DPT-005 (27-28)	11/05/2019 1300			HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0	74482	S	**4**	
	356995	DPT-009 (31-32)	11/05/2019 1000	MSS	356181			VOC 8260 QSM LL 5.0	74482			
	357225							V 8260 QSM LL SOIL 5.0				
				CCVF					0			
	365261							V 8260 QSM LL SOIL 5.0				
				BFB					0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

V 8260 QSM LL SOIL 5.0 Analytical Run
166497 on 12/05/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	357976						V 8260 QSM LL SOIL 5.0				
				CCV				0			
	365259						V 8260 QSM LL SOIL 5.0				
				CCB				0			
149511	356174		11/04/2019 1550		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	4	
		DPT-003 (35-36)						74482			
149511	356175		11/04/2019 1600		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	4	
		DPT-003 (39-40)						74482			
149511	356177		11/05/2019 0820		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	4	
		DPT-001 (31-32)						74482			
149511	356178		11/05/2019 0830		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	4	
		DPT-001 (38-39)						74482			
149511	356180		11/05/2019 0950		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	4	
		DPT-009 (28-29)						74482			
149511	356181		11/05/2019 1000		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	4	
		DPT-009 (31-32)		Designated MS/MSD				74482			
	356996		11/05/2019 1000				VOC 8260 QSM LL 5.0				
		DPT-009 (31-32)		MSDS 356995				74482			
	358371						V 8260 QSM LL SOIL 5.0				
				CCVF				0			
	366358						V 8260 QSM LL SOIL 5.0				
				BFB				0			
	366359						V 8260 QSM LL SOIL 5.0				
				CCV				0			
	366398						V 8260 QSM LL SOIL 5.0				
				CCB				0			
149511	356173		11/04/2019 1540		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	4	
RERUN		DPT-003 (29-30)						74482			
149511	356184		11/05/2019 1130		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	4	
RERUN		DPT-006 (27-28)						74482			
149511	356187		11/05/2019 1250		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	4	
RERUN		DPT-005 (24-25)						74482			
149511	356188		11/05/2019 1300		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	4	
RERUN		DPT-005 (27-28)						74482			
	366360						V 8260 QSM LL SOIL 5.0				
				CCVF				0			
	366407						V 8260 QSM LL SOIL 5.0				
				BFB				0			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

V 8260 QSM LL SOIL 5.0 Analytical Run
166497 on 12/05/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	366408						V 8260 QSM LL SOIL 5.0				
				CCV				0			
	366409						V 8260 QSM LL SOIL 5.0				
				CCB				0			
149511	356176		11/05/2019 0810		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-001 (27-28)						74482			
149511	356179		11/05/2019 0940		HDR, INC	LONGHORN	VOC 8260 QSM LL 5.0		S	**4**	
RERUN		DPT-009 (24-25)						74482			
	366406						V 8260 QSM LL SOIL 5.0				
				CCVF				0			

43 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 12/05/2019

Prep Batch **74,482** Date Prepped: 11/12/2019 Prepped By RLD

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	356997	MBS		VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
	356998	LCSS		VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
149511	356170			VOC 8260 QSM LL 5.0	SOIL	5.0	4.78		4	
	356171			VOC 8260 QSM LL 5.0	SOIL	5.0	5.69		4	
	356172			VOC 8260 QSM LL 5.0	SOIL	5.0	4.86		4	
	356173			VOC 8260 QSM LL 5.0	SOIL	5.0	5.45		4	
	356173			VOC 8260 QSM LL 5.0	SOIL	5.0	5.45		4	
	356174			VOC 8260 QSM LL 5.0	SOIL	5.0	6.30		4	
	356175			VOC 8260 QSM LL 5.0	SOIL	5.0	5.74		4	
	356176			VOC 8260 QSM LL 5.0	SOIL	5.0	5.71		4	
	356176			VOC 8260 QSM LL 5.0	SOIL	5.0	5.71		4	
	356177			VOC 8260 QSM LL 5.0	SOIL	5.0	5.91		4	
	356178			VOC 8260 QSM LL 5.0	SOIL	5.0	5.85		4	
	356179			VOC 8260 QSM LL 5.0	SOIL	5.0	4.94		4	
	356179			VOC 8260 QSM LL 5.0	SOIL	5.0	4.94		4	
	356180			VOC 8260 QSM LL 5.0	SOIL	5.0	5.63		4	
	356181	sample designated for QC		VOC 8260 QSM LL 5.0	SOIL	5.0	7.20		4	

PREP WORKSHEET
on 12/05/2019

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
149511	356182			VOC 8260 QSM LL 5.0	SOIL	5.0	5.95		4	
	356183			VOC 8260 QSM LL 5.0	SOIL	5.0	4.69		4	
	356184			VOC 8260 QSM LL 5.0	SOIL	5.0	5.46		4	
	356184			VOC 8260 QSM LL 5.0	SOIL	5.0	5.46		4	
	356186			VOC 8260 QSM LL 5.0	SOIL	5.0	4.87		4	
	356187			VOC 8260 QSM LL 5.0	SOIL	5.0	6.94		4	
	356187			VOC 8260 QSM LL 5.0	SOIL	5.0	6.94		4	
	356188			VOC 8260 QSM LL 5.0	SOIL	5.0	5.84		4	
	356188			VOC 8260 QSM LL 5.0	SOIL	5.0	5.84		4	
	356995	MSS	356181	VOC 8260 QSM LL 5.0	SOIL	5.0	6.09			
	356996	MSDS	356995	VOC 8260 QSM LL 5.0	SOIL	5.0	4.69			

Notes:_____

FVO3,4-08

VOC SOILS LOW LEVEL - PREP BENCHSHEET

Prep Batch #:	74482
Method:	8260C
Analyst:	RLD
Date:	11/12/2019
Start Time:	10:15

NON-LUST
Balance# VOB01

	Sample ID	Sample Weight B (g)	Sample Weight C (g)	Sample Weight A (g)		Sodium Bisulfate Solution (mL)
1	356170	4.83		4.78		5.0
2	356171	5.46		5.69		5.0
3	356172	5.45		4.86		5.0
4	356173	6.09		5.45		5.0
5	356174	5.79		6.30		5.0
6	356175	6.00		5.74		5.0
7	356176	5.79		5.71		5.0
8	356177	7.10		5.91		5.0
9	356178	5.50		5.85		5.0
10	356179	5.18		5.00		5.0
11	356180	5.30		5.63		5.0
12	356181	5.56		7.20		5.0
13	356182	5.94		5.95		5.0
14	356183	4.00		4.69		5.0
15	356184	7.19		5.46		5.0
16	356186	5.72		4.87		5.0
17	356187	6.21		6.94		5.0
18	356188	4.67		5.84		5.0
19	MSS356181	5.14		6.09		5.0
20	MSDS356181	4.69		6.45		5.0

Stop Time:	10:35

Sodium Bisulfate Solution (0.5g NaHSO4 / 5.0mL of DI H2O):	VOC526/598
Sample Wt = Total Wt - Jar Wt - 0.25 (Label Wt.)	

FVO3,4,5,7-02

VOC SOILS PRESERVED - PREP BENCHSHEET

Prep Batch #:	*74482
Method:	8260C
Analyst:	DGS
Date:	11/18/2019
Start Time:	07:45

NON-LUST

	Sample ID	Vial Weight (g)	Tare Weight (g)	Sample Weight (g)		MeOH Added (mL)
1	356173	35.07	29.54	5.28		5.0
2	356176	36.11	29.56	6.30		5.0
3	356179	34.53	29.34	4.94		5.0
4	356184	35.36	29.37	5.74		5.0
5	356187	35.32	29.45	5.62		5.0
6	356188	35.56	29.51	5.80		5.0
7				-0.25		
8				-0.25		
9				-0.25		
10				-0.25		
11				-0.25		
12				-0.25		
13				-0.25		
14				-0.25		
15				-0.25		
16				-0.25		
17				-0.25		
18				-0.25		
19				-0.25		
20				-0.25		
21				-0.25		

Samples received unpreserved are preserved at a 1:1 ratio, weight to volume with methanol
Balance: Mettler Toledo, VOB01 * MeOH Reanalysis of LL Soils Samples
LCS & MB prepared @ 1:1 ratio MeOH/Silica Sand
MeOH used (Supplier/Lot#): B&J / DU783-US
Sample Weight = Vial Weight - Tare Weight - 0.25g (label weight)

Stop Time:	08:30

Injection Log Summary Report

See seq. date 111819 MeOH reanalyses results.

Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219B\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 16:36 Total files within period : 71
Sample Directory : C:\INSTARCH\DATA\NOV1219B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
CCV1	1.00	1.00	1.00	166497,CCV, 0.010/0.10 mg/kg, 15.0 ml	12 Nov 2019	16:50
LCS1	1.00	1.00	1.00	166497,LCSS, 5.00g, 0.010/0.10 mg/kg,	12 Nov 2019	17:19
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 15.0 ml DI H2O Purged + I	12 Nov 2019	17:48
MB-ICB1	1.00	1.00	1.00	166497,MBS, 5.00g, 15.0 ml Purged + I	12 Nov 2019	18:17
356170	1.00	1.00	1.00	166497,356170, 4.78g, 15.0 ml Purged + I	12 Nov 2019	18:46
356171	1.00	1.00	1.00	166497,356171, 5.69g, 15.0 ml Purged + I	12 Nov 2019	19:15
356172	1.00	1.00	1.00	166497,356172, 4.86g, 15.0 ml Purged + I	12 Nov 2019	19:44
356173	1.00	1.00	1.00	166497,356173, 5.45g, 15.0 ml Purged + I	12 Nov 2019	20:13
356174	1.00	1.00	1.00	166497,356174, 6.30g, 15.0 ml Purged + I	12 Nov 2019	20:42
356175	1.00	1.00	1.00	166497,356175, 5.74g, 15.0 ml Purged + I	12 Nov 2019	21:11
356176	1.00	1.00	1.00	166497,356176, 5.71g, 15.0 ml Purged + I	12 Nov 2019	21:40
356177	1.00	1.00	1.00	166497,356177, 5.91g, 15.0 ml Purged + I	12 Nov 2019	22:09
356178	1.00	1.00	1.00	166497,356178, 5.85g, 15.0 ml Purged + I	12 Nov 2019	22:38
356179	1.00	1.00	1.00	166497,356179, 5.00g, 15.0 ml Purged + I	12 Nov 2019	23:07
356180	1.00	1.00	1.00	166497,356180, 5.63g, 15.0 ml Purged + I	12 Nov 2019	23:36
356181	1.00	1.00	1.00	166497,356181, 7.20g, 15.0 ml Purged + I	13 Nov 2019	00:05
356182	1.00	1.00	1.00	166497,356182, 5.95g, 15.0 ml Purged + I	13 Nov 2019	00:34
356183	1.00	1.00	1.00	166497,356183, 4.69g, 15.0 ml Purged + I	13 Nov 2019	01:03
356184	1.00	1.00	1.00	166497,356184, 5.46g, 15.0 ml Purged + I	13 Nov 2019	01:32
356186	1.00	1.00	1.00	166497,356186, 4.87g, 15.0 ml Purged + I	13 Nov 2019	02:01
356187	1.00	1.00	1.00	166497,356187, 6.94g, 15.0 ml Purged + I	13 Nov 2019	02:30
356188	1.00	1.00	1.00	166497,356188, 5.84g, 15.0 ml Purged + I	13 Nov 2019	02:59

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219B\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 16:36 Total files within period : 71
Sample Directory : C:\INSTARCH\DATA\NOV1219B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
356181MS	1.00	1.00	1.00	166497,MSS356181, 6.09g, 15.0 ml Purged + I	13 Nov 2019	03:28
356181SD	1.00	1.00	1.00	166497,MSS356181, 6.45g, 15.0 ml Purged + I	13 Nov 2019	03:57
CCVF1	1.00	1.00	1.00	166497,CCVF, 0.010/0.10 mg/kg, 15.0 ml	13 Nov 2019	04:26
BFB2	1.00	1.00	1.00	166498,BFB, 50 ng Injection	13 Nov 2019	07:26
CCV2	1.00	1.00	1.00	166498,CCV, 0.010/0.10 mg/kg, 15.0 ml	13 Nov 2019	07:43
LCS2	1.00	1.00	1.00	166498,LCSS, 5.00g, 0.010/0.10 mg/kg,	13 Nov 2019	08:12
IB2	1.00	1.00	1.00	INSTRUMENT BLANK 15.0 ml DI H2O Purged + I	13 Nov 2019	08:40
MB2	1.00	1.00	1.00	166498,MBS, 5.00g, 15.0 ml Purged + I	13 Nov 2019	09:09
356185	1.00	1.00	1.00	166498,356185, 3.37g, 15.0 ml Purged + I	13 Nov 2019	09:38
356189	1.00	1.00	1.00	166498,356189, 5.86g, 15.0 ml Purged + I	13 Nov 2019	10:07
356191	1.00	1.00	1.00	166498,356191, 5.70g, 15.0 ml Purged + I	13 Nov 2019	10:36
356192	1.00	1.00	1.00	166498,356192, 5.64g, 15.0 ml Purged + I	13 Nov 2019	11:05
356193	1.00	1.00	1.00	166498,356193, 5.39g, 15.0 ml Purged + I	13 Nov 2019	11:35
356194	1.00	1.00	1.00	166498,356194, 5.64g, 15.0 ml Purged + I	13 Nov 2019	12:04
356195	1.00	1.00	1.00	166498,356195, 4.71g, 15.0 ml Purged + I	13 Nov 2019	12:33
356196	1.00	1.00	1.00	166498,356196, 7.34g, 15.0 ml Purged + I	13 Nov 2019	13:02
356197	1.00	1.00	1.00	166498,356197, 5.95g, 15.0 ml Purged + I	13 Nov 2019	13:31
356198	1.00	1.00	1.00	166498,356198, 6.84g, 15.0 ml Purged + I	13 Nov 2019	14:00
356199	1.00	1.00	1.00	166498,356199, 5.98g, 15.0 ml Purged + I	13 Nov 2019	14:29
356200	1.00	1.00	1.00	166498,356200, 6.45g, 15.0 ml Purged + I	13 Nov 2019	14:58
356201	1.00	1.00	1.00	166498,356201, 6.11g, 15.0 ml Purged + I	13 Nov 2019	15:27
356202	1.00	1.00	1.00	166498,356202, 6.28g, 15.0 ml Purged + I	13 Nov 2019	15:56

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219B\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 16:36 Total files within period : 71
Sample Directory : C:\INSTARCH\DATA\NOV1219B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
356203	1.00	1.00	1.00	166498,356203, 7.36g, 15.0 ml Purged + I	13 Nov 2019	16:25
356204	1.00	1.00	1.00	166498,356204, 7.60g, 15.0 ml Purged + I	13 Nov 2019	16:54
356205	1.00	1.00	1.00	166498,356205, 6.48g, 15.0 ml Purged + I	13 Nov 2019	17:23
356206	1.00	1.00	1.00	166498,356206, 7.22g, 15.0 ml Purged + I	13 Nov 2019	17:52
356185MS	1.00	1.00	1.00	166498,MSS356185, 5.97g, 15.0 ml Purged + I	13 Nov 2019	18:21
356185SD	1.00	1.00	1.00	166498,MSS356185, 6.00g, 15.0 ml Purged + I	13 Nov 2019	18:50
CCVF2	1.00	1.00	1.00	166498,CCVF, 0.010/0.10 mg/kg, 15.0 ml	13 Nov 2019	19:19
BFB3	1.00	1.00	1.00	166558,BFB, 50 ng Injection	14 Nov 2019	08:06
CCV3	1.00	1.00	1.00	166558,CCV, 0.010/0.10 mg/kg, 15.0 ml	14 Nov 2019	08:19
LCS3	1.00	1.00	1.00	166558,LCSS, 5.00g, 0.010/0.10 mg/kg,	14 Nov 2019	08:48
IB3	1.00	1.00	1.00	INSTRUMENT BLANK 15.0 ml DI H2O Purged + I	14 Nov 2019	09:17
MB3-CCB1	1.00	1.00	1.00	166558,MBS, 5.00g, 15.0 ml Purged + I	14 Nov 2019	09:46
356174R	1.00	1.00	1.00	166497,356174, 5.79g, 15.0 ml Purged + I	14 Nov 2019	11:14
356175R	1.00	1.00	1.00	166497,356175, 6.00g, 15.0 ml Purged + I	14 Nov 2019	11:43
356177R	1.00	1.00	1.00	166497,356177, 7.10g, 15.0 ml Purged + I	14 Nov 2019	12:12
356178R	1.00	1.00	1.00	166497,356178, 5.50g, 15.0 ml Purged + I	14 Nov 2019	12:41
356180R	1.00	1.00	1.00	166497,356180, 5.30g, 15.0 ml Purged + I	14 Nov 2019	13:10
356181R	1.00	1.00	1.00	166497,356181, 5.56g, 15.0 ml Purged + I	14 Nov 2019	13:39
356185R	1.00	1.00	1.00	166498,356185, 6.64g, 15.0 ml Purged + I	14 Nov 2019	14:08
356195R	1.00	1.00	1.00	166498,356195, 6.38g, 15.0 ml Purged + I	14 Nov 2019	14:37

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS111219.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219B\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 16:36 Total files within period : 71
Sample Directory : C:\INSTARCH\DATA\NOV1219B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
356196R	1.00	1.00	1.00	166498,356196, 5.83g, 15.0 ml Purged + I	14 Nov 2019	15:06
356181~1	1.00	1.00	1.00	166497,MSDS356181, 4.69g, 15.0 ml Purged + I	14 Nov 2019	15:35
356181~2	1.00	1.00	1.00	166497,MSS356181, 5.14g, 15.0 ml Purged + I	14 Nov 2019	16:04
LCSD1	1.00	1.00	1.00	166558,LCSDS, 5.00g, 0.010/0.10 mg/kg,	14 Nov 2019	16:33
CCVF3	1.00	1.00	1.00	166558,CCVF, 0.010/0.10 mg/kg, 15.0 ml	14 Nov 2019	17:02

8260 ISTD/SSTD 20ug/ml VOC0645
8260 BFB STD. 50ug/ml VOC0644
8260 ICV STD. 100ug/ml VOC0646
8260 CCV/CALIB. 100ug/ml VOC0647

Over-range
Report

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS111219.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 09:15 Total files within period : 12
Sample Directory : C:\INSTARCH\DATA\NOV1219\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
LLCALS1	1.00	1.00	1.00	CALIB. PT. 1 0.001/0.010 mg/kg, 1	12 Nov 2019	10:11
LLCALS2	1.00	1.00	1.00	CALIB. PT. 2 0.002/0.020 mg/kg, 1	12 Nov 2019	10:40
LLCALS3	1.00	1.00	1.00	CALIB. PT. 3 0.005/0.050 mg/kg, 1	12 Nov 2019	12:11
LLCALS4	1.00	1.00	1.00	CALIB. PT. 4 0.010/0.100 mg/kg, 1	12 Nov 2019	12:40
LLCALS5	1.00	1.00	1.00	CALIB. PT. 5 0.020/0.200 mg/kg, 1	12 Nov 2019	13:09
LLCALS6	1.00	1.00	1.00	CALIB. PT. 6 0.030/0.300 mg/kg, 1	12 Nov 2019	13:38
LLCALS7	1.00	1.00	1.00	CALIB. PT. 7 0.040/0.400 mg/kg, 1	12 Nov 2019	14:07
LLCALS8	1.00	1.00	1.00	CALIB. PT. 8 0.080/0.800 mg/kg, 1	12 Nov 2019	14:36
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.010/0.10 mg/kg, 15	12 Nov 2019	15:34
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.030/0.30 mg/kg, 15	12 Nov 2019	16:03

8260 ISTD/SSTD 20ug/ml VOC0645
8260 BFB STD. 50ug/ml VOC0644
8260 ICV STD. 100ug/ml VOC0646
8260 CCV/CALIB. 100ug/ml VOC0647

Injection Log Summary Report

See Seq. date 111219B for original low level analyses results.

Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1819\BFB1R.D
Injection Date : 18 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 15:38 Total files within period : 45
Sample Directory : C:\INSTARCH\DATA\NOV1819\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 ml DI H2O Purged + IS	18 Nov 2019	15:53
CCV1R	1.00	1.00	1.00	166497,CCV, 0.50/5.00 mg/kg, 5.0 ml P	18 Nov 2019	16:23
LCS1R	1.00	1.00	1.00	166497,LCSS, 1.0ml Ext/50ml, 0.50/5.00	18 Nov 2019	16:52
IB2	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 ml DI H2O Purged + IS	18 Nov 2019	17:21
MB1R	1.00	1.00	1.00	166497,MBS, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	17:49
356173R	1.00	1.00	1.00	166497,356173,5 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	18:18
356176R	1.00	1.00	1.00	166497,356176,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	18:46
356179R	1.00	1.00	1.00	166497,356179,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	19:15
356184R	1.00	1.00	1.00	166497,356184, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	19:43
356187R	1.00	1.00	1.00	166497,356187, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	20:12
356188R	1.00	1.00	1.00	166497,356188, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	20:41
356189R	1.00	1.00	1.00	166498,356189, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	21:10
356191R	1.00	1.00	1.00	166498,356191,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	21:38
356192R	1.00	1.00	1.00	166498,356192, 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	22:07
356193R	1.00	1.00	1.00	166498,356193,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	22:35
356194R	1.00	1.00	1.00	166498,356194,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	23:04
356197R	1.00	1.00	1.00	166498,356197,2 1.0ml Ext/50ml, 5.0 ml Pu	18 Nov 2019	23:33
356198R	1.00	1.00	1.00	166498,356198, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	00:01
356199R	1.00	1.00	1.00	166498,356199, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	00:30
356200R	1.00	1.00	1.00	166498,356200, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	00:59
356201R	1.00	1.00	1.00	166498,356201, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	01:27
356202R	1.00	1.00	1.00	166498,356202,2 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	01:56

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS102519.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1819\BFB1R.D
Injection Date : 18 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 15:38 Total files within period : 45
Sample Directory : C:\INSTARCH\DATA\NOV1819\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
356203R	1.00	1.00	1.00	166498,356203,2 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	02:24
LCSD1R	1.00	1.00	1.00	166497,LCSDS, 1.0ml Ext/50ml, 0.50/5.00	19 Nov 2019	02:53
CCVF1R	1.00	1.00	1.00	166497,CCVF, 0.50/5.00 mg/kg, 5.0 ml P	19 Nov 2019	03:21
BFB2R	1.00	1.00	1.00	165498,BFB, 50 ng Injection	19 Nov 2019	07:01
IB3	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 ml DI H2O Purged + IS	19 Nov 2019	07:16
CCV2R	1.00	1.00	1.00	165498,CCV, 0.50/5.00 mg/kg, 5.0 ml P	19 Nov 2019	08:07
LCS2R	1.00	1.00	1.00	165498,LCSS, 1.0ml Ext/50ml, 0.50/5.00	19 Nov 2019	08:35
IB4	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 ml DI H2O Purged + IS	19 Nov 2019	09:03
MB2-CC~1	1.00	1.00	1.00	165498,MBS, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	09:32
356204R	1.00	1.00	1.00	166498,356204, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	10:00
356205R	1.00	1.00	1.00	166498,356205,2 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	10:29
356206R	1.00	1.00	1.00	166498,356206,2 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	10:57
356176R2	1.00	1.00	1.00	166497,356176,5 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	11:55
356179R2	1.00	1.00	1.00	166497,356179, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	12:23
356193R2	1.00	1.00	1.00	166498,356193,10 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	12:52
356205R2	1.00	1.00	1.00	166498,356205, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	13:21
356191R2	1.00	1.00	1.00	166498,356191, 1.0ml Ext/50ml, 5.0 ml Pu	19 Nov 2019	13:49
LCSD2R	1.00	1.00	1.00	166498,LCSDS, 1.0ml Ext/50ml, 0.50/5.00	19 Nov 2019	15:15
CCVF2R	1.00	1.00	1.00	166498,CCVF, 0.50/5.00 mg/kg, 5.0 ml P	19 Nov 2019	15:43

Over-range

Report

8260 ISTD/SSTD 20ug/ml VOC0645
8260 BFB STD. 50ug/ml VOC0644
8260 ICV STD. 100ug/ml VOC0646
8260 CCV/CALIB. 100ug/ml VOC0647

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS102519.M
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\OCT2519C\BFB1.D
Injection Date : 25 Oct 2019 Log Time Period (hrs) : ALL
Injection Time : 23:34 Total files within period : 17
Sample Directory : C:\INSTARCH\DATA\OCT2519C\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
CALS1	1.00	1.00	1.00	CALIB. PT. 1 0.025/0.25 mg/kg, 5.	26 Oct 2019	01:20
CALS2	1.00	1.00	1.00	CALIB. PT. 2 0.050/0.50 mg/kg, 5.	26 Oct 2019	01:48
CALS3	1.00	1.00	1.00	CALIB. PT. 3 0.10/1.00 mg/kg, 5.0	26 Oct 2019	02:16
CALS4	1.00	1.00	1.00	CALIB. PT. 4 0.25/2.50 mg/kg, 5.0	26 Oct 2019	02:44
CALS5	1.00	1.00	1.00	CALIB. PT. 5 0.50/5.00 mg/kg, 5.0	26 Oct 2019	03:12
CALS6	1.00	1.00	1.00	CALIB. PT. 6 1.00/10.0 mg/kg, 5.0	26 Oct 2019	03:40
CALS7	1.00	1.00	1.00	CALIB. PT. 7 1.50/15.0 mg/kg, 5.0	26 Oct 2019	04:09
CALS8	1.00	1.00	1.00	CALIB. PT. 8 2.00/20.0 mg/kg, 5.0	26 Oct 2019	04:37
CALS9	1.00	1.00	1.00	CALIB. PT.9 4.00/40.0 mg/kg, 5.0	26 Oct 2019	05:05
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.50/5.00 mg/kg, 5.0	26 Oct 2019	06:01
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 1.50/15.00mg/kg, 5.0	26 Oct 2019	06:29
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 1.0ml Ext/50ml, 5.0	26 Oct 2019	07:25

8260 ISTD/SSTD 20ug/ml VOC0632
8260 BFB STD. 50ug/ml VOC0631
8260 ICV STD. 100ug/ml VOC0637
8260 CCV/CALIB. 100ug/ml VOC0638

FVO4-01 Data Review Checklist

INDEPENDENT DATA REVIEW CHECKLIST			Method: GCMS (EPA SW-846 8260C)				
Analysis Date	**LIMS Run #(s):**	**Analyst/Data Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved?**		**Instrument**
					Yes	No	
11/12/19B	166558 166498 166497 166747	DGS/RLD	RLD	12/05/2019	Yes		VMS4

Instructions: Complete one checklist per *analytical sequence* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

Requirement	Acceptance Criteria	Analyst Review		Independent Review		Comments
		Yes	No	Yes	No	
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?	Lowest standard at or below RL?	Yes		Yes		
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF<or= specified limits (<15%D.)see SOP)	Yes		Yes		
Was a second-source ICV(s) analyzed (for Quadratic Curve)?	Required before sample analyses.	Yes		Yes		
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits		No		No	
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		
Was a second CCV (CCV2) for compounds calibrated using quadratic curves analyzed after every 12 hour tune check?	Required before analyses of WI samples (above the inflection point of the curve).					
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific		No		No	
If necessary, were the results for outlying compounds qualified?		Yes		Yes		

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)	Yes		Yes		
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?						
V. Laboratory Control Spike (LCS)						
Was a LCS (and LCSD if needed) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the LCS (LCSD) recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						
Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable?	Default 20%, or see internally generated limits, or client specific limits.	Yes		Yes		
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.		No		No	
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	Default 20%, or see internally generated limits, or client specific limits.		No		No	
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.		No		No	
If possible, were the affected samples reanalyzed?		Yes		Yes		
**Were reported sample results with failing surrogate recoveries qualified?		Yes		Yes		
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.		No		No	Reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		
Were all data, calculations, and values verified in LIMS (including removal of non-detections) upon completion of data capture?		Yes		Yes		
Were manual integrations performed correctly?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms.	Yes		Yes		
Was the rational for the manual integration verified?		Yes		Yes		
Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet?		Yes		Yes		

Non-Applicable Yes/No Cells Are Left Blank

Comments:

VOC 8260 QSM WATER 5.0 Analytical Run
166501 on 11/21/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	360423						VOC 8260 QSM WATER 5.0				
				BFB				0			
	358448						VOC 8260 QSM WATER 5.0				
				LCSW				0			
	358449						VOC 8260 QSM WATER 5.0				
				CCV				0			
	358544						VOC 8260 QSM WATER 5.0				
				MBW				0			
149511	356229	TB-002	11/04/2019 0800		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		M	**4**	
149511	356230	TB-003	11/04/2019 0800		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		M	**4**	
149511	356225	DUP-005	11/08/2019 0800		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
149511	356227	47WW25R-35	11/08/2019 1040	Designated MS/MSD	HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
149511	356228	47WW25R-38	11/08/2019 1130		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
	358637	47WW25R-35	11/08/2019 1040	MSW 356227			VOC 8260 QSM 5.0	0			
	358666	47WW25R-35	11/08/2019 1040	MSDW 358637			VOC 8260 QSM 5.0	0			
	358796						VOC 8260 QSM WATER 5.0				
				CCVF				0			

12 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

VOC 8260 QSM WATER 5.0 Analytical Run
166500 on 11/21/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	358122						VOC 8260 QSM WATER 5.0				
				LCSW				0			
	358123						VOC 8260 QSM WATER 5.0				
				CCV				0			
	360425						VOC 8260 QSM WATER 5.0				
				BFB				0			
	358372						VOC 8260 QSM WATER 5.0				
				LCSW				0			
	358373						VOC 8260 QSM WATER 5.0				
				CCV				0			
	358374						VOC 8260 QSM WATER 5.0				
				MBW				0			
149511	356164		11/04/2019 0800		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		M	**4**	
		TB-001									
149511	356190		11/05/2019 1500		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		EB-001									
149511	356220		11/06/2019 1600		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		EB-002									
149511	356223		11/08/2019 0700		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		EB-003									
149511	356207		11/06/2019 1420		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-002		Designated MS/MSD							
149511	356208		11/06/2019 0830		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DUP-004									
149511	356211		11/06/2019 1525		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-009									
149511	356209		11/06/2019 1500		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-003									
149511	356210		11/06/2019 1515		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-004									
149511	356212		11/06/2019 1540		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-006									
149511	356213		11/06/2019 1550		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-007									
149511	356214		11/07/2019 0720		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-001									
149511	356215		11/07/2019 0800		HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-005									

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

VOC 8260 QSM WATER 5.0 Analytical Run
166500 on 11/21/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME		QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356216		11/07/2019	0830			HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-008											
149511	356217		11/07/2019	0840			HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-010											
149511	356221		11/07/2019	0915			HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		DPT-011											
149511	356224		11/08/2019	0915			HDR, INC	LONGHORN	VOC 8260 QSM 5.0		GW	**4**	
		47WW37											
	358375		11/06/2019	1420					VOC 8260 QSM 5.0				
		DPT-002			MSW	356207				0			
	358376		11/06/2019	1420					VOC 8260 QSM 5.0				
		DPT-002			MSDW	358375				0			
	358377								VOC 8260 QSM WATER 5.0				
					CCVF					0			

26 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1419\BFB1.D
Injection Date : 14 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 13:00 Total files within period : 37
Sample Directory : C:\INSTARCH\DATA\NOV1419\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCV-LCS1	1.00	1.00	1.00	166500,LCSW, 10.0/100 ug/L, 5.0 mL Pur	14 Nov 2019	13:15
IB2	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL DI H20 Purged + IS	14 Nov 2019	13:44
MB1	1.00	1.00	1.00	166500,MBW, pH<2, 5.0 mL DI H20 Purge	14 Nov 2019	14:14
356164	1.00	1.00	1.00	166500,356164, pH<2, 5.0 mL Purged + IS	14 Nov 2019	14:44
356190	1.00	1.00	1.00	166500,356190, pH<2, 5.0 mL Purged + IS	14 Nov 2019	15:14
356220	1.00	1.00	1.00	166500,356220, pH<2, 5.0 mL Purged + IS	14 Nov 2019	15:44
356223	1.00	1.00	1.00	166500,356223, pH<2, 5.0 mL Purged + IS	14 Nov 2019	16:14
356207	1.00	1.00	1.00	166500,356207, pH<2, 5.0 mL Purged + IS	14 Nov 2019	16:44
356208	1.00	1.00	1.00	166500,356208, pH<2, 5.0 mL Purged + IS	14 Nov 2019	17:14
356211	1.00	1.00	1.00	166500,356211, pH<2, 5.0 mL Purged + IS	14 Nov 2019	17:44
356209	1.00	1.00	1.00	166500,356209,50 pH<2, 5.0 mL Purged + IS	14 Nov 2019	18:13
356210	1.00	1.00	1.00	166500,356210,50 pH<2, 5.0 mL Purged + IS	14 Nov 2019	18:43
356212	1.00	1.00	1.00	166500,356212,10 pH<2, 5.0 mL Purged + IS	14 Nov 2019	19:12
356213	1.00	1.00	1.00	166500,356213,2000 pH<2, 5.0 mL Purged + IS	14 Nov 2019	19:42
356214	1.00	1.00	1.00	166500,356214,20 pH<2, 5.0 mL Purged + IS	14 Nov 2019	20:13
356215	1.00	1.00	1.00	166500,356215,200 pH<2, 5.0 mL Purged + IS	14 Nov 2019	20:43
356216	1.00	1.00	1.00	166500,356216,500 pH<2, 5.0 mL Purged + IS	14 Nov 2019	21:12
356217	1.00	1.00	1.00	166500,356217,500 pH<2, 5.0 mL Purged + IS	14 Nov 2019	21:43
356221	1.00	1.00	1.00	166500,356221,500 pH<2, 5.0 mL Purged + IS	14 Nov 2019	22:13
356224	1.00	1.00	1.00	166500,356224,10 pH<2, 5.0 mL Purged + IS	14 Nov 2019	22:43
356207MS	1.00	1.00	1.00	166500,MSW356207, pH<2, 5.0 mL Purged + IS	14 Nov 2019	23:13
356207SD	1.00	1.00	1.00	166500,MSDW356207, pH<2, 5.0 mL Purged + IS	14 Nov 2019	23:42

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W111219.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1419\BFB1.D
Injection Date : 14 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 13:00 Total files within period : 37
Sample Directory : C:\INSTARCH\DATA\NOV1419\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCVF-L~1	1.00	1.00	1.00	166500,LCSDW, 10.0/100 ug/L, 5.0 mL Pur	15 Nov 2019	00:13
BFB2	1.00	1.00	1.00	166501,BFB, 50 ng Inj.	15 Nov 2019	07:52
IB3	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL DI H20 Purged + IS	15 Nov 2019	08:07
CCV-LCS2	1.00	1.00	1.00	166501,LCSW, 10.0/100 ug/L, 5.0 mL Pur	15 Nov 2019	09:43
IB4	1.00	1.00	1.00	INSTRUMENT BLANK 5.0 mL DI H20 Purged + IS	15 Nov 2019	10:13
MB2-CCB1	1.00	1.00	1.00	166501,MBW, pH<2, 5.0 mL DI H20 Purge	15 Nov 2019	10:42
356229	1.00	1.00	1.00	166501,356229, pH<2, 5.0 mL Purged + IS	15 Nov 2019	11:12
356230	1.00	1.00	1.00	166501,356230, pH<2, 5.0 mL Purged + IS	15 Nov 2019	11:42
356225	1.00	1.00	1.00	166501,356225,5000 pH<2, 5.0 mL Purged + IS	15 Nov 2019	12:12
356227	1.00	1.00	1.00	166501,356227,2000 pH<2, 5.0 mL Purged + IS	15 Nov 2019	12:42
356228	1.00	1.00	1.00	166501,356228,2000 pH<2, 5.0 mL Purged + IS	15 Nov 2019	13:11
356211R	1.00	1.00	1.00	166500,356211,5 pH<2, 5.0 mL Purged + IS	15 Nov 2019	13:41
356227MS	1.00	1.00	1.00	166501,MSW356227,2000 pH<2, 5.0 mL Purged + IS	15 Nov 2019	14:11
356227SD	1.00	1.00	1.00	166501,MSDW356227,2000 pH<2, 5.0 mL Purged + IS	15 Nov 2019	14:40
CCVF2	1.00	1.00	1.00	166501,CCVF, 10.0/100 ug/L, 5.0 mL Pur	15 Nov 2019	15:10

Over-range

Report

8260 ISTD/SSTD 20ug/ml VOC0632
8260 BFB STD. 50ug/ml VOC0631
8260 ICV STD. 100ug/ml VOC0642
8260 CCV/CALIB. 100ug/ml VOC0643

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W111219.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV1219\BFB1.D
Injection Date : 12 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 09:18 Total files within period : 32
Sample Directory : C:\INSTARCH\DATA\NOV1219\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
WCAL1	1.00	1.00	1.00	INITIAL CALIB. PT1 0.50/5.00 ug/L, 5.0	12 Nov 2019	10:36
WCAL2	1.00	1.00	1.00	INITIAL CALIB. PT2 1.00/10.00 ug/L, 5.0	12 Nov 2019	11:06
WCAL3	1.00	1.00	1.00	INITIAL CALIB. PT3 2.00/20.0 ug/L, 5.0	12 Nov 2019	11:36
WCAL4	1.00	1.00	1.00	INITIAL CALIB. PT4 5.00/50.0 ug/L, 5.0	12 Nov 2019	12:06
WCAL5	1.00	1.00	1.00	INITIAL CALIB. PT5 10.0/100.0 ug/L, 5.0	12 Nov 2019	12:35
WCAL6	1.00	1.00	1.00	INITIAL CALIB. PT6 20.0/200.0 ug/L, 5.0	12 Nov 2019	13:05
WCAL7	1.00	1.00	1.00	INITIAL CALIB. PT7 30.0/300.0 ug/L, 5.0	12 Nov 2019	13:34
WCAL8	1.00	1.00	1.00	INITIAL CALIB. PT8 40.0/400.0 ug/L, 5.0	12 Nov 2019	14:03
WCAL9	1.00	1.00	1.00	INITIAL CALIB. PT9 80.0/800.0 ug/L, 5.0	12 Nov 2019	14:33
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 10.0/100 ug/L, 5.0 m	12 Nov 2019	15:32
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 30.0/300 ug/L, 5.0 m	12 Nov 2019	16:01
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK pH<2, 5.0 mL DI H20	12 Nov 2019	17:01

8260 ISTD/SSTD 20ug/ml VOC0645
8260 BFB STD. 50ug/ml VOC0644
8260 ICV STD. 100ug/ml VOC0646
8260 CCV/CALIB. 100ug/ml VOC0647

FVO4-01 Data Review Checklist

INDEPENDENT DATA REVIEW CHECKLIST			Method: GCMS (EPA SW-846 8260C)				
Analysis Date	**LIMS Run #(s):**	**Analyst/Data Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved?**		**Instrument**
					Yes	No	
11/14/2019	166501 166500	DGS/RLD	RLD	11/22/2019	Yes		VMS3

Instructions: Complete one checklist per *analytical sequence* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

Requirement	Acceptance Criteria	Analyst Review		Independent Review		Comments
		Yes	No	Yes	No	
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?	Lowest standard at or below RL?	Yes		Yes		
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF<or= specified limits (<15%D.)see SOP)	Yes		Yes		
Was a second-source ICV(s) analyzed (for Quadratic Curve)?	Required before sample analyses.	Yes		Yes		
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits	Yes		Yes		
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		
Was a second CCV (CCV2) for compounds calibrated using quadratic curves analyzed after every 12 hour tune check?	Required before analyses of WI samples (above the inflection point of the curve).					
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific		No		No	
If necessary, were the results for outlying compounds qualified?		Yes		Yes		

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)	Yes		Yes		
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?						
V. Laboratory Control Spike (LCS)						
Was a LCS (and LCSD if needed) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the LCS (LCSD) recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						
Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable?	Default 20%, or see internally generated limits, or client specific limits.					
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.		No		No	
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	Default 20%, or see internally generated limits, or client specific limits.		No		No	
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		
If possible, were the affected samples reanalyzed?						
**Were reported sample results with failing surrogate recoveries qualified?						
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		
Were all data, calculations, and values verified in LIMS (including removal of non-detections) upon completion of data capture?		Yes		Yes		
Were manual integrations performed correctly?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms.	Yes		Yes		
Was the rational for the manual integration verified?		Yes		Yes		
Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet?		Yes		Yes		

Non-Applicable Yes/No Cells Are Left Blank

Comments:

VOC 8260 QSM TCLP 5.0 Analytical Run
167058 on 12/06/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	364666						VOC 8260 QSM TCLP 5.0				
				BFB				0			
	364663						VOC 8260 QSM TCLP 5.0				
				CCV				0			
	364668						VOC 8260 QSM TCLP 5.0				
				LCSW				0			
	364671						VOC 8260 QSM TCLP 5.0				
				MBW				0			
149511	356218	46ADPT-TCLP	11/07/2019 1030		HDR, INC	LONGHORN	VOC 8260 QSM TCLP 5.0		M	**4**	
	356626	ACADM-WS-001	11/07/2019 1700				VOC 8260 QSM TCLP 5.0		M	**4**	
	357208	IDW-S06-SRI4	11/09/2019 1200				VOC 8260 QSM TCLP 5.0		M	**4**	
	366957						VOC 8260 QSM TCLP 5.0				
				CCVF				0			
	367011						VOC 8260 QSM TCLP 5.0				
				LCSDW 364668				0			

9 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

TCLP/SPLP/ASTM Extraction Summary

Batch: 3024 Date: 11-21-19 Analyst (set up): Bmm Analyst (take down): Bmm

Sample #	Parameter	Test			Vessel / ZHE	Buffer Determination			Sample wt.	***Free Liquids Present (Y/N)	Vol. Ext. Fluid	Initial pH	ZHE Initial Press	Time In	Date / Time Out	Ext. Time	End pH	ZHE End Press	Date / Time Filtered	Volume Filtered
	(M / SV / V / WC)	TCLP	SPLP	ASTM	#	Initial pH	* End pH	**Ext. Fluid	(g)		(mL)		(psi)			(hrs)		(psi)		(mL)
Blank	V	X			7	–	–	1	–	N	500	5	10	1540	11-22-19/0940	18	5	10	11-22-19/1255	–
356218	V	X			3	–	–	1	25	N	500	5	10	1540	11-22-19/0940	18	5	10	11-22-19/1257	–
356226	V	X			2	–	–	1	25	N	500	5	10	1540	11-22-19/0940	18	5	10	11-22-19/1300	–
357208	V	X			6	–	–	1	25	N	500	5	10	1540	11-22-19/0940	18	5	10	11-22-19/1303	–
															/				/	
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										11-21-19	Bmm				/				/	
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															/				/	

**Extraction Fluid Used: TCLP #1 Ext. Fluid ID #: M139960 Ext. Fluid pH(+/-0.05(°C): 4.93 Date measured: Bmm 11-21-19 Ext. Start Temp (°C): 20.6

Ext. End Temp(°C): 20.5 (min: 20.4 / max: 20.8) (Acceptable Range 21-25°C) Filter Manufacturer: Env. Express Filter Lot #: 400161-9141-D

Balance: V0801 pH Meter: pH Strips 1N HCL: N/A Tumbler Unit #(s): 2

Acceptable rotation rate: 30 ±2 rpm Verified Rotation rate: 31 rpm *End pH = pH of representative sample (if initially >5.0) after adding 1N HCl and heating @ 50°C (covered) for 10 minutes and then cooled to room temperature.

M=Metals, SV=Semi Volatiles, V=Volatiles, WC=Wet Chemistry

% Solids Calculation Worksheet

Tare weights (g) | Transfer weights (g) | Separation weights (g) | % Solids Calculations

Sample #	A Filter wt.	B Filtrate Vessel wt.	C Transfer Vessel wt.	D Sample + Transfer Vessel	E Sample wt {D - C}	F Vessel wt. Post Transfer	G Residue wt. {F – C}	H Total Waste Amount {E – G}	I Filtrate Vessel + Filtrate	J Liquid Phase of Sample {I – B}	K Solid Phase of Sample {H – J}	L. % Solids (**) (K/H*100)	M Waste + Filter (Dry) wt. (g)	% Solids (Dry) ({M – A}/H)*100
							11-21-19	Bmm						

(***) If Solids = <0.5%, treat filtrate as TCLP extract, if free liquid present use % Solids Calculation Worksheet

Reviewed By/Date:

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W112419.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV3019B\BFB2.D
Injection Date : 01 Dec 2019 Log Time Period (hrs) : ALL
Injection Time : 08:21 Total files within period : 27
Sample Directory : C:\INSTARCH\DATA\NOV3019B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCV-LCS2	1.00	1.00	1.00	167041,LCSW, 10.0/100 ug/L, 5.0 mL Pur	1 Dec 2019	08:37
TLCS1	1.00	1.00	1.00	167058,LCSW,100 pH5, 10.0/100 ug/L, 5.0 m	1 Dec 2019	14:04
TMB1	1.00	1.00	1.00	167058,MBW,100 pH5, 5.0 mL Purged + IS/	1 Dec 2019	14:34
356218	1.00	1.00	1.00	167058,356218,100 pH5, 5.0 mL Purged + IS/	1 Dec 2019	15:04
TLCSD1	1.00	1.00	1.00	167057,LCDSW,100 pH5, 10.0/100 ug/L, 5.0 m	1 Dec 2019	19:02

8260 ISTD/SSTD 20ug/ml VOC0645
8260 BFB STD. 50ug/ml VOC0644
8260 ICV STD. 100ug/ml VOC0648
8260 CCV/CALIB. 100ug/ml VOC0649

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Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W112419.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\NOV2419B\BFB1.D
Injection Date : 24 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 22:03 Total files within period : 17
Sample Directory : C:\INSTARCH\DATA\NOV2419B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
WCAL1	1.00	1.00	1.00	INITIAL CALIB. PT1 0.50/5.00 ug/L, 5.0	24 Nov 2019	23:49
WCAL2	1.00	1.00	1.00	INITIAL CALIB. PT2 1.00/10.00 ug/L, 5.0	25 Nov 2019	00:19
WCAL3	1.00	1.00	1.00	INITIAL CALIB. PT3 2.00/20.0 ug/L, 5.0	25 Nov 2019	00:50
WCAL4	1.00	1.00	1.00	INITIAL CALIB. PT4 5.00/50.0 ug/L, 5.0	25 Nov 2019	01:21
WCAL5	1.00	1.00	1.00	INITIAL CALIB. PT5 10.0/100.0 ug/L, 5.0	25 Nov 2019	01:51
WCAL6	1.00	1.00	1.00	INITIAL CALIB. PT6 20.0/200.0 ug/L, 5.0	25 Nov 2019	02:20
WCAL7	1.00	1.00	1.00	INITIAL CALIB. PT7 30.0/300.0 ug/L, 5.0	25 Nov 2019	02:52
WCAL8	1.00	1.00	1.00	INITIAL CALIB. PT8 40.0/400.0 ug/L, 5.0	25 Nov 2019	03:22
WCAL9	1.00	1.00	1.00	INITIAL CALIB. PT9 80.0/800.0 ug/L, 5.0	25 Nov 2019	03:51
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 10.0/100 ug/L, 5.0 m	25 Nov 2019	04:53
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 30.0/300 ug/L, 5.0 m	25 Nov 2019	05:22
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK pH<2, 5.0 mL DI H20	25 Nov 2019	06:24

8260 ISTD/SSTD 20ug/ml VOC0645
8260 BFB STD. 50ug/ml VOC0644
8260 ICV STD. 100ug/ml VOC0648
8260 CCV/CALIB. 100ug/ml VOC0649

FVO4-01 Data Review Checklist

INDEPENDENT DATA REVIEW CHECKLIST			Method: GCMS (EPA SW-846 8260C)				
Analysis Date	**LIMS Run #(s):**	**Analyst/Data Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved?**		**Instrument**
					Yes	No	
11/30/19B	167074 167073 167059 167058 167057	DGS/RLD	RLD	12/06/2019	Yes		VMS3

Instructions: Complete one checklist per *analytical sequence* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

Requirement	Acceptance Criteria	Analyst Review		Independent Review		Comments
		Yes	No	Yes	No	
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?	Lowest standard at or below RL?	Yes		Yes		
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF<or= specified limits (<15%D.)see SOP)	Yes		Yes		
Was a second-source ICV(s) analyzed (for Quadratic Curve)?	Required before sample analyses.	Yes		Yes		
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits	Yes		Yes		
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		
Was a second CCV (CCV2) for compounds calibrated using quadratic curves analyzed after every 12 hour tune check?	Required before analyses of WI samples (above the inflection point of the curve).		No		No	
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		
If necessary, were the results for outlying compounds qualified?						

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)	Yes		Yes		
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?						
V. Laboratory Control Spike (LCS)						
Was a LCS (and LCSD if needed) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		
Were the LCS (LCSD) recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						
Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable?	Default 20%, or see internally generated limits, or client specific limits.	Yes		Yes		
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	N/A		N/A		
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	N/A		N/A		
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	Default 20%, or see internally generated limits, or client specific limits.	N/A		N/A		
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		
If possible, were the affected samples reanalyzed?						
**Were reported sample results with failing surrogate recoveries qualified?						
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		
Were all data, calculations, and values verified in LIMS (including removal of non-detections) upon completion of data capture?		Yes		Yes		
Were manual integrations performed correctly?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms.	Yes		Yes		
Was the rational for the manual integration verified?		Yes		Yes		
Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet?		Yes		Yes		

Non-Applicable Yes/No Cells Are Left Blank

Comments:

LPVO1-03-VOC
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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0648	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0937, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0934, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0936 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	11/20/2019	11/27/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0649	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0933, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0935 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	11/20/2019	11/27/2019	RLD

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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0644	8260 BFB Std.	75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V0929 into 2925uL of MeOH.	MeOH / B&J / DU783-U	50 ug/mL	11/11/2019	12/11/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0645	8260 ISTD/SSTD	200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V0906 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V0924 into 25mL of MeOH.	MeOH / B&J /DU783-US	20 ug/mL	11/11/2019	12/11/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0646	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0934, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0936 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	11/11/2019	11/18/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0647	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0933, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0935 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	11/11/2019	11/18/2019	RLD

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VOC0642	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0929, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0935 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	11/02/2019	11/09/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0643	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0930, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0936 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	11/02/2019	11/09/2019	RLD

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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0637	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0929, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0935 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	10/25/2019	11/01/2015	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0638	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0930, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0936 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	10/25/2019	11/01/2019	RLD

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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0635	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0929, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0935 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	10/18/2019	10/25/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0636	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0930, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0936 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	10/18/2019	10/25/2019	RLD

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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0631	8260 BFB Std.	75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V0896 into 2925uL of MeOH.	MeOH / B&J / DU783-U	50 ug/mL	10/10/2019	11/10/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0632	8260 ISTD/SSTD	200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V0906 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V0924 into 25mL of MeOH.	MeOH / B&J / DU783-U	20 ug/mL	10/10/2019	11/10/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0633	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0929, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0931 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	10/10/2019	10/17/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final	Prep Date	Expiration	Analyst

				Concentration		Date	
VOC0634	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0930, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0932 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	10/10/2019	10/17/2019	RLD

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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0629	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0929, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0931 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	09/30/2019	10/07/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0630	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0930, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0932 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	09/30/2019	10:07/2019	RLD

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Author: rdigmann on: 9/26/2019 12:31:09 PM
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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0627	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0929, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0931 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	09/20/2019	09/27/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0628	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0930, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0932 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	09/20/2019	09/27/2019	RLD

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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0623	8260 BFB Std.	75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V0896 into 2925uL of MeOH.	MeOH / B&J / DU783-U	50 ug/mL	09/10/2019	10/10/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0624	8260 ISTD/SSTD	200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V0906 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V0894 into 25mL of MeOH.	MeOH / B&J / DU783-U	20 ug/mL	09/10/2019	10/10/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0625	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0929, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0931 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	09/10/2019	09/17/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst

VOC0626	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0930, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0932 into 2250uL of MeOH.	MeOH / B&J / DU783-U	100 ug/mL	09/10/2019	09/17/2019	RLD

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Author: rdigmann on: 8/29/2019 9:57:01 AM
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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0621	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0929, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0931 into 2250uL of MeOH.	MeOH / B&J / DT961	100 ug/mL	08/28/2019	09/04/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0622	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0930, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0932 into 2250uL of MeOH.	MeOH / B&J / DT961	100 ug/mL	08/28/2019	09/04/2019	RLD

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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0615	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0917, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0931 into 2250uL of MeOH.	MeOH / B&J / DT961	100 ug/mL	08/18/2019	08/25/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0616	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0918, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0932 into 2250uL of MeOH.	MeOH / B&J / DT961	100 ug/mL	08/18/2019	08/25/2019	RLD

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Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0611	8260 BFB Std.	75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V0896 into 2925uL of MeOH.	MeOH / B&J / DT961	50 ug/mL	08/09/2019	09/09/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0612	8260 ISTD/SSTD	200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V0906 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V0894 into 25mL of MeOH.	MeOH / B&J / DT961	20 ug/mL	08/09/2019	09/09/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0613	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0914, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0917, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0931 into 2250uL of MeOH.	MeOH / B&J / DT961	100 ug/mL	08/09/2019	08/16/2019	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst

VOC0614	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0926, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0918, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0932 into 2250uL of MeOH.	MeOH / B&J / DT961	100 ug/mL	08/09/2019	08/16/2019	RLD

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LSVO1-01
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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0937	8260 VOC Mix	AccuStandard	M-502-10X-PAK	219071161
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	07/16/2022	10/23/2019	rld
# of Ampules/Units:	5	Comments:	Used for 8260 ICV/Spiking Std. preparation.	

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LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 90
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Author: rdigmann on: 10/23/2019 10:32:17 AM
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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0935	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	EN191010015
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	4/7/2020	10/17/2019	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0936	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	EN191010019
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	04/07/2020	10/17/2019	rld
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Standard preparation.	

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LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0933	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	EN190913011
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 - 10,000 ug/mL	MeOH	12/12/2019	09/20/2019	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0934	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	EN190913023
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 - 10,000 ug/mL	MeOH	12/12/2019	09/20/2019	rld
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Standard preparation.	

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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0929B	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	EN190725002
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	10/23/2019	07/31/2019	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0930	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	EN190725006
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	10/23/2019	07/31/2019	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib.Standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0931	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	EN190716019
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	01/12/2020	07/31/2019	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #

V0932	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	EN190716025
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	01/12/2020	07/31/2019	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib.Standard preparation.	

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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0929	4-Bromofluorobenzene	Agilent	STS-110N	0006476760
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	7/31/2022	09/10/2019	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 BFB Std. and 8015 SSTD.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0926	8260 VOC Mix	Agilent	DWM-588-1	CT-0288
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	02/28/2022	06/26/2019	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 CCV/Calib. standard preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0923	4-Bromofluorobenzene	Agilent	STS-110N	CM-3263A
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	06/30/2020	06/20/2019	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 BFB Std. and PVOC/GRO SSTD & ISTD/SSTD preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0924	1,2-Dichlorobenzene-$_{d4}$	Agilent	STS-210-1	CM-4301A
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	07/31/2021	06/20/2019	RLD
# of Ampules/Units:	2	Comments:	Used for GRO-8015 and SDWA 524.2 surrogate standard preparation.	

LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
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Page Title: 052019

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0915	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	EN190513003
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	11/09/2019	05/17/2019	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0916	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	EN190513011
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	11/09/2019	5/17/2019	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Std. preparation.	

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LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
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Author: rdigmann on: 5/20/2019 8:18:42 AM
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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0914	8260 VOC Mix	AccuStandard	M-502-10X-PAK	218101050
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	10/08/2021	04/25/2019	RLD
# of Ampules/Units:	5	Comments:	Used for 8260 ICV/Spiking Standard preparation.	

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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0896	4-Bromofluorobenzene	Ultra Scientific	STS-110N	CM-3263A
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	06/30/2020	10/15/2018	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 BFB Std. and PVOC/GRO SSTD & ISTD/SSTD preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0894	1,2-Dichlorobenzene-$_{d4}$	Ultra Scientific	STS-210-1	CM-4301A
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	07/31/2021	09/19/2018	RLD
# of Ampules/Units:	4	Comments:	Used for GRO-8015 and SDWA 524.2 surrogate standard preparation.	

SEMI-VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL SUMMARY
DOCUMENTS

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description: **46ADPT-TCLP**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TCLP	SDG No.:	149511
Sample wt/vol:	0.10 (g/L)	CTL Sample ID:	356218
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/20/2019 / 14:00
Analytical Method:	EPA 8270D	Analytical Prep Batch #	74636
Analytical Run #:	166847	Dilution Factor:	1.00
Date & Time Analyzed:	11/21/2019 / 13:19	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			11/16/2019 / 09:10
ICAL Calibration #:	2S111919	Concentration Units:	mg/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
106-46-7	1,4-Dichlorobenzene	0.0040	U	0.0019	0.0040	0.010	0.010
95-95-4	2,4,5-Trichlorophenol	0.020	U	0.011	0.020	0.050	0.050
88-06-2	2,4,6-Trichlorophenol	0.020	U	0.010	0.020	0.050	0.050
121-14-2	2,4-Dinitrotoluene	0.0040	U	0.0021	0.0040	0.010	0.010
95-48-7	2-Methylphenol	0.020	U	0.0086	0.020	0.050	0.050
1319-77-3	3 & 4-Methylphenol	0.036	U	0.014	0.036	0.090	0.090
118-74-1	Hexachlorobenzene	0.0040	U	0.0027	0.0040	0.010	0.010
87-68-3	Hexachlorobutadiene	0.0040	U	0.0018	0.0040	0.010	0.010
67-72-1	Hexachloroethane	0.0040	U	0.0022	0.0040	0.010	0.010
98-95-3	Nitrobenzene	0.0040	U	0.0016	0.0040	0.010	0.010
87-86-5	Pentachlorophenol	0.020	U	0.011	0.020	0.050	0.050
110-86-1	Pyridine	0.010	U	0.0062	0.010	0.030	0.040

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

47WW09

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	0.50 (g/L)	CTL Sample ID:	356222
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/14/2019 / 08:00
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	74516
Analytical Run #:	166715	Dilution Factor:	1.00
Date & Time Analyzed:	11/22/2019 / 14:32	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2DIOXN07	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
123-91-1	1,4-Dioxane	37		0.40	1.0	2.0	2.0

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

47WW25R-35

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	0.50 (g/L)	CTL Sample ID:	356227
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/14/2019 / 08:00
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	74516
Analytical Run #:	166715	Dilution Factor:	1.00
Date & Time Analyzed:	11/22/2019 / 15:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2DIOXN07	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
123-91-1	1,4-Dioxane	1.0	U	0.40	1.0	2.0	2.0

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

47WW25R-38

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	0.50 (g/L)	CTL Sample ID:	356228
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/14/2019 / 08:00
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	74516
Analytical Run #:	166715	Dilution Factor:	1.00
Date & Time Analyzed:	11/22/2019 / 15:53	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2DIOXN07	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
123-91-1	1,4-Dioxane	1.0	U	0.40	1.0	2.0	2.0

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DPT-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	0.50 (g/L)	CTL Sample ID:	356214
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/14/2019 / 08:00
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	74516
Analytical Run #:	166715	Dilution Factor:	1.00
Date & Time Analyzed:	11/22/2019 / 13:32	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2DIOXN07	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
123-91-1	1,4-Dioxane	1.0	U	0.40	1.0	2.0	2.0

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DPT-005

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	0.50 (g/L)	CTL Sample ID:	356215
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/14/2019 / 08:00
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	74516
Analytical Run #:	166715	Dilution Factor:	1.00
Date & Time Analyzed:	11/22/2019 / 13:52	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2DIOXN07	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
123-91-1	1,4-Dioxane	1.0	U	0.40	1.0	2.0	2.0

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SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DPT-010

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	0.50 (g/L)	CTL Sample ID:	356217
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/14/2019 / 08:00
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	74516
Analytical Run #:	166715	Dilution Factor:	1.00
Date & Time Analyzed:	11/22/2019 / 14:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2DIOXN07	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
123-91-1	1,4-Dioxane	1.0	U	0.40	1.0	2.0	2.0

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

DUP-006

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	0.50 (g/L)	CTL Sample ID:	356226
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/14/2019 / 08:00
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	74516
Analytical Run #:	166715	Dilution Factor:	1.00
Date & Time Analyzed:	11/22/2019 / 15:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2DIOXN07	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
123-91-1	1,4-Dioxane	1.0	U	0.40	1.0	2.0	2.0

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1B

SEMIVOLATILE ORGANICS ANALYSIS

Sample Description

EB-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	GROUND WATER	SDG No.:	149511
Sample wt/vol:	0.50 (g/L)	CTL Sample ID:	356223
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/14/2019 / 08:00
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	74516
Analytical Run #:	166715	Dilution Factor:	1.00
Date & Time Analyzed:	11/22/2019 / 14:52	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2DIOXN07	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
123-91-1	1,4-Dioxane	1.0	U	0.40	1.0	2.0	2.0

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1B-2

SEMIVOLATILE ORGANICS ANALYSIS (MB or CC

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	0.50 (g/L)	CTL Sample ID:	357990
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10.0 (mL)	Date/Time Prepared:	11/14/2019 / 08:00
Analytical Method:	EPA 8270D-SIM	Analytical Prep Batch #	74516
Analytical Run #:	166715	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	2DIOXN07	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
123-91-1	1,4-Dioxane	11/22/2019	12:52	0.4	U	0.4	2.0	***1.0***

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1B-2

SEMIVOLATILE ORGANICS ANALYSIS (MB or CC

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	0.10 (g/L)	CTL Sample ID:	360330
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	1.0 (mL)	Date/Time Prepared:	11/20/2019 / 14:00
Analytical Method:	EPA 8270D	Analytical Prep Batch #	74636
Analytical Run #:	166847	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			11/16/2019 / 09:10
ICAL Calibration #:	2S111919	Concentration Units:	mg/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
106-46-7	1,4-Dichlorobenzene	11/21/2019	11:54	0.00019	U	0.00019	0.00100	***0.00050***
95-95-4	2,4,5-Trichlorophenol	11/21/2019	11:54	0.0011	U	0.0011	0.0050	***0.0025***
88-06-2	2,4,6-Trichlorophenol	11/21/2019	11:54	0.0010	U	0.0010	0.0050	***0.0025***
121-14-2	2,4-Dinitrotoluene	11/21/2019	11:54	0.00021	U	0.00021	0.00100	***0.00050***
95-48-7	2-Methylphenol	11/21/2019	11:54	0.00086	U	0.00086	0.00500	***0.002500***
1319-77-3	3 & 4-Methylphenol	11/21/2019	11:54	0.0014	U	0.0014	0.0090	***0.0045***
118-74-1	Hexachlorobenzene	11/21/2019	11:54	0.00027	U	0.00027	0.00100	***0.00050***
87-68-3	Hexachlorobutadiene	11/21/2019	11:54	0.00018	U	0.00018	0.00100	***0.00050***
67-72-1	Hexachloroethane	11/21/2019	11:54	0.00022	U	0.00022	0.00100	***0.00050***
98-95-3	Nitrobenzene	11/21/2019	11:54	0.00016	U	0.00016	0.00100	***0.00050***
87-86-5	Pentachlorophenol	11/21/2019	11:54	0.0011	U	0.0011	0.0050	***0.0025***
110-86-1	Pyridine	11/21/2019	11:54	0.00062	U	0.00062	0.00400	***0.00200***

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2C

WATER SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8270D	SDG:	149511
Analytical Run #:	166847	ICAL Calibration #:	2S111919

CTLab #	356218				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	95	43	140	
Surr: 2-Fluorobiphenyl	100	75	44	119	
Surr: 2-Fluorophenol	100	64	19	119	
Surr: Nitrobenzene-d5	100	108	44	120	
Surr: Phenol-d5	100	53	1	114	
Surr: Terphenyl-d14	100	95	50	134	

CTLab #	356624				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	85	43	140	
Surr: 2-Fluorobiphenyl	100	60	44	119	
Surr: 2-Fluorophenol	100	48	19	119	
Surr: Nitrobenzene-d5	100	60	44	120	
Surr: Phenol-d5	100	38	1	114	
Surr: Terphenyl-d14	100	71	50	134	

CTLab #	356626				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	84	43	140	
Surr: 2-Fluorobiphenyl	100	59	44	119	
Surr: 2-Fluorophenol	100	45	19	119	
Surr: Nitrobenzene-d5	100	57	44	120	
Surr: Phenol-d5	100	34	1	114	
Surr: Terphenyl-d14	100	80	50	134	

CTLab #	360330	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	84.2	43	140	
Surr: 2-Fluorobiphenyl	100	61.4	44	119	
Surr: 2-Fluorophenol	100	51.8	19	119	
Surr: Nitrobenzene-d5	100	63.0	44	120	
Surr: Phenol-d5	100	40.6	1	114	
Surr: Terphenyl-d14	100	96.9	50	134	

CTLab #	360331	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	74.0	43	140	
Surr: 2-Fluorobiphenyl	100	59.8	44	119	
Surr: 2-Fluorophenol	100	46.3	19	119	
Surr: Nitrobenzene-d5	100	53.5	44	120	
Surr: Phenol-d5	100	40.0	1	114	
Surr: Terphenyl-d14	100	86.6	50	134	

CT LABORATORIES
delivering more than data from your environmental analyses

2C

WATER SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Analytical Method:	EPA 8270D	SDG:	149511
Analytical Run #:	166847	ICAL Calibration #:	2S111919

CTLab #	360333	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4,6-Tribromophenol	100	93.5	43	140	
Surr: 2-Fluorobiphenyl	100	63.1	44	119	
Surr: 2-Fluorophenol	100	46.5	19	119	
Surr: Nitrobenzene-d5	100	56.6	44	120	
Surr: Phenol-d5	100	41.5	1	114	
Surr: Terphenyl-d14	100	75.2	50	134	

CT LABORATORIES
delivering more than data from your environmental analyses

2C

WATER SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Analytical Method: EPA 8270D-SIM | SDG: 149511

Analytical Run #: 166715 | ICAL Calibration #: 2DIOXN07

CTLab #	356214				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	74	50	150	

CTLab #	356215				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	70	50	150	

CTLab #	356217				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	64	50	150	

CTLab #	356222				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	64	50	150	

CTLab #	356223				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	78	50	150	

CTLab #	356226				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	49	50	150	*FAIL*

CTLab #	356227				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	55	50	150	

CTLab #	356228				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	42	50	150	*FAIL*

CTLab #	357990	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8		81.8	50	150	

CTLab #	357991	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	86.5	50	150	

CTLab #	357995	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	58.9	50	150	

CTLab #	357996	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,4-Dioxane-d8	100	53.1	50	150	

CT LABORATORIES
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3C

WATER SEMIVOLATILE MATRIX SPIKE RECOVERY

Sample Description

47WW25R-35

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8270D-SIM Concentration Units: ug/L

Analytical Run #: 166715 Sample No.: 357995 Parent Sample No.: 356227

Analytical Prep Batch #: 74516 Analytical Preparation Date/Time: 11/14/2019 08:00

ICAL Calibration #: 2DIOXN07

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,4-Dioxane	11/22/2019 16:13	50-150	14.9	BDL	20.0	74

Spike Recovery: 0 out of 1 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3C

Sample Description

WATER SEMIVOLATILE MATRIX DUPLICATE SPIKE RECOVERY

47WW25R-35

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: GROUND WATER SDG No.: 149511

Analytical Method: EPA 8270D-SIM Concentration Units: ug/L

Analytical Run #: 166715 Sample No.: 357996 Parent Sample No.: 357995

Analytical Prep Batch #: 74516 Analytical Preparation Date/Time: 11/14/2019 08:00

ICAL Calibration #: 2DIOXN07

Analyte	Analysis Date/Time	Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)
1,4-Dioxane	11/22/2019 16:33	14.1	20.0	70	5	50-150	30

RPD or Spike Recovery: 0 out of 1 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3C

Sample Description

LCS

WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Sample No.: 357991 SDG No.: 149511

Analytical Method: EPA 8270D-SIM Concentration Units: ug/L

Sample No.: 357991 Parent Sample No.: 0

Analytical Prep Batch #: 74516 Analytical Preparation Date/Time: 11/14/2019 08:00

Analytical Run #: 166715 ICAL Calibration #: 2DIOXN07

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,4-Dioxane	11/22/2019	13:12	50-150	18.5		20.0	92

Spike Recovery: 0 out of 1 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3C

Sample Description

LCS

WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Sample No.: 360331 SDG No.: 149511

Analytical Method: EPA 8270D Concentration Units: mg/L

Sample No.: 360331 Parent Sample No.: 0

Analytical Prep Batch #: 74636 Analytical Preparation Date/Time: 11/20/2019 14:00

Analytical Run #: 166847 ICAL Calibration #: 2S111919

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,4-Dichlorobenzene	11/21/2019	12:58	29-112	0.103		0.200	52
2,4,5-Trichlorophenol	11/21/2019	12:58	53-123	0.154		0.200	77
2,4,6-Trichlorophenol	11/21/2019	12:58	50-125	0.147		0.200	74
2,4-Dinitrotoluene	11/21/2019	12:58	57-128	0.163		0.200	82
2-Methylphenol	11/21/2019	12:58	30-117	0.113		0.200	56
3 & 4-Methylphenol	11/21/2019	12:58	29-110	0.113		0.200	56
Hexachlorobenzene	11/21/2019	12:58	53-125	0.176		0.200	88
Hexachlorobutadiene	11/21/2019	12:58	22-124	0.110		0.200	55
Hexachloroethane	11/21/2019	12:58	21-115	0.102		0.200	51
Nitrobenzene	11/21/2019	12:58	45-121	0.115		0.200	58
Pentachlorophenol	11/21/2019	12:58	35-138	0.167		0.200	84
Pyridine	11/21/2019	12:58	0-106	0.0701		0.200	35

Spike Recovery: 0 out of 12 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	357990	SDG No.:	149511
Matrix:	LIQUID	Date Extracted:	11/14/2019
Date Analyzed:	11/22/2019	Time Analyzed:	12:52
Analytical Method:	EPA 8270D-SIM	Extraction Method:	SW3535
Analytical Run #:	166715	Extraction Batch #:	74516
		ICAL Calibration #:	2DIOXN07

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	MBW	357990	11/22/2019 12:52	2DIOXN07
2	LCSW	357991	11/22/2019 13:12	2DIOXN07
3	DPT-001	356214	11/22/2019 13:32	2DIOXN07
4	DPT-005	356215	11/22/2019 13:52	2DIOXN07
5	DPT-010	356217	11/22/2019 14:12	2DIOXN07
6	47WW09	356222	11/22/2019 14:32	2DIOXN07
7	EB-003	356223	11/22/2019 14:52	2DIOXN07
8	DUP-006	356226	11/22/2019 15:12	2DIOXN07
9	47WW25R-35	356227	11/22/2019 15:33	2DIOXN07
10	47WW25R-38	356228	11/22/2019 15:53	2DIOXN07
11	47WW25R-35MSW	357995	11/22/2019 16:13	2DIOXN07
12	47WW25R-35MSDW	357996	11/22/2019 16:33	2DIOXN07

CT LABORATORIES
delivering more than data from your environmental analyses

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	360330	SDG No.:	149511
Matrix:	LIQUID	Date Extracted:	11/20/2019
Date Analyzed:	11/21/2019	Time Analyzed:	11:54
Analytical Method:	EPA 8270D	Extraction Method:	SW3510
Analytical Run #:	166847	Extraction Batch #:	74636
		ICAL Calibration #:	2S111919

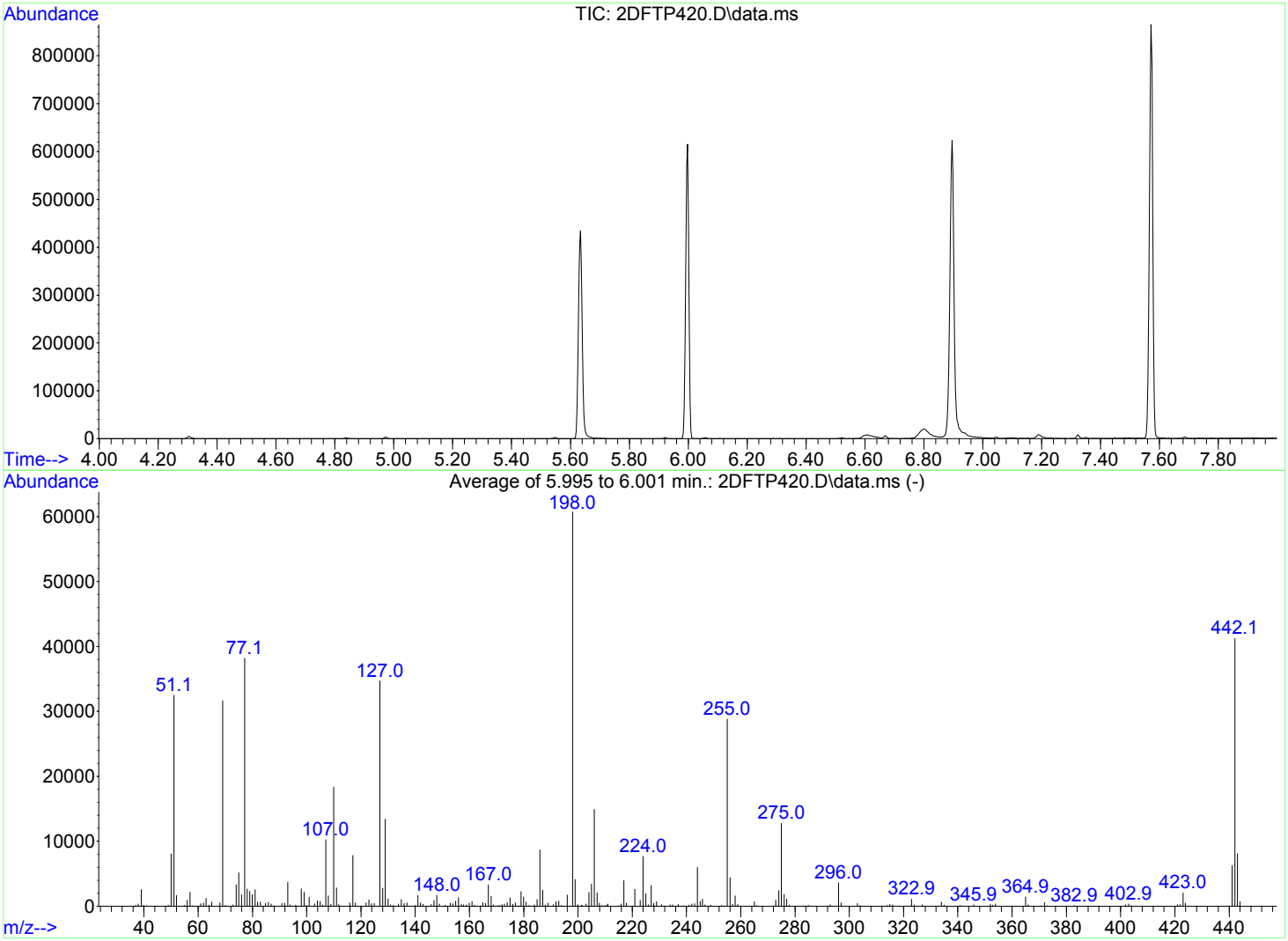
THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	MBW	360330	11/21/2019 11:54	2S111919
2	LCSW	360331	11/21/2019 12:58	2S111919
3	46ADPT-TCLP	356218	11/21/2019 13:19	2S111919
4	ACADM-WW-001MSW	360333	11/21/2019 14:23	2S111919

DFTPP

Data File : C:\INSTARCH\DATA\2S111919\2DFTP420.D Vial: 1
Acq On : 19 Nov 2019 10:35 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTPP2.M
Title : DFTPP TUNE
Last Update : Fri Nov 22 10:40:45 2019



AutoFind: Scans 954, 955, 956; Background Corrected with Scan 946

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	53.5	32499	PASS
68	69	0.00	2	1.6	502	PASS
70	69	0.00	2	0.5	151	PASS
127	198	10	80	57.1	34688	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	60728	PASS
199	198	5	9	6.8	4113	PASS
275	198	10	60	21.0	12765	PASS
365	198	1	100	2.3	1420	PASS
441	442	0.01	24	15.1	6244	PASS
442	198	50	100	67.9	41224	PASS
443	442	15	24	19.7	8103	PASS

Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S111919.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S111919\2DFTP420.D
Injection Date : 19 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 10:35 Total files within period : 10
Sample Directory : C:\INSTARCH\DATA\2S111919\

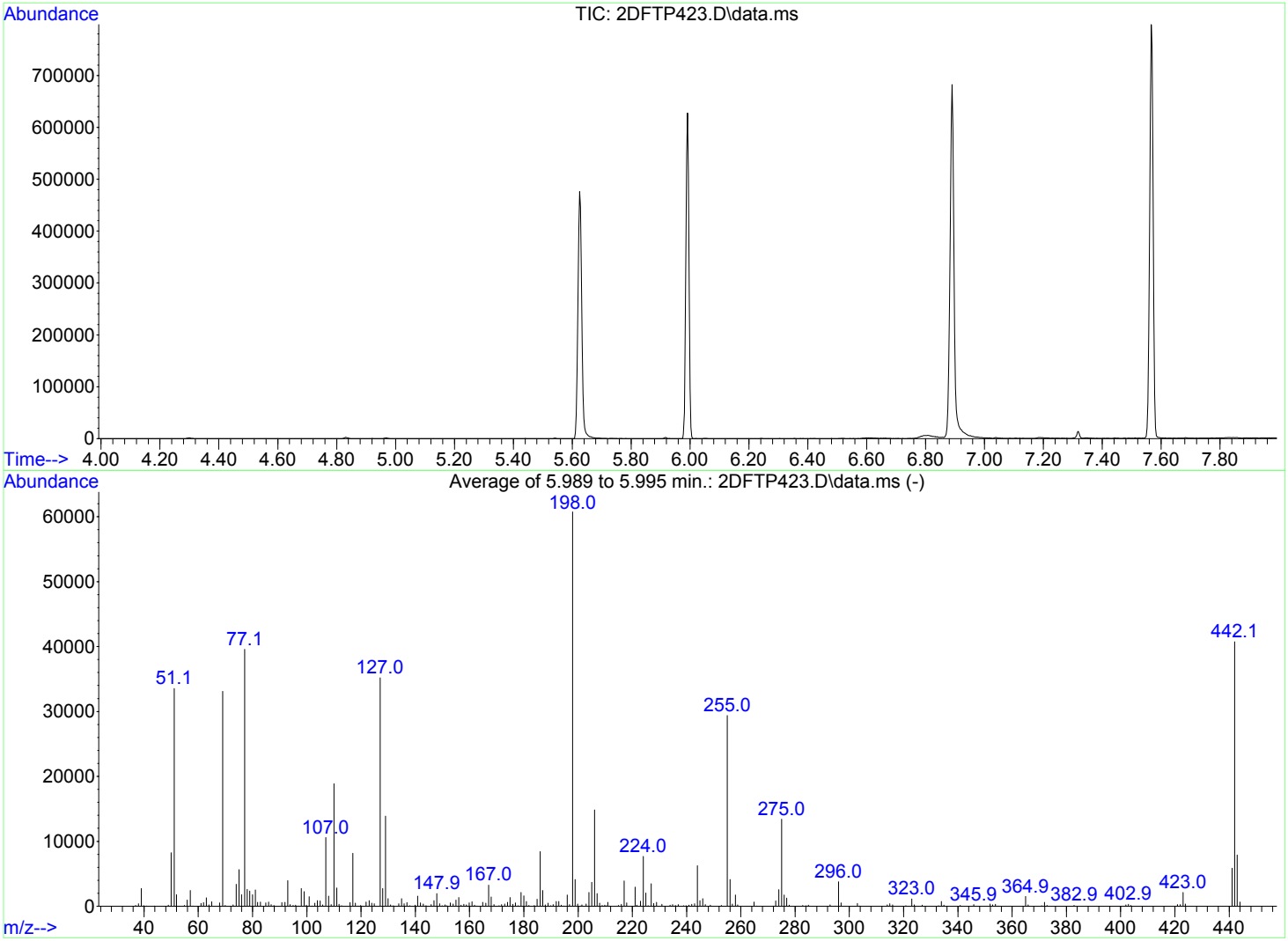
Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
2IB01	1.00	1.00	1.00	InstrumentBlank 500ul+5ul IS S4170B	19 Nov 2019	10:50
2ICAL7	1.00	1.00	1.00	ICAL 50ug/mL SVMS8532 500ul+5ul IS S4170B	19 Nov 2019	11:12
2ICAL6	1.00	1.00	1.00	ICAL 40ug/mL SVMS8531 500ul+5ul IS S4170B	19 Nov 2019	11:33
2ICAL5	1.00	1.00	1.00	ICAL 30ug/mL SVMS8530 500ul+5ul IS S4170B	19 Nov 2019	11:54
2ICAL4	1.00	1.00	1.00	ICAL 20ug/mL SVMS8529 500ul+5ul IS S4170B	19 Nov 2019	12:15
2ICAL3	1.00	1.00	1.00	ICAL 10ug/mL SVMS7528 500ul+5ul IS S4170B	19 Nov 2019	12:36
2ICAL2	1.00	1.00	1.00	ICAL 5ug/mL SVMS8527 500ul+5ul IS S4170B	19 Nov 2019	12:57
2ICAL1	1.00	1.00	1.00	ICAL 1ug/mL SVMS8526 500ul+5ul IS S4170B	19 Nov 2019	13:19
2ICV1	1.00	1.00	1.00	ICV 20ug/mL SVMS8533 500ul+5ul IS S4170B	19 Nov 2019	13:40
2ICV2	1.00	1.00	1.00	ICV 40ug/mL SVMS8534 500ul+5ul IS S4170B	19 Nov 2019	14:01

DFTPP

Data File : C:\INSTARCH\DATA\2S112019\2DFTP423.D Vial: 1
Acq On : 21 Nov 2019 9:48 Operator: RPN
Sample : DFTPP TUNE SVMS8538 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTPP2.M
Title : DFTPP TUNE
Last Update : Fri Nov 22 10:40:45 2019



AutoFind: Scans 952, 953, 954; Background Corrected with Scan 944

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	55.2	33536	PASS
68	69	0.00	2	1.6	538	PASS
70	69	0.00	2	0.4	138	PASS
127	198	10	80	58.0	35213	PASS
197	198	0.00	2	0.5	279	PASS
198	198	50	100	100.0	60749	PASS
199	198	5	9	6.8	4113	PASS
275	198	10	60	22.0	13393	PASS
365	198	1	100	2.5	1506	PASS
441	442	0.01	24	14.4	5868	PASS
442	198	50	100	67.0	40731	PASS
443	442	15	24	19.4	7895	PASS

Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S111919.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S112019\2DFTP422.D
Injection Date : 20 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 12:58 Total files within period : 37
Sample Directory : C:\INSTARCH\DATA\2S112019\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
2CCV572	1.00	1.00	1.00	CCV 20ug/mL SVMS8535 500ul+5ul IS S4170B	20 Nov 2019	13:14
2MBW01	1.00	1.00	1.00	166802,MBW, 357226,500ul+5ul IS S4170	20 Nov 2019	13:35
2LCSW01	1.00	1.00	1.00	166802,LCSW, 357227,500ul+5ul IS S4170	20 Nov 2019	13:56
353389	1.00	1.00	1.00	166393,353389,50 500ul+5ul IS S4170B	20 Nov 2019	14:17
357029	1.00	1.00	1.00	166802,357029, 500ul+5ul IS S4170B	20 Nov 2019	14:38
357030	1.00	1.00	1.00	166802,357030, 500ul+5ul IS S4170B	20 Nov 2019	14:59
357031	1.00	1.00	1.00	166802,357031, 500ul+5ul IS S4170B	20 Nov 2019	15:20
357032	1.00	1.00	1.00	166802,357032, 500ul+5ul IS S4170B	20 Nov 2019	15:41
357033	1.00	1.00	1.00	166802,357033, 500ul+5ul IS S4170B	20 Nov 2019	16:03
357034	1.00	1.00	1.00	166802,357034, 500ul+5ul IS S4170B	20 Nov 2019	16:24
357035	1.00	1.00	1.00	166802,357035, 500ul+5ul IS S4170B	20 Nov 2019	16:45
357036	1.00	1.00	1.00	166802,357036, 500ul+5ul IS S4170B	20 Nov 2019	17:06
357037	1.00	1.00	1.00	166802,357037, 500ul+5ul IS S4170B	20 Nov 2019	17:28
357038	1.00	1.00	1.00	166802,357038, 500ul+5ul IS S4170B	20 Nov 2019	17:48
357041	1.00	1.00	1.00	166802,357041, 500ul+5ul IS S4170B	20 Nov 2019	18:09
357032MS	1.00	1.00	1.00	166802,MSW357032, 357229,500ul+5ul IS S4170	20 Nov 2019	18:30
357032SD	1.00	1.00	1.00	166802,MSDW357032, 357230,500ul+5ul IS S4170	20 Nov 2019	18:51
2LCSDW02	1.00	1.00	1.00	166805,LCSDW, 358975,500ul+5ul IS S4170	20 Nov 2019	19:53
358011	1.00	1.00	1.00	166805,358011, 500ul+5ul IS S4170B	20 Nov 2019	20:14
358012	1.00	1.00	1.00	166805,358012, 500ul+5ul IS S4170B	20 Nov 2019	20:35
358013	1.00	1.00	1.00	166805,358013, 500ul+5ul IS S4170B	20 Nov 2019	20:56
358014	1.00	1.00	1.00	166805,358014, 500ul+5ul IS S4170B	20 Nov 2019	21:17

Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S111919.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S112019\2DFTP422.D
Injection Date : 20 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 12:58 Total files within period : 37
Sample Directory : C:\INSTARCH\DATA\2S112019\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
358015	1.00	1.00	1.00	166805,358015, 500ul+5ul IS S4170B	20 Nov 2019	21:38
2DFTP423	1.00	1.00	1.00	DFTPP TUNE SVMS8538 SVMS2, 50ng DFTPP	21 Nov 2019	09:48
2CCV573	1.00	1.00	1.00	CCV 20ug/mL SVMS8535 500ul+5ul IS S4170B	21 Nov 2019	10:04
358016	1.00	1.00	1.00	166805,358016, 500ul+5ul IS S4170B	21 Nov 2019	10:50
358019	1.00	1.00	1.00	166805,358019, 500ul+5ul IS S4170B	21 Nov 2019	11:12
358022	1.00	1.00	1.00	166805,358022, 500ul+5ul IS S4170B	21 Nov 2019	11:33
2MBW02	1.00	1.00	1.00	166847,MBW, 360330,500ul+5ul IS S4170	21 Nov 2019	11:54
2MBTV02	1.00	1.00	1.00	166847,MBTV, 3022,500ul+5ul IS S4170B	21 Nov 2019	12:15
2MBTS02	1.00	1.00	1.00	166847,MBTS, 3022,500ul+5ul IS S4170B	21 Nov 2019	12:36
2LCSW02	1.00	1.00	1.00	166847,LCSW, 360331,500ul+5ul IS S4170	21 Nov 2019	12:58
356218	1.00	1.00	1.00	166847,356218, 500ul+5ul IS S4170B	21 Nov 2019	13:19
356624	1.00	1.00	1.00	166847,356624, 500ul+5ul IS S4170B	21 Nov 2019	13:40
356626	1.00	1.00	1.00	166847,356626, 500ul+5ul IS S4170B	21 Nov 2019	14:01
356624MS	1.00	1.00	1.00	166847,MSW356624, 360333,500ul+5ul IS S4170	21 Nov 2019	14:23
2CCV574	1.00	1.00	1.00	CCV 20ug/mL SVMS8535 500ul+5ul IS S4170B	21 Nov 2019	14:44

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 19 Nov 2019
Instrument ID : SVMS2 Time Analyzed : 12:15
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
ICAL MID PT	27348	5.10	100789	6.41	50951	7.76
UPPER LIMIT	54696	5.60	201578	6.91	101902	8.26
LOWER LIMIT	13674	4.60	50395	5.91	25476	7.26
File ID Sample						
2CCV572 CCV 20ug/	32265	5.09	108686	6.41	52524	7.76
2CCV573 CCV 20ug/	44889	5.09	153971	6.41	75159	7.76
2CCV574 CCV 20ug/	33663	5.09	117722	6.41	59707	7.75
2LCSDW02 166805,LC	36239	5.09	130785	6.41	64772	7.76
2LCSW01 166802,LC	21216	5.09	79693	6.41	39780	7.76
2LCSW02 166847,LC	33533	5.09	123346	6.41	63305	7.75
2MBTS02 166847,MB	24004	5.09	88128	6.41	44624	7.75
2MBTV02 166847,MB	27782	5.10	55654	6.43	36635	7.75
2MBW01 166802,MB	26096	5.09	94000	6.41	47584	7.75
2MBW02 166847,MB	36043	5.09	130932	6.41	67431	7.76
353389 166393,35	28754	5.09	99406	6.41	47908	7.76
356218 166847,35	36382	5.09	88120	6.42	65865	7.75
356624 166847,35	34099	5.09	123697	6.41	64201	7.75
356624MS 166847,MS	26737	5.09	96426	6.41	47987	7.75
356626 166847,35	19078	5.09	66946	6.41	33731	7.75
357029 166802,35	40229	5.09	140517	6.41	68440	7.75
357030 166802,35	24372	5.09	90765	6.41	45784	7.76
357031 166802,35	39042	5.09	145571	6.41	74494	7.75
357032 166802,35	18505	5.09	70760	6.41	34712	7.75
357032MS 166802,MS	45887	5.09	160900	6.41	80247	7.76
357032SD 166802,MS	40942	5.09	146161	6.41	74173	7.75
357033 166802,35	38734	5.09	141857	6.41	71742	7.75
357034 166802,35	46906	5.09	168095	6.41	86001	7.75
357035 166802,35	34889	5.09	129171	6.41	66083	7.75
357036 166802,35	28671	5.09	105761	6.41	50648	7.75

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 19 Nov 2019
Instrument ID : SVMS2 Time Analyzed : 12:15
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
ICAL MID PT	27348	5.10	100789	6.41	50951	7.76
UPPER LIMIT	54696	5.60	201578	6.91	101902	8.26
LOWER LIMIT	13674	4.60	50395	5.91	25476	7.26
File ID Sample						
357037 166802,35	18476	5.09	68230	6.41	35709	7.75
357038 166802,35	41958	5.09	152405	6.41	77452	7.75
357041 166802,35	39321	5.09	143288	6.41	73091	7.76
358011 166805,35	42465	5.09	157743	6.41	80388	7.75
358012 166805,35	33469	5.09	124346	6.41	63084	7.75
358013 166805,35	22199	5.09	81298	6.41	40235	7.75
358014 166805,35	44696	5.09	158764	6.41	81071	7.75
358015 166805,35	41509	5.09	151084	6.41	78193	7.75
358016 166805,35	20025	5.09	71719	6.41	36523	7.75
358019 166805,35	26508	5.09	99779	6.41	51512	7.76
358022 166805,35	24798	5.09	87354	6.41	40415	7.76

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 19 Nov 2019
Instrument ID : SVMS2 Time Analyzed : 12:15
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
ICAL MID PT	68989	8.59	61863	10.07	76816	11.12
UPPER LIMIT	137978	9.09	123726	10.57	153632	11.62
LOWER LIMIT	34495	8.09	30932	9.57	38408	10.62
File ID Sample						
2CCV572 CCV 20ug/	64440	8.59	50931	10.07	59328	11.12
2CCV573 CCV 20ug/	89420	8.59	72950	10.07	90733	11.12
2CCV574 CCV 20ug/	73725	8.58	63830	10.06	79498	11.11
2LCSDW02 166805,LC	76349	8.59	59444	10.07	76254	11.12
2LCSW01 166802,LC	51877	8.59	42752	10.07	50433	11.12
2LCSW02 166847,LC	80207	8.59	64952	10.07	77866	11.12
2MBTS02 166847,MB	62943	8.58	50425	10.06	60958	11.11
2MBTV02 166847,MB	58439	8.59	49313	10.06	58855	11.12
2MBW01 166802,MB	68516	8.58	51878	10.06	58474	11.11
2MBW02 166847,MB	94003	8.59	68286	10.06	76155	11.12
353389 166393,35	53405	8.59	46627	10.06	44328	11.11
356218 166847,35	98206	8.59	72475	10.06	82529	11.12
356624 166847,35	92848	8.58	72876	10.06	86156	11.11
356624MS 166847,MS	59264	8.58	50930	10.06	68044	11.11
356626 166847,35	48903	8.58	40337	10.06	50175	11.11
357029 166802,35	93050	8.58	69097	10.06	75136	11.11
357030 166802,35	62272	8.59	45747	10.06	50401	11.12
357031 166802,35	104623	8.59	75522	10.07	78428	11.12
357032 166802,35	47472	8.59	35410	10.06	39636	11.11
357032MS 166802,MS	100541	8.59	81664	10.07	97661	11.12
357032SD 166802,MS	90109	8.58	69856	10.06	86303	11.11
357033 166802,35	101139	8.58	77396	10.06	84224	11.11
357034 166802,35	122252	8.58	91481	10.06	99225	11.11
357035 166802,35	91761	8.59	64853	10.06	67264	11.12
357036 166802,35	67075	8.59	47638	10.06	50451	11.12

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 19 Nov 2019
Instrument ID : SVMS2 Time Analyzed : 12:15
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
ICAL MID PT	68989	8.59	61863	10.07	76816	11.12
UPPER LIMIT	137978	9.09	123726	10.57	153632	11.62
LOWER LIMIT	34495	8.09	30932	9.57	38408	10.62
File ID Sample						
357037 166802,35	49057	8.58	37751	10.06	43137	11.11
357038 166802,35	108266	8.58	81325	10.06	90778	11.11
357041 166802,35	102268	8.59	77425	10.06	84884	11.12
358011 166805,35	113472	8.59	81949	10.06	92087	11.12
358012 166805,35	86038	8.59	56581	10.06	64847	11.11
358013 166805,35	55314	8.59	44439	10.06	53658	11.11
358014 166805,35	107436	8.59	75244	10.06	87890	11.12
358015 166805,35	107295	8.58	72866	10.06	88086	11.11
358016 166805,35	51069	8.58	41979	10.06	56678	11.11
358019 166805,35	73520	8.59	59324	10.07	67632	11.12
358022 166805,35	55225	8.59	52337	10.06	74377	11.12

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

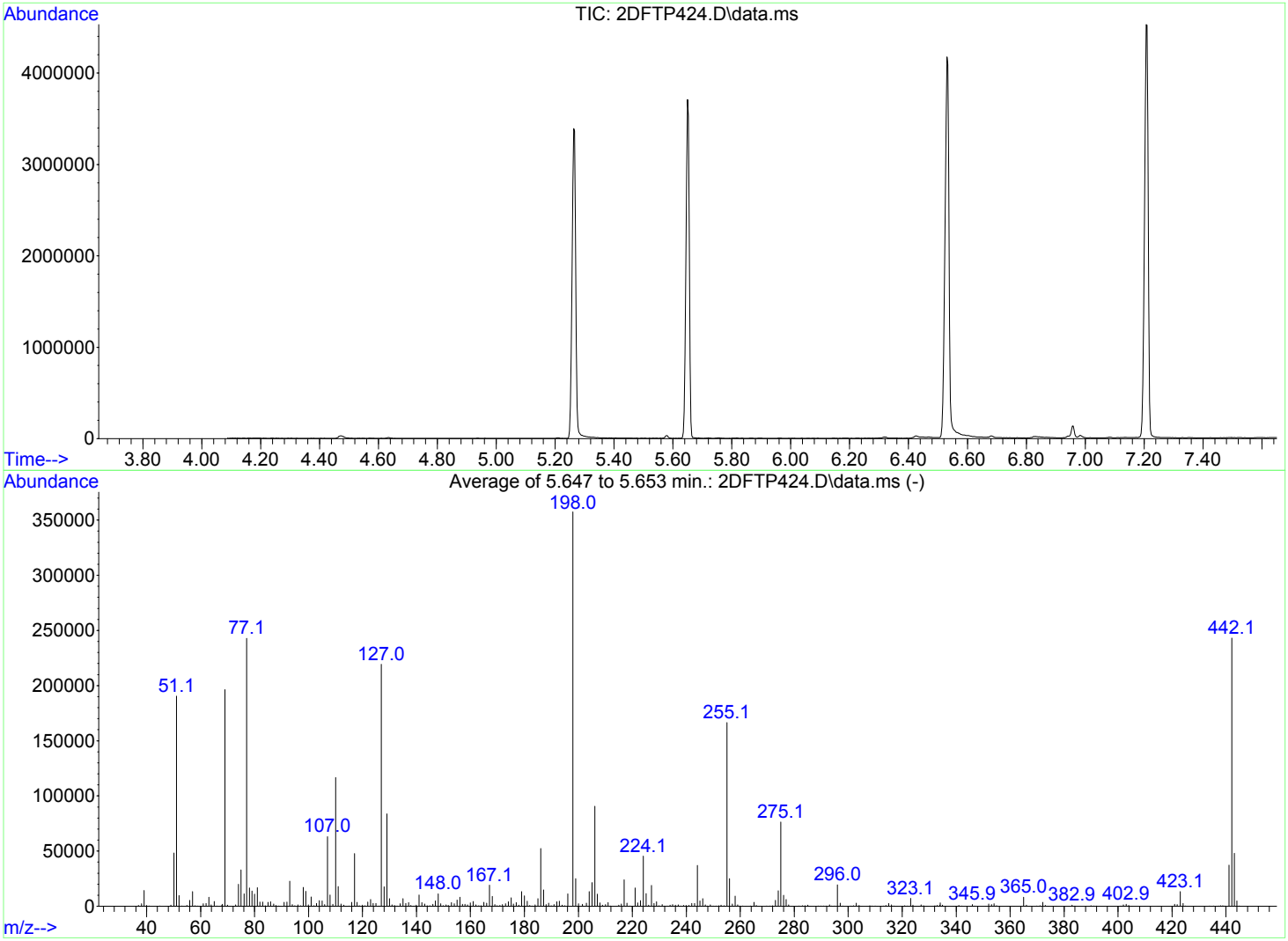
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

DFTPP

Data File : C:\INSTARCH\DATA\2S112119\2DFTP424.D Vial: 1
Acq On : 21 Nov 2019 17:15 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



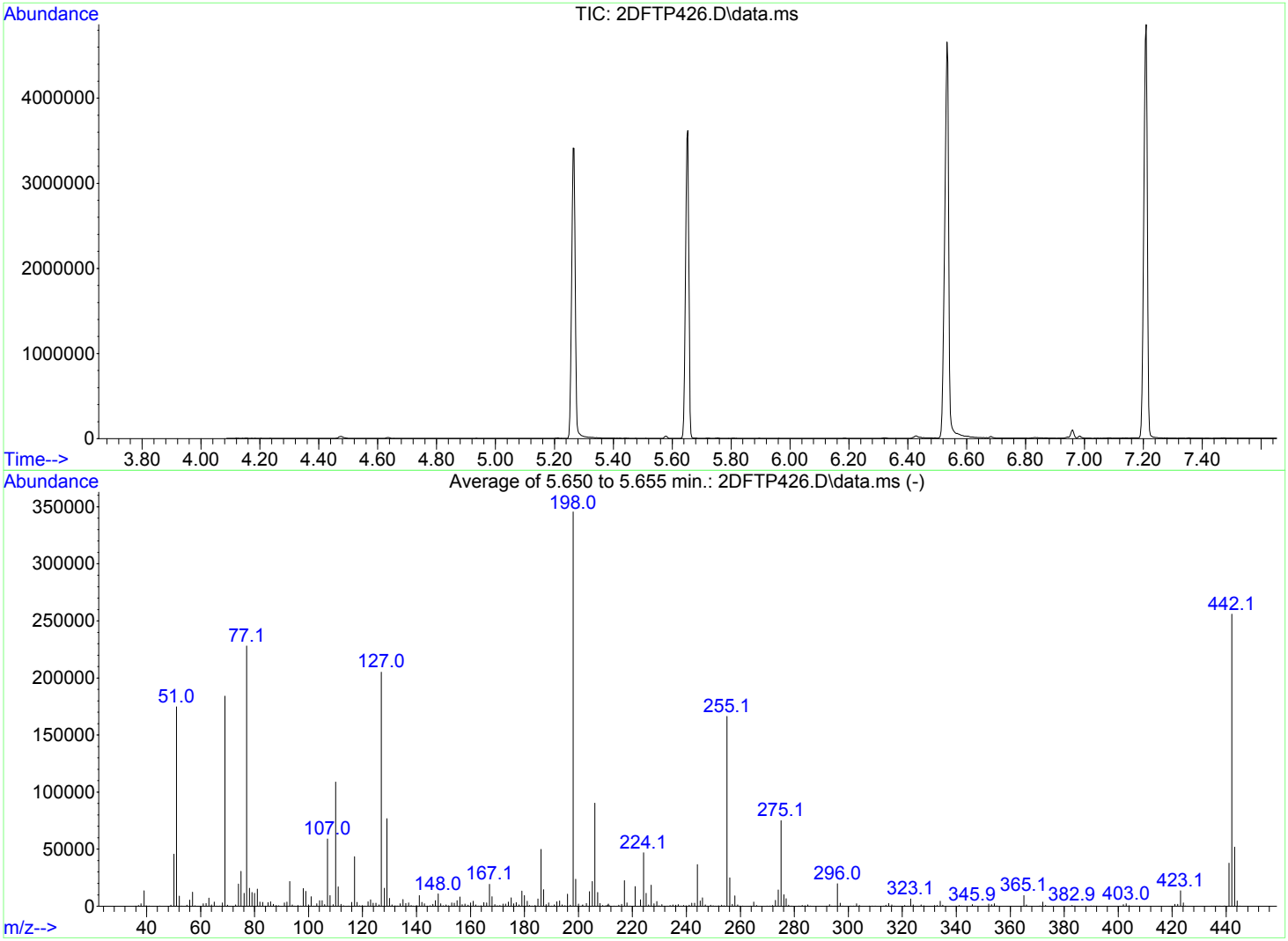
AutoFind: Scans 550, 551, 552; Background Corrected with Scan 541

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	53.3	190485	PASS
68	69	0.00	2	1.0	1933	PASS
70	69	0.00	2	0.5	1074	PASS
127	198	10	80	61.4	219307	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	357461	PASS
199	198	5	9	7.0	25112	PASS
275	198	10	60	21.3	76301	PASS
365	198	1	100	2.3	8309	PASS
441	442	0.01	24	15.3	37251	PASS
442	198	50	100	68.0	243115	PASS
443	442	15	24	19.8	48133	PASS

DFTPP

Data File : C:\INSTARCH\DATA\2S112119\2DFTP426.D Vial: 1
Acq On : 22 Nov 2019 10:18 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



AutoFind: Scans 551, 552, 553; Background Corrected with Scan 541

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.6	174810	PASS
68	69	0.00	2	1.6	2971	PASS
70	69	0.00	2	0.5	924	PASS
127	198	10	80	59.4	205141	PASS
197	198	0.00	2	0.3	965	PASS
198	198	50	100	100.0	345536	PASS
199	198	5	9	6.9	23765	PASS
275	198	10	60	21.7	74960	PASS
365	198	1	100	2.7	9454	PASS
441	442	0.01	24	14.8	37792	PASS
442	198	50	100	74.0	255829	PASS
443	442	15	24	20.2	51789	PASS

Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2DIOXN07.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S112119\2DFTP424.D
Injection Date : 21 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 17:15 Total files within period : 19
Sample Directory : C:\INSTARCH\DATA\2S112119\

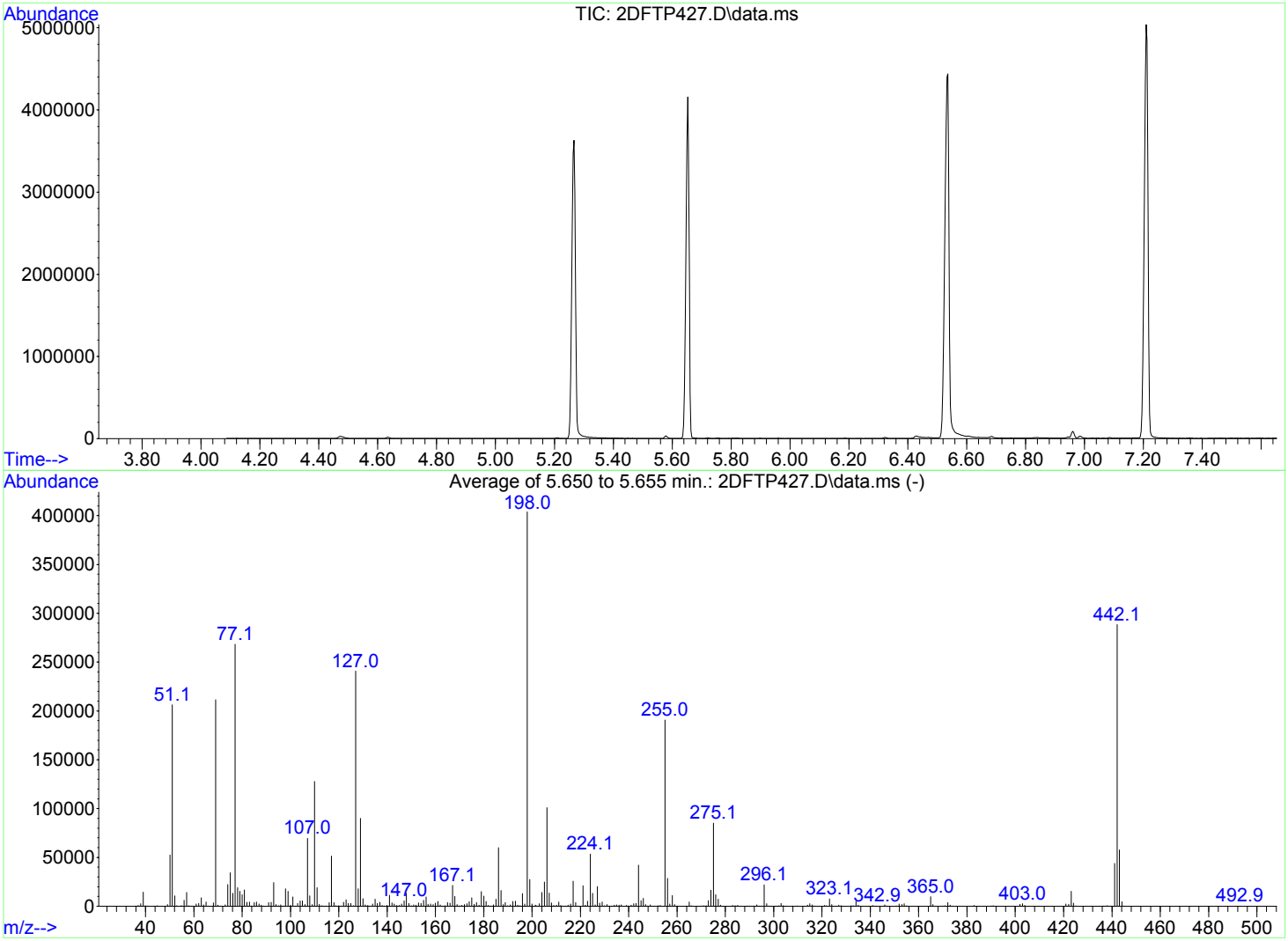
Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
2IB01	1.00	1.00	1.00	Instrument blank 1000ul+10ul IS SVMS8553	21 Nov 2019	17:31
2IB02	1.00	1.00	1.00	Instrument blank 1000ul+10ul IS SVMS8553	21 Nov 2019	18:05
2ICAL1	1.00	1.00	1.00	ICAL 0.1 ug/ml SVMS8543 1000ul+10ul IS SVMS8553	21 Nov 2019	18:25
2ICAL2	1.00	1.00	1.00	ICAL 0.2 ug/ml SVMS8544 1000ul+10ul IS SVMS8553	21 Nov 2019	18:45
2ICAL3	1.00	1.00	1.00	ICAL 0.5 ug/ml SVMS8545 1000ul+10ul IS SVMS8553	21 Nov 2019	19:05
2ICAL4	1.00	1.00	1.00	ICAL 1.0 ug/ml SVMS8546 1000ul+10ul IS SVMS8553	21 Nov 2019	19:25
2ICAL5	1.00	1.00	1.00	ICAL 1.5 ug/ml SVMS8547 1000ul+10ul IS SVMS8553	21 Nov 2019	19:45
2ICAL6	1.00	1.00	1.00	ICAL 2.0 ug/ml SVMS8548 1000ul+10ul IS SVMS8553	21 Nov 2019	20:06
2ICAL7	1.00	1.00	1.00	ICAL 2.5 ug/ml SVMS8549 1000ul+10ul IS SVMS8553	21 Nov 2019	20:26
2ICV1	1.00	1.00	1.00	ICV 1.0 ug/ml SVMS8550 1000ul+10ul IS SVMS8553	21 Nov 2019	20:46
2ICV2	1.00	1.00	1.00	ICV 2.0 ug/ml SVMS8551 1000ul+10ul IS SVMS8553	21 Nov 2019	21:06
2ICV2	1.00	1.00	1.00	ICV 2.0 ug/ml SVMS8551 1000ul+10ul IS SVMS8553	21 Nov 2019	21:06
2ICV2	1.00	1.00	1.00	ICV 2.0 ug/ml SVMS8551 1000ul+10ul IS SVMS8553	21 Nov 2019	21:06
2IB03	1.00	1.00	1.00	Instrument blank 1000ul+10ul IS SVMS8553	22 Nov 2019	09:46
2DFTP425	1.00	1.00	1.00	DFTPP TUNE SVMS8353 SVMS2, 50ng DFTPP	22 Nov 2019	10:02
2DFTP426	1.00	1.00	1.00	DFTPP TUNE SVMS8353 SVMS2, 50ng DFTPP	22 Nov 2019	10:18
2ICAL2R	1.00	1.00	1.00	ICAL 0.2 ug/ml SVMS8544 1000ul+10ul IS SVMS8553	22 Nov 2019	10:33
2ICAL3R	1.00	1.00	1.00	ICAL 0.5 ug/ml SVMS8545 1000ul+10ul IS SVMS8553	22 Nov 2019	11:09
2ICV1R	1.00	1.00	1.00	ICV 1.0 ug/ml SVMS8550 1000ul+10ul IS SVMS8553	22 Nov 2019	11:44

DFTPP

Data File : C:\INSTARCH\DATA\2S112219\2DFTP427.D Vial: 1
Acq On : 22 Nov 2019 12:17 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



AutoFind: Scans 551, 552, 553; Background Corrected with Scan 542

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	51.1	206379	PASS
68	69	0.00	2	1.7	3615	PASS
70	69	0.00	2	0.6	1256	PASS
127	198	10	80	59.6	240792	PASS
197	198	0.00	2	0.6	2328	PASS
198	198	50	100	100.0	403840	PASS
199	198	5	9	6.8	27437	PASS
275	198	10	60	21.1	85117	PASS
365	198	1	100	2.4	9713	PASS
441	442	0.01	24	15.2	43784	PASS
442	198	50	100	71.4	288405	PASS
443	442	15	24	20.0	57696	PASS

Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2DIOXN07.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S112219\2DFTP427.D
Injection Date : 22 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 12:17 Total files within period : 45
Sample Directory : C:\INSTARCH\DATA\2S112219\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
2CCV575	1.00	1.00	1.00	ICAL 1.0 ug/ml SVMS8552 1000ul+10ul IS SVMS8553	22 Nov 2019	12:32
2MBW01	1.00	1.00	1.00	166715,MBW, 357990,500ul+5ul IS SVMS8	22 Nov 2019	12:52
2LCSW01	1.00	1.00	1.00	166715,LCSW, 357991,500ul+5ul IS SVMS8	22 Nov 2019	13:12
356214	1.00	1.00	1.00	166715,356214, 500ul+5ul IS SVMS8553	22 Nov 2019	13:32
356215	1.00	1.00	1.00	166715,356215, 500ul+5ul IS SVMS8553	22 Nov 2019	13:52
356217	1.00	1.00	1.00	166715,356217, 500ul+5ul IS SVMS8553	22 Nov 2019	14:12
356222	1.00	1.00	1.00	166715,356222, 500ul+5ul IS SVMS8553	22 Nov 2019	14:32
356223	1.00	1.00	1.00	166715,356223, 500ul+5ul IS SVMS8553	22 Nov 2019	14:52
356226	1.00	1.00	1.00	166715,356226, 500ul+5ul IS SVMS8553	22 Nov 2019	15:12
356227	1.00	1.00	1.00	166715,356227, 500ul+5ul IS SVMS8553	22 Nov 2019	15:33
356228	1.00	1.00	1.00	166715,356228, 500ul+5ul IS SVMS8553	22 Nov 2019	15:53
356227MS	1.00	1.00	1.00	166715,MSW356227, 357995,500ul+5ul IS SVMS8	22 Nov 2019	16:13
356227SD	1.00	1.00	1.00	166715,MSDW356227, 357996,500ul+5ul IS SVMS8	22 Nov 2019	16:33
2DFTP428	1.00	1.00	1.00	DFTPP TUNE SVMS8353 SVMS2, 50ng DFTPP	22 Nov 2019	16:49
2CCV576	1.00	1.00	1.00	ICAL 1.0 ug/ml SVMS8552 1000ul+10ul IS SVMS8553	22 Nov 2019	17:05
2MBW02	1.00	1.00	1.00	166941,MBW, 359225,500ul+5ul IS SVMS8	22 Nov 2019	17:32
2LCSW02	1.00	1.00	1.00	166941,LCSW, 359226,500ul+5ul IS SVMS8	22 Nov 2019	17:52
2LCSDW02	1.00	1.00	1.00	166941,LCSDW, 359227,500ul+5ul IS SVMS8	22 Nov 2019	18:12
358578	1.00	1.00	1.00	166941,358578, 500ul+5ul IS SVMS8553	22 Nov 2019	18:32
358579	1.00	1.00	1.00	166941,358579, 500ul+5ul IS SVMS8553	22 Nov 2019	18:52
2MBW03	1.00	1.00	1.00	166939,MBW, 359220,500ul+5ul IS SVMS8	22 Nov 2019	19:12
2LCSW04	1.00	1.00	1.00	166939,LCSW, 359221,500ul+5ul IS SVMS8	22 Nov 2019	19:32

Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2DIOXN07.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S112219\2DFTP427.D
Injection Date : 22 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 12:17 Total files within period : 45
Sample Directory : C:\INSTARCH\DATA\2S112219\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
358555	1.00	1.00	1.00	166939,358555 500ul+5ul IS SVMS8553	22 Nov 2019	19:53
358557	1.00	1.00	1.00	166939,358557 500ul+5ul IS SVMS8553	22 Nov 2019	20:13
358558	1.00	1.00	1.00	166939,358558 500ul+5ul IS SVMS8553	22 Nov 2019	20:33
358559	1.00	1.00	1.00	166939,358559 500ul+5ul IS SVMS8553	22 Nov 2019	20:53
358560	1.00	1.00	1.00	166939,358560 500ul+5ul IS SVMS8553	22 Nov 2019	21:13
358561	1.00	1.00	1.00	166939,358561 500ul+5ul IS SVMS8553	22 Nov 2019	21:33
358562	1.00	1.00	1.00	166939,358562 500ul+5ul IS SVMS8553	22 Nov 2019	21:54
358564	1.00	1.00	1.00	166939,358564 500ul+5ul IS SVMS8553	22 Nov 2019	22:14
358565	1.00	1.00	1.00	166939,358565 500ul+5ul IS SVMS8553	22 Nov 2019	22:34
358566	1.00	1.00	1.00	166939,358566 500ul+5ul IS SVMS8553	22 Nov 2019	22:54
358567	1.00	1.00	1.00	166939,358567 500ul+5ul IS SVMS8553	22 Nov 2019	23:14
358568	1.00	1.00	1.00	166939,358568 500ul+5ul IS SVMS8553	22 Nov 2019	23:34
358569	1.00	1.00	1.00	166939,358569 500ul+5ul IS SVMS8553	22 Nov 2019	23:54
358570	1.00	1.00	1.00	166939,358570 500ul+5ul IS SVMS8553	23 Nov 2019	00:14
358571	1.00	1.00	1.00	166939,358571 500ul+5ul IS SVMS8553	23 Nov 2019	00:35
358572	1.00	1.00	1.00	166939,358572 500ul+5ul IS SVMS8553	23 Nov 2019	00:55
358574	1.00	1.00	1.00	166939,358574 500ul+5ul IS SVMS8553	23 Nov 2019	01:15
358575	1.00	1.00	1.00	166939,358575 500ul+5ul IS SVMS8553	23 Nov 2019	01:35
358576	1.00	1.00	1.00	166939,358576 500ul+5ul IS SVMS8553	23 Nov 2019	01:56
358577	1.00	1.00	1.00	166939,358577 500ul+5ul IS SVMS8553	23 Nov 2019	02:16
358572MS	1.00	1.00	1.00	166939,MSW358572 359223,500ul+5ul IS SVMS8	23 Nov 2019	02:36
358572SD	1.00	1.00	1.00	166939,MSDW358573 359224,500ul+5ul IS SVMS8	23 Nov 2019	02:56

Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2DIOXN07.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S112219\2DFTP427.D
Injection Date : 22 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 12:17 Total files within period : 45
Sample Directory : C:\INSTARCH\DATA\2S112219\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
2CCV577	1.00	1.00	1.00	ICAL 1.0 ug/ml SVMS8552 1000ul+10ul IS SVMS8553	23 Nov 2019	03:17

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 21 Nov 2019
Instrument ID : SVMS2 Time Analyzed : 19:25
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2		IS3	
	Area #	RT #	Area #	RT #	Area #	RT #
ICAL MID PT	27022	4.85	0	0.00	0	0.00
UPPER LIMIT	54044	5.35	0	0.00	0	0.00
LOWER LIMIT	13511	4.35	0	0.00	0	0.00
File ID Sample						
2CCV575 ICAL 1.0	26662	4.85	0	0.00	0	0.00
2CCV576 ICAL 1.0	27842	4.85	0	0.00	0	0.00
2LCSW01 166715,LC	26495	4.85	0	0.00	0	0.00
2MBW01 166715,MB	25920	4.85	0	0.00	0	0.00
356214 166715,35	25306	4.85	0	0.00	0	0.00
356215 166715,35	25240	4.85	0	0.00	0	0.00
356217 166715,35	25942	4.85	0	0.00	0	0.00
356222 166715,35	26586	4.85	0	0.00	0	0.00
356223 166715,35	26529	4.85	0	0.00	0	0.00
356226 166715,35	27002	4.85	0	0.00	0	0.00
356227 166715,35	26531	4.85	0	0.00	0	0.00
356227MS 166715,MS	28336	4.85	0	0.00	0	0.00
356227SD 166715,MS	27742	4.85	0	0.00	0	0.00
356228 166715,35	26962	4.85	0	0.00	0	0.00

IS1 (DCB) = 14Diclbenzd4
IS2 =
IS3 =

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

SEMI - VOLATILE ORGANIC ANALYSIS
SAMPLE DATA
DOCUMENTS

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\356218.D Vial: 34
Acq On : 21 Nov 2019 13:19 Operator: RPN
Sample : 166847,356218, Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 12:51:46 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

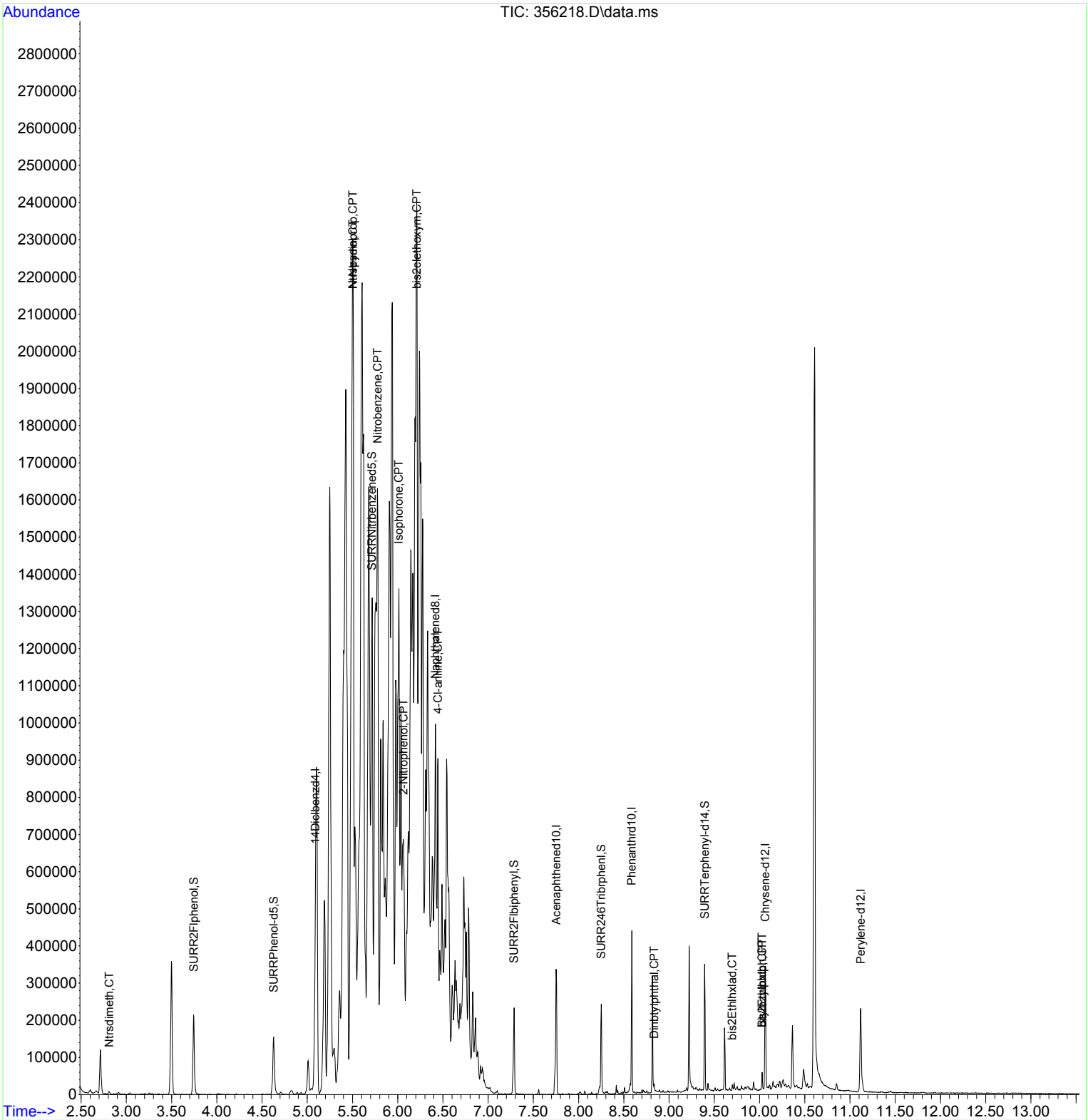
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.090	152	36382	20.00	ug/mL	-0.01
21) Naphthalened8	6.417	136	88120	20.00	ug/mL	0.00
39) Acenaphthened10	7.752	164	65865	20.00	ug/mL	0.00
63) Phenanthrd10	8.587	188	98206	20.00	ug/mL	0.00
75) Chrysene-d12	10.062	240	72475	20.00	ug/mL	0.00
86) Perylene-d12	11.119	264	82529	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.746	112	66640	64.26	%REC	0.00
Spiked Amount 100.000			Recovery = 64.26%			
7) SURRPhenol-d5	4.629	99	71274	53.45	%REC	-0.02
Spiked Amount 100.000			Recovery = 53.45%			
22) SURRNitrbenzened5	5.715	82	41642	108.00	%REC	0.00
Spiked Amount 100.000			Recovery = 108.00%			
44) SURR2Flbiphenyl	7.286	172	67307	74.90	%REC	0.00
Spiked Amount 100.000			Recovery = 74.90%			
62) SURR246Tribrphenl	8.249	330	14731	94.52	%REC	0.00
Spiked Amount 100.000			Recovery = 94.52%			
78) SURRTerphenyl-d14	9.394	244	63516	94.79	%REC	0.00
Spiked Amount 100.000			Recovery = 94.79%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.811	74	678	0.5936	ug/mL#	1
16) Ntrspyrrol	5.504	100	6203	4.8748	ug/mL#	1
19) N-Ntrsdinprop	5.504	70	103563	48.7891	ug/mL	72
23) Nitrobenzene	5.777	77	2770	1.3688	ug/mL#	1
24) Isophorone	6.013	82	5550	1.5566	ug/mL	71
25) 2-Nitrophenol	6.061	139	1432	1.6593	ug/mL#	54
27) bis2clethoxym	6.212	93	1080	0.5295	ug/mL#	1
32) 4-Cl-aniline	6.445	127	5524	3.4521	ug/mL#	60
73) Dinbtylphthal	8.835	149	3359	0.5036	ug/mL	97
79) Btylbzylphth	10.028	149	8290	2.2048	ug/mL	90
80) bis2Ethlhxlad	9.698	129	2416	0.9971	ug/mL#	79
84) bis2Ethlhxlph	10.028	149	8016	2.1582	ug/mL	95

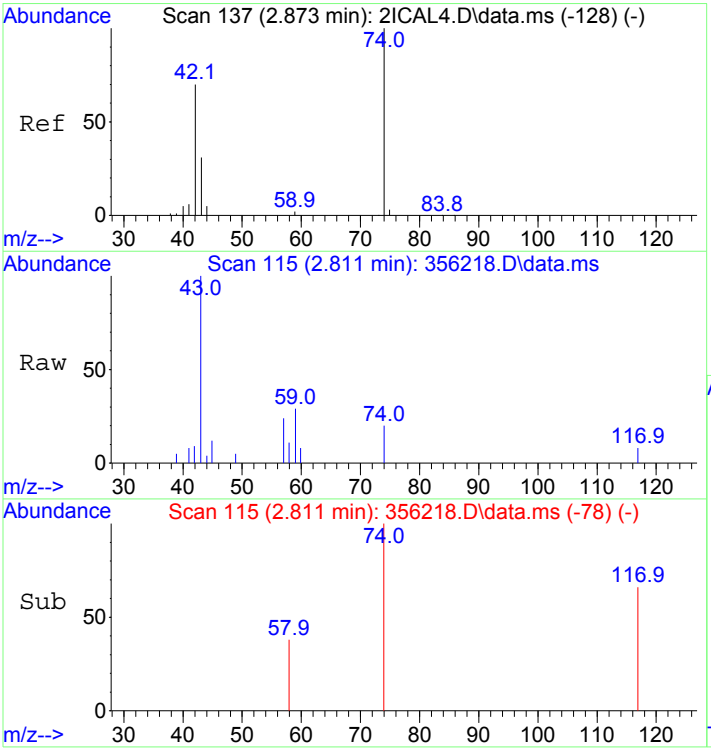
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\356218.D Vial: 34
Acq On : 21 Nov 2019 13:19 Operator: RPN
Sample : 166847,356218, Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 12:51:46 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

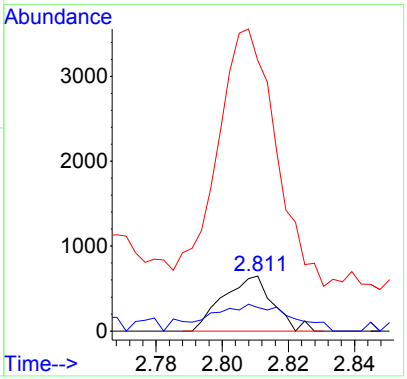


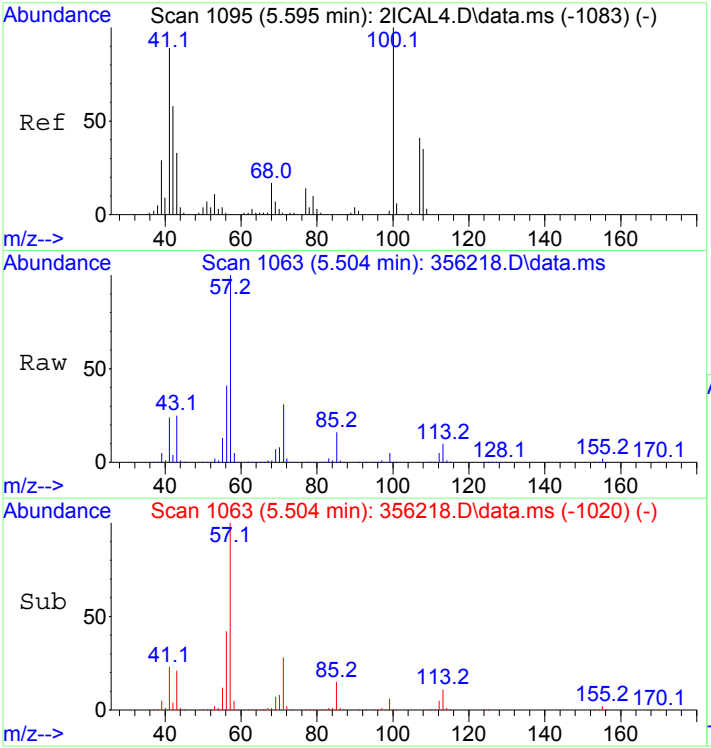


#2
Ntrsdimeth
Concen: 0.59 ug/mL
RT: 2.811 min Scan# 115
Delta R.T. 0.006 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion: 74 Resp: 678

Ion	Ratio	Lower	Upper
74	100		
42	26.6	52.4	112.4#
43	411.4	7.2	67.2#

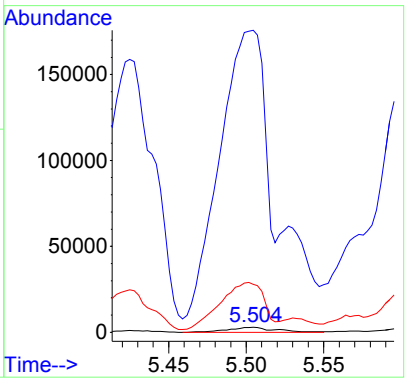


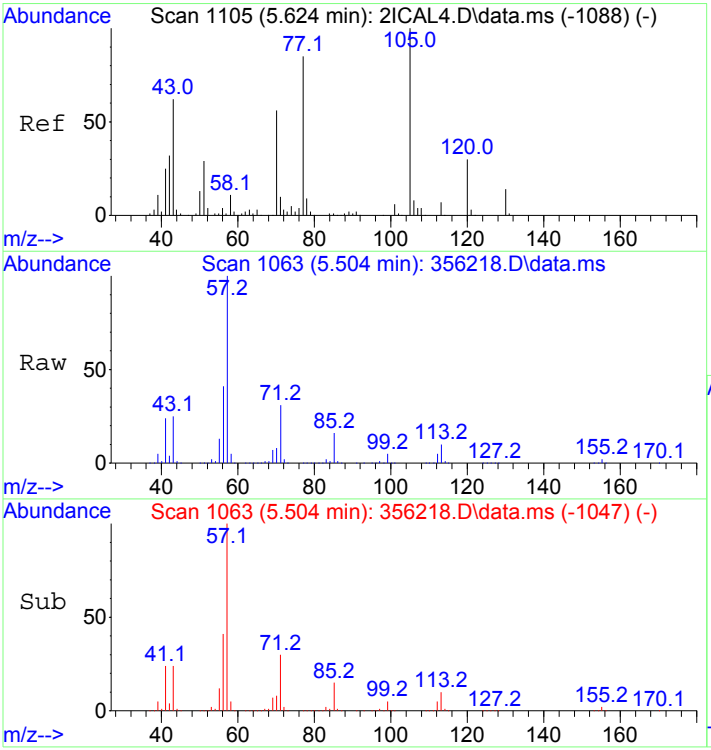


#16
Ntrspyrrol
Concen: 4.87 ug/mL
RT: 5.504 min Scan# 1063
Delta R.T. -0.029 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion:100 Resp: 6203

Ion	Ratio	Lower	Upper
100	100		
41	5635.8	66.8	126.8#
42	879.9	37.0	97.0#

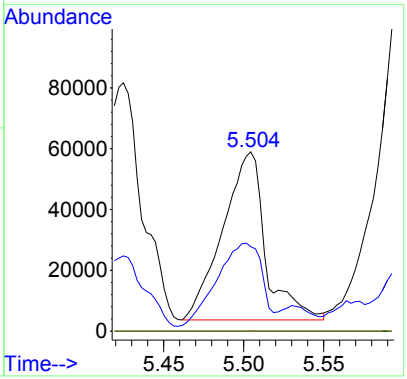


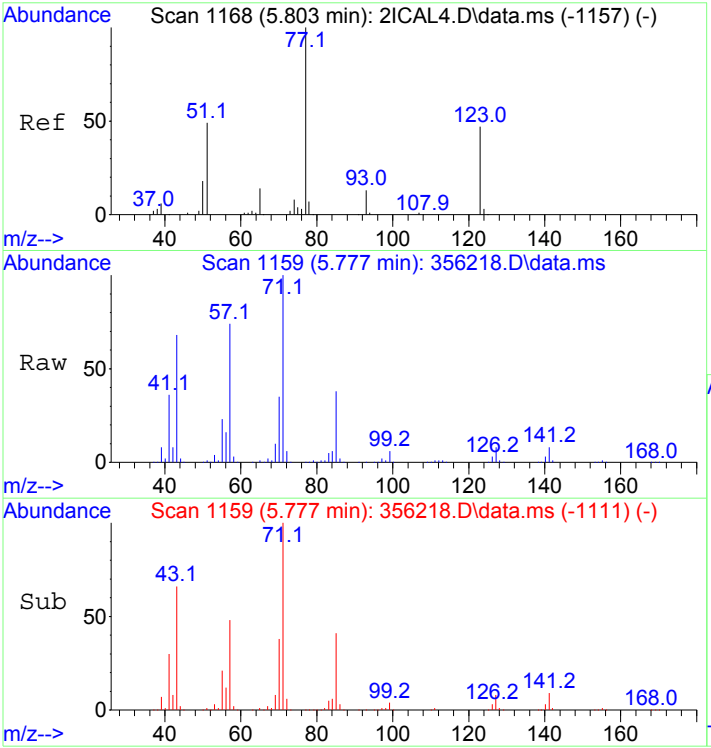


#19
N-Ntrsdinprop
Concen: 48.79 ug/mL
RT: 5.504 min Scan# 1063
Delta R.T. -0.054 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion: 70 Resp: 103563

Ion	Ratio	Lower	Upper
70	100		
42	46.9	33.6	93.6
101	0.2	0.0	39.9
130	0.0	0.0	52.6

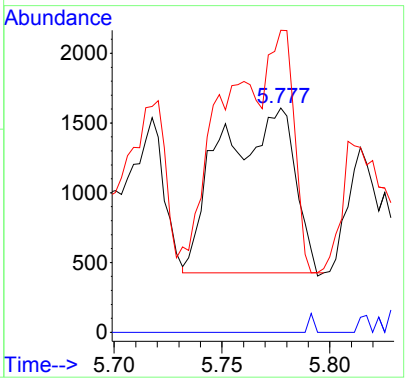


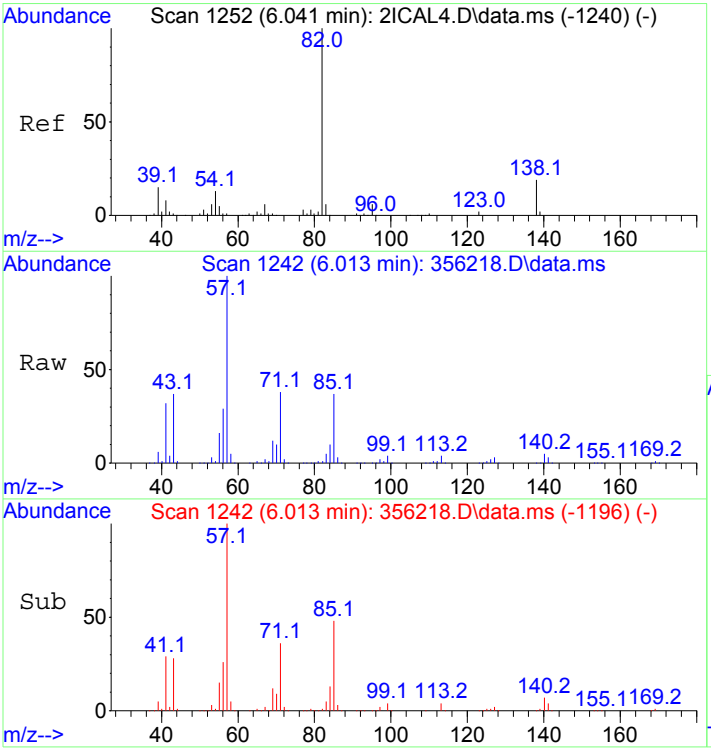


#23
Nitrobenzene
Concen: 1.37 ug/mL
RT: 5.777 min Scan# 1159
Delta R.T. 0.037 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion: 77 Resp: 2770

Ion	Ratio	Lower	Upper
77	100		
123	0.0	11.8	71.8#
65	144.5	0.0	43.1#

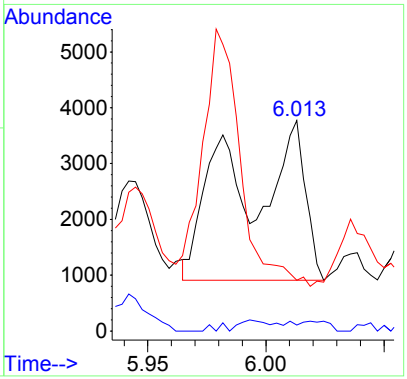


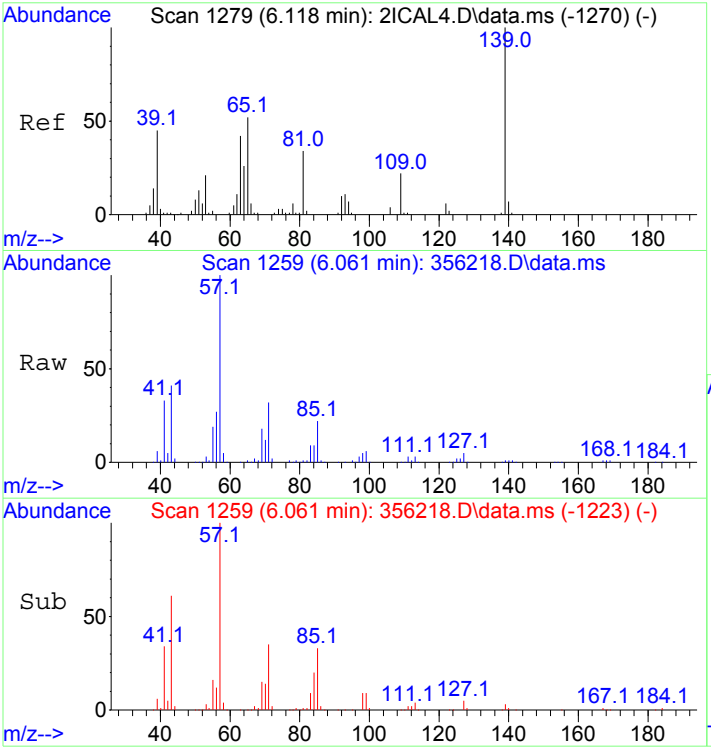


#24
Isophorone
Concen: 1.56 ug/mL
RT: 6.013 min Scan# 1242
Delta R.T. 0.031 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion: 82 Resp: 5550

Ion	Ratio	Lower	Upper
82	100		
138	3.7	0.0	48.6
95	1.4	0.0	37.3

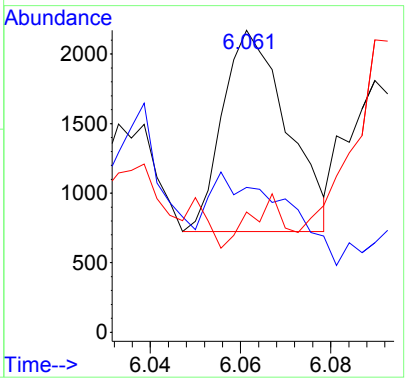


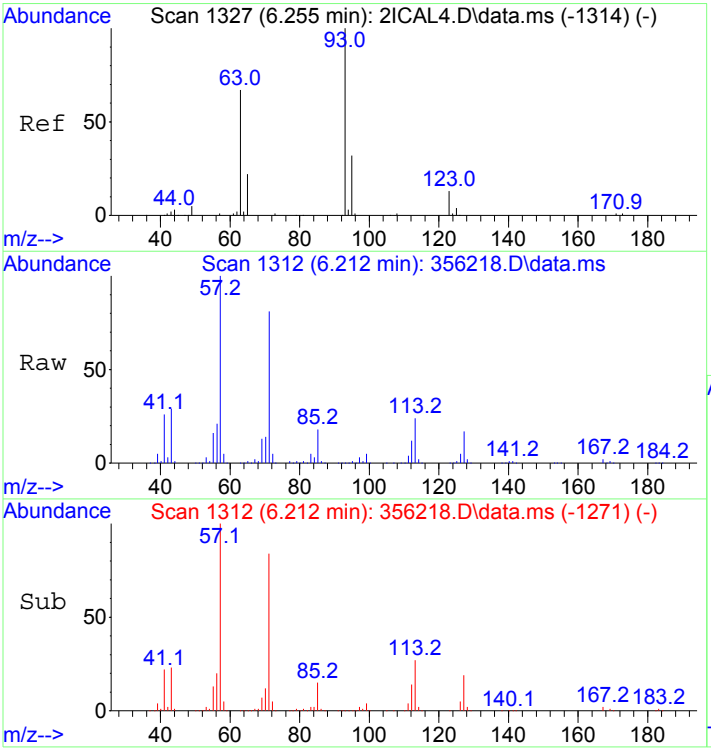


#25
2-Nitrophenol
Concen: 1.66 ug/mL
RT: 6.061 min Scan# 1259
Delta R.T. 0.003 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion:139 Resp: 1432

Ion	Ratio	Lower	Upper
139	100		
65	24.3	28.8	88.8#
109	4.3	0.0	59.6

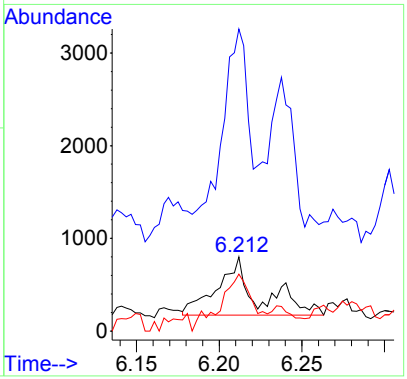


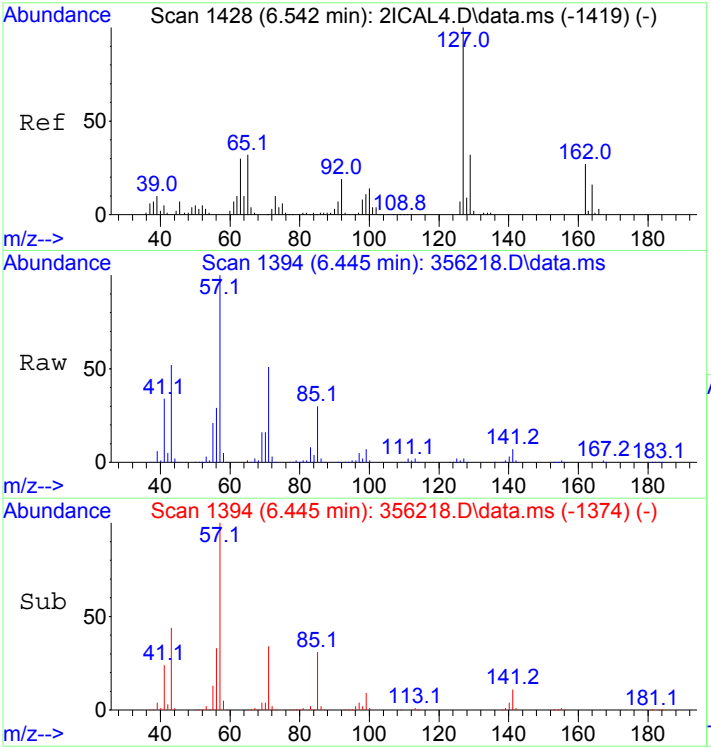


#27
bis2clethoxym
Concen: 0.53 ug/mL
RT: 6.212 min Scan# 1312
Delta R.T. 0.017 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion: 93 Resp: 1080

Ion	Ratio	Lower	Upper
93	100		
95	332.2	3.0	63.0#
123	78.3	0.0	44.8#

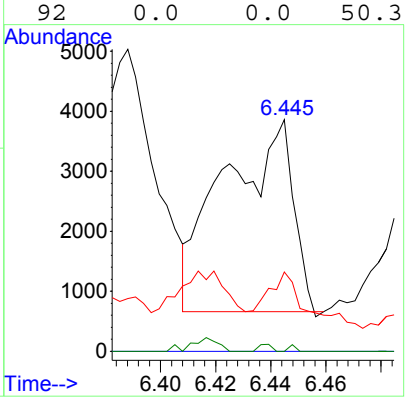


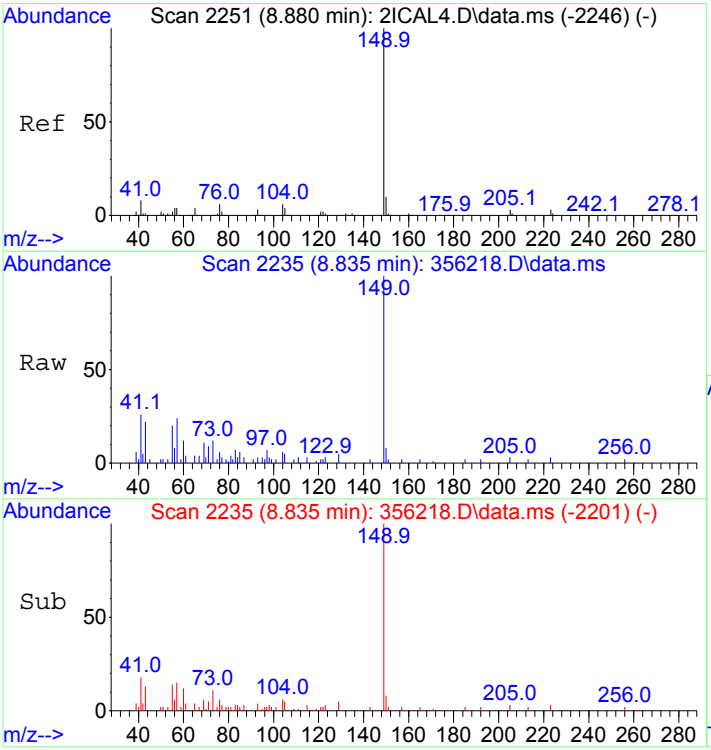


#32
4-Cl-aniline
Concen: 3.45 ug/mL
RT: 6.445 min Scan# 1394
Delta R.T. -0.042 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion:127 Resp: 5524

Ion	Ratio	Lower	Upper
127	100		
129	0.0	1.4	61.4#
65	22.5	5.2	65.2
92	0.0	0.0	50.3

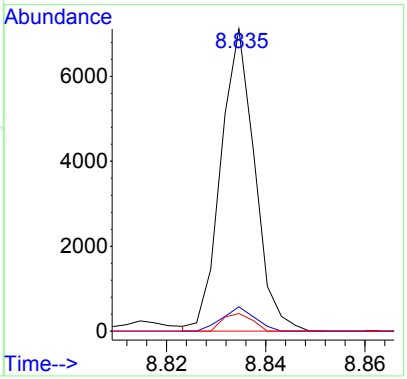


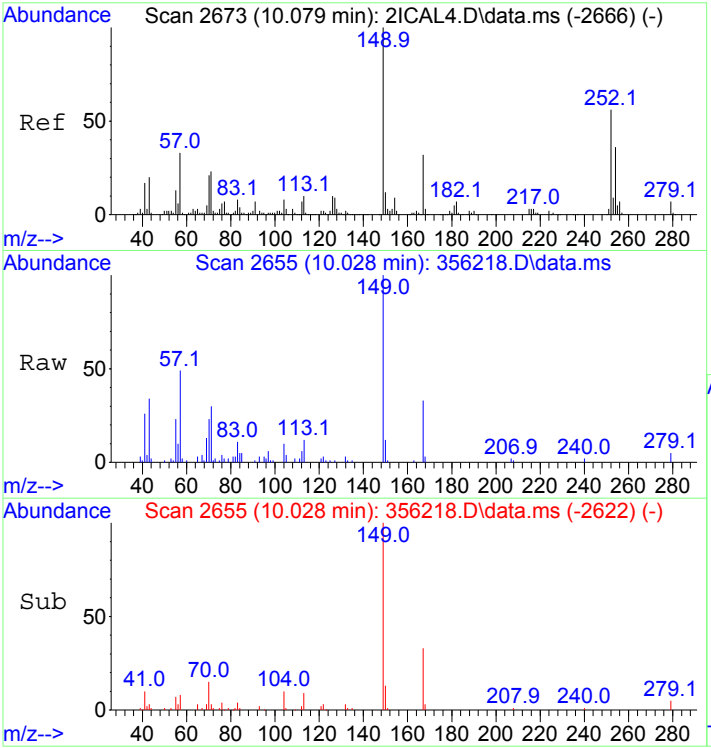


#73
Dinbtylphthal
Concen: 0.50 ug/mL
RT: 8.835 min Scan# 2235
Delta R.T. -0.002 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion:149 Resp: 3359

Ion	Ratio	Lower	Upper
149	100		
150	8.0	0.0	39.6
104	5.8	0.0	36.1

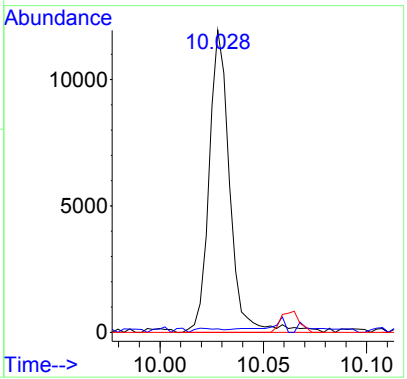


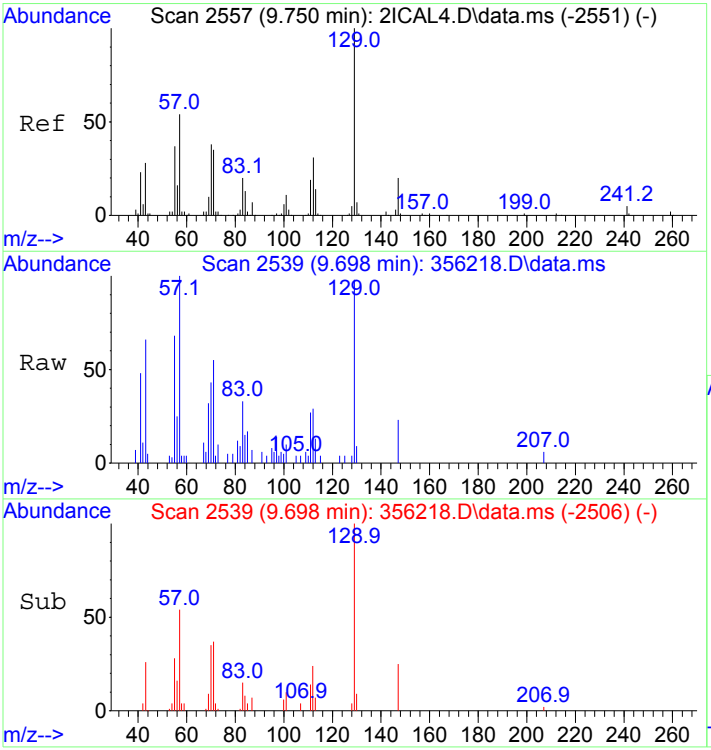


#79
Btylbzylphth
Concen: 2.20 ug/mL
RT: 10.028 min Scan# 2655
Delta R.T. -0.006 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion:149 Resp: 8290

Ion	Ratio	Lower	Upper
149	100		
91	0.0	0.0	33.2
206	0.0	0.0	30.0

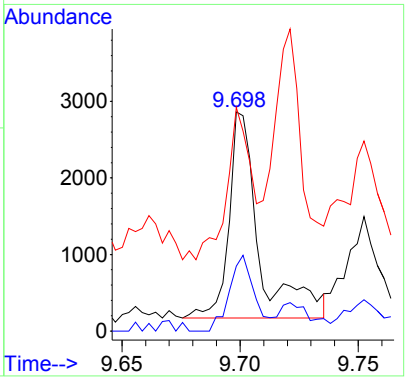


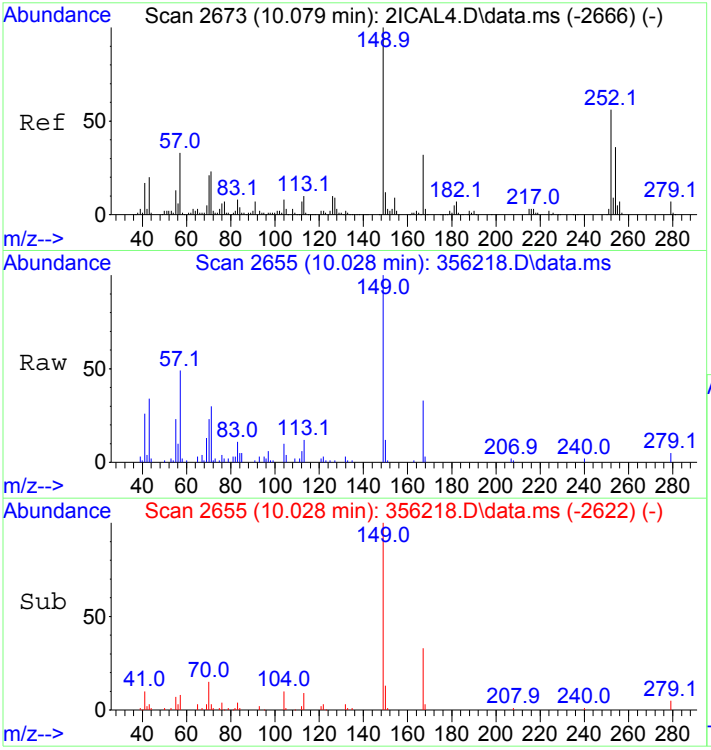


#80
bis2Ethlhxlad
Concen: 1.00 ug/mL
RT: 9.698 min Scan# 2539
Delta R.T. -0.006 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion:129 Resp: 2416

Ion	Ratio	Lower	Upper
129	100		
112	0.0	1.3	61.3#
57	62.3	30.6	90.6

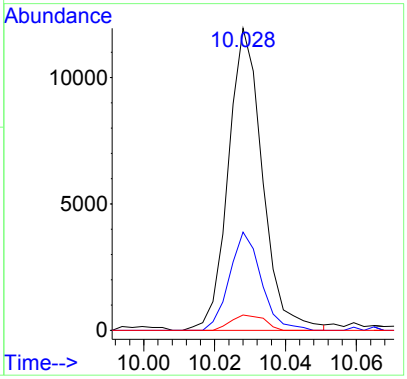




#84
bis2Ethlhxlph
Concen: 2.16 ug/mL
RT: 10.028 min Scan# 2655
Delta R.T. -0.006 min
Lab File: 356218.D
Acq: 21 Nov 2019 13:19

Tgt Ion:149 Resp: 8016

Ion	Ratio	Lower	Upper
149	100		
167	32.5	0.0	59.3
279	5.1	0.0	36.0



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356214.D Vial: 5
Acq On : 22 Nov 2019 13:32 Operator: RPN
Sample : 166715,356214, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:31 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

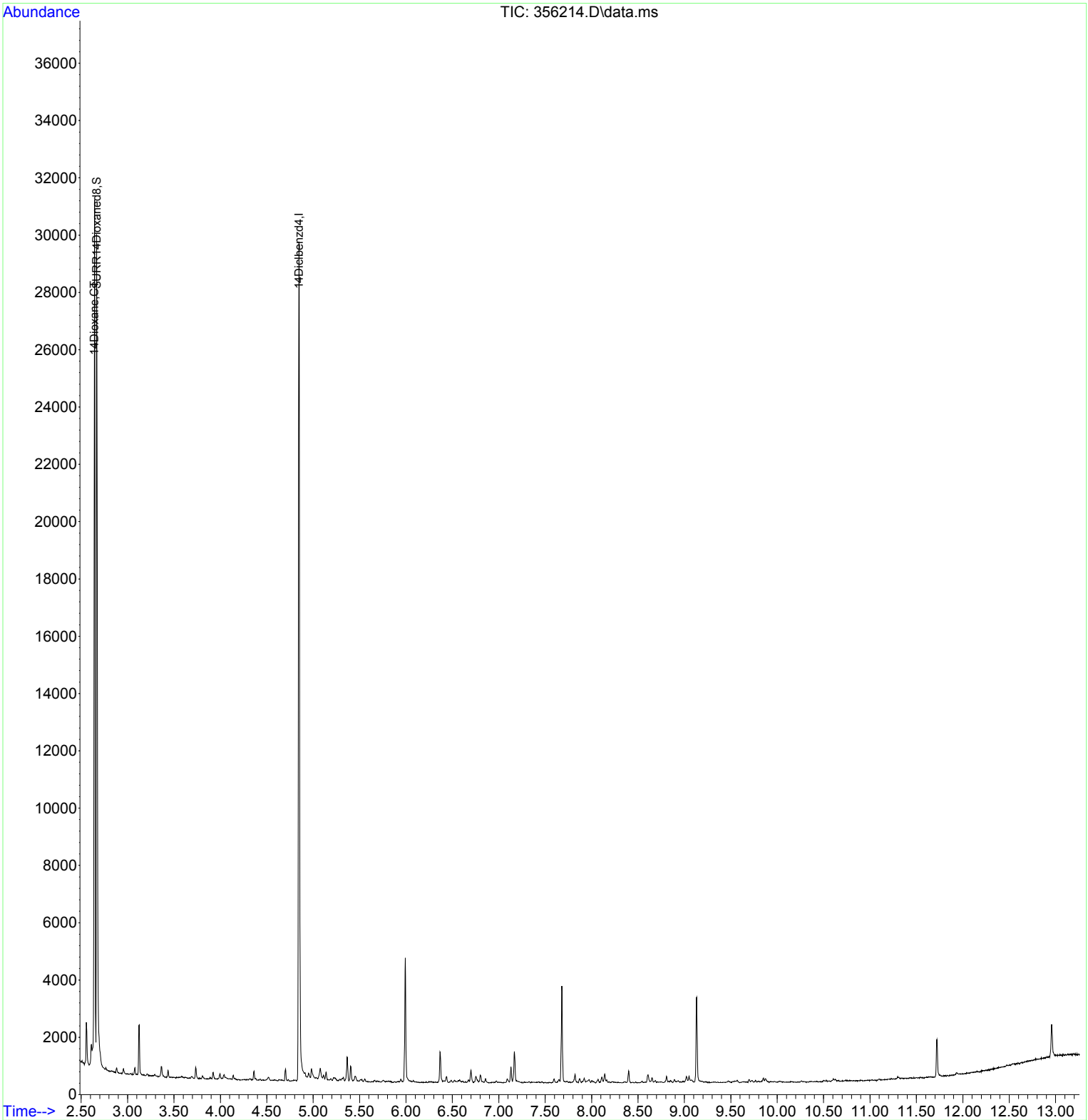
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	25306	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.667	64	9703	73.58	%REC	-0.01
Spiked Amount 100.000			Recovery = 73.58%			
Target Compounds						Qvalue
3) 14Dioxane	2.641	58	64	0.0050	ug/mL#	1

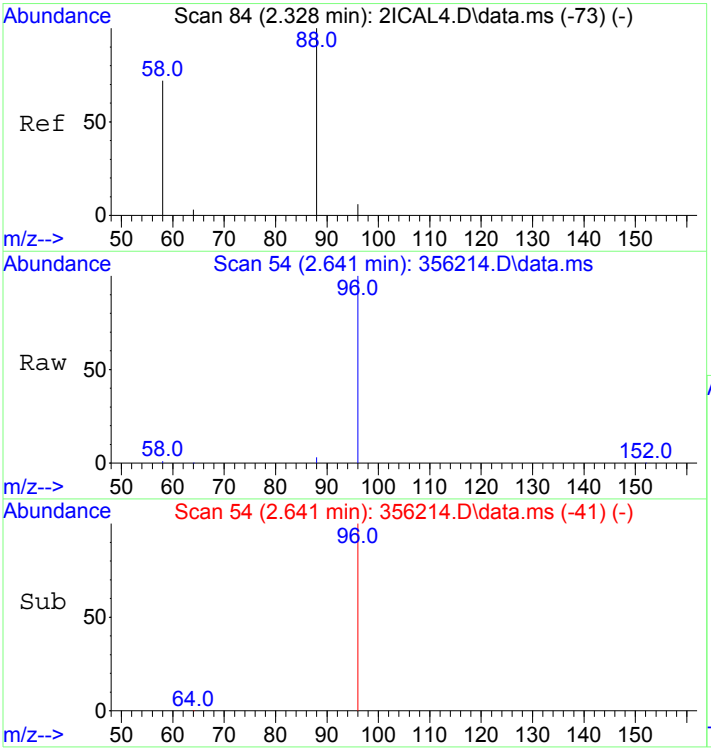
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356214.D Vial: 5
Acq On : 22 Nov 2019 13:32 Operator: RPN
Sample : 166715,356214, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:31 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

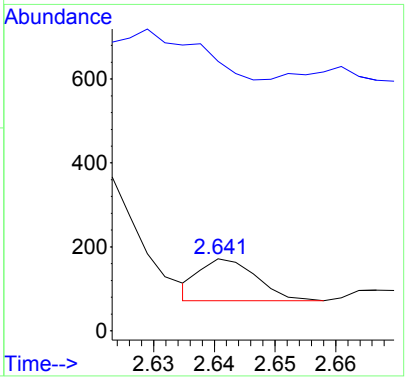




#3
14Dioxane
Concen: 0.00 ug/mL
RT: 2.641 min Scan# 54
Delta R.T. -0.061 min
Lab File: 356214.D
Acq: 22 Nov 2019 13:32

Tgt Ion: 58 Resp: 64

Ion	Ratio	Lower	Upper
58	100		
88	300.0	100.1	160.1#



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356215.D Vial: 6
Acq On : 22 Nov 2019 13:52 Operator: RPN
Sample : 166715,356215, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:33 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

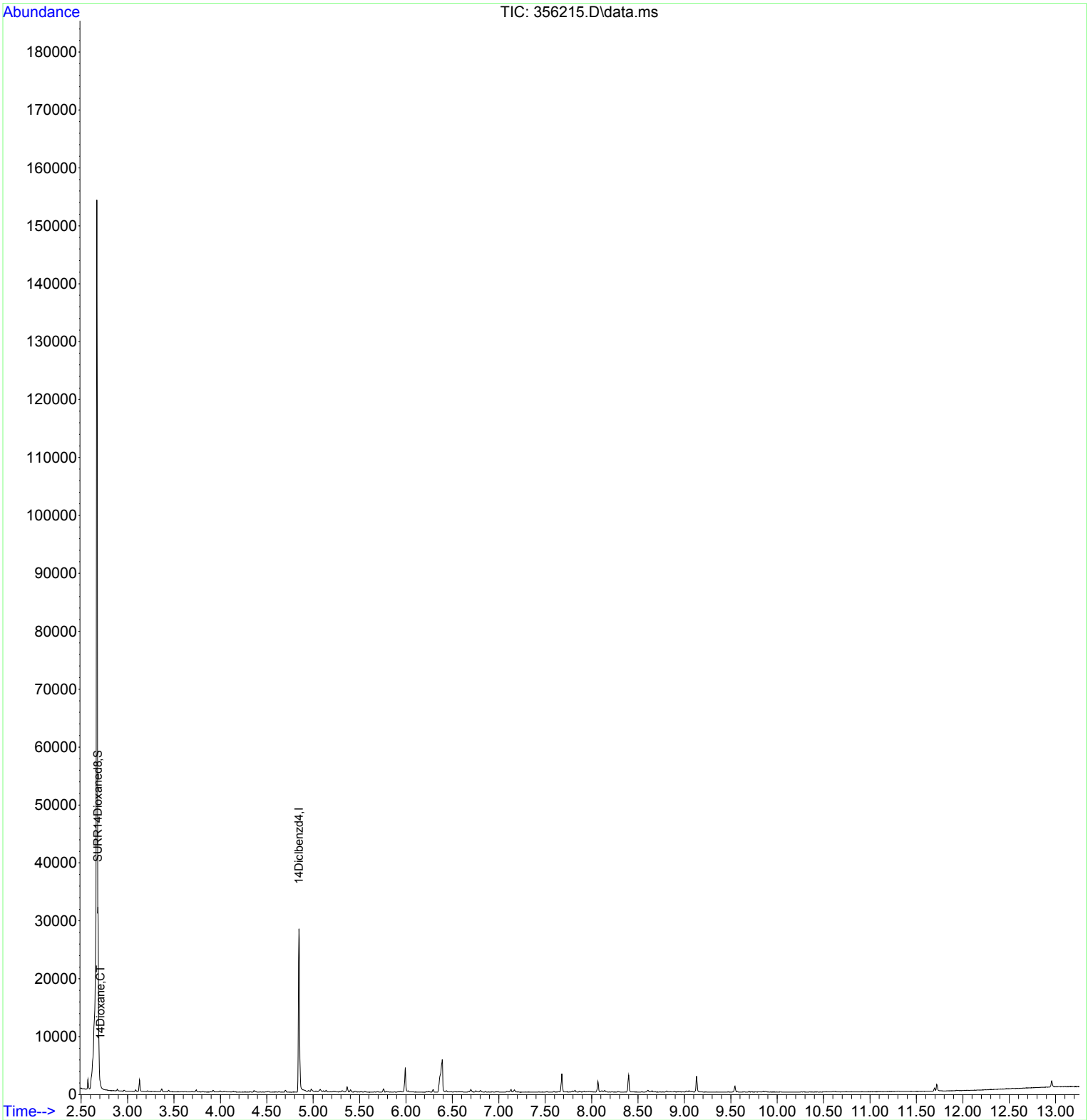
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	25240	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.681	64	9152	69.59	%REC	0.00
Spiked Amount 100.000			Recovery = 69.59%			
Target Compounds						Qvalue
3) 14Dioxane	2.707	58	57	0.0045	ug/mL#	1

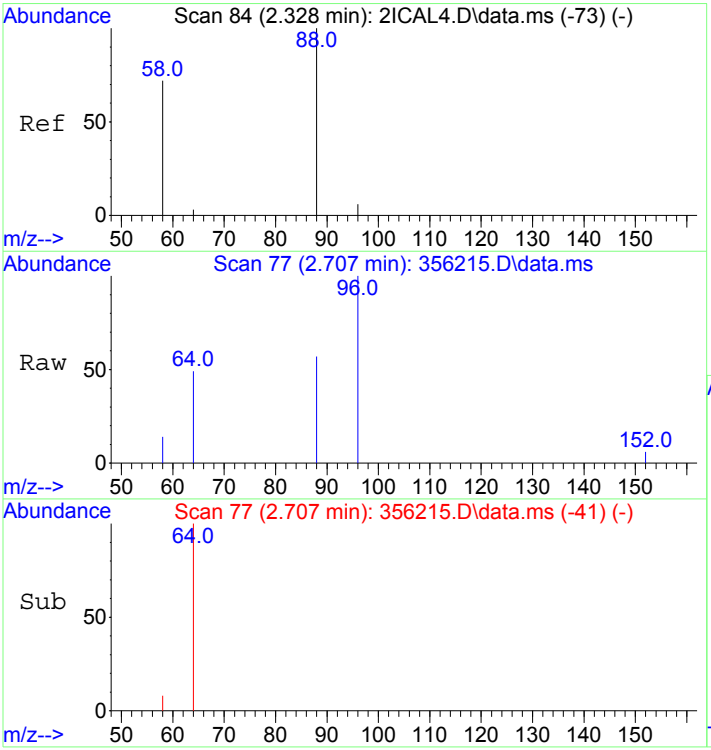
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356215.D Vial: 6
Acq On : 22 Nov 2019 13:52 Operator: RPN
Sample : 166715,356215, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:33 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

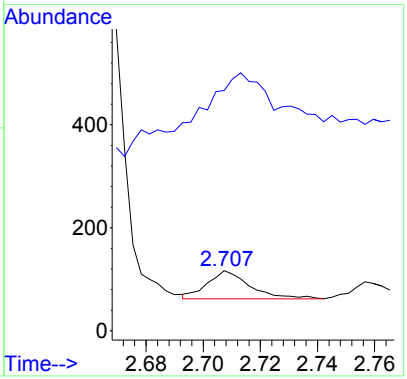




#3
14Dioxane
Concen: 0.00 ug/mL
RT: 2.707 min Scan# 77
Delta R.T. 0.005 min
Lab File: 356215.D
Acq: 22 Nov 2019 13:52

Tgt Ion: 58 Resp: 57

Ion	Ratio	Lower	Upper
58	100		
88	850.9	100.1	160.1#



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356217.D Vial: 7
Acq On : 22 Nov 2019 14:12 Operator: RPN
Sample : 166715,356217, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:35 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

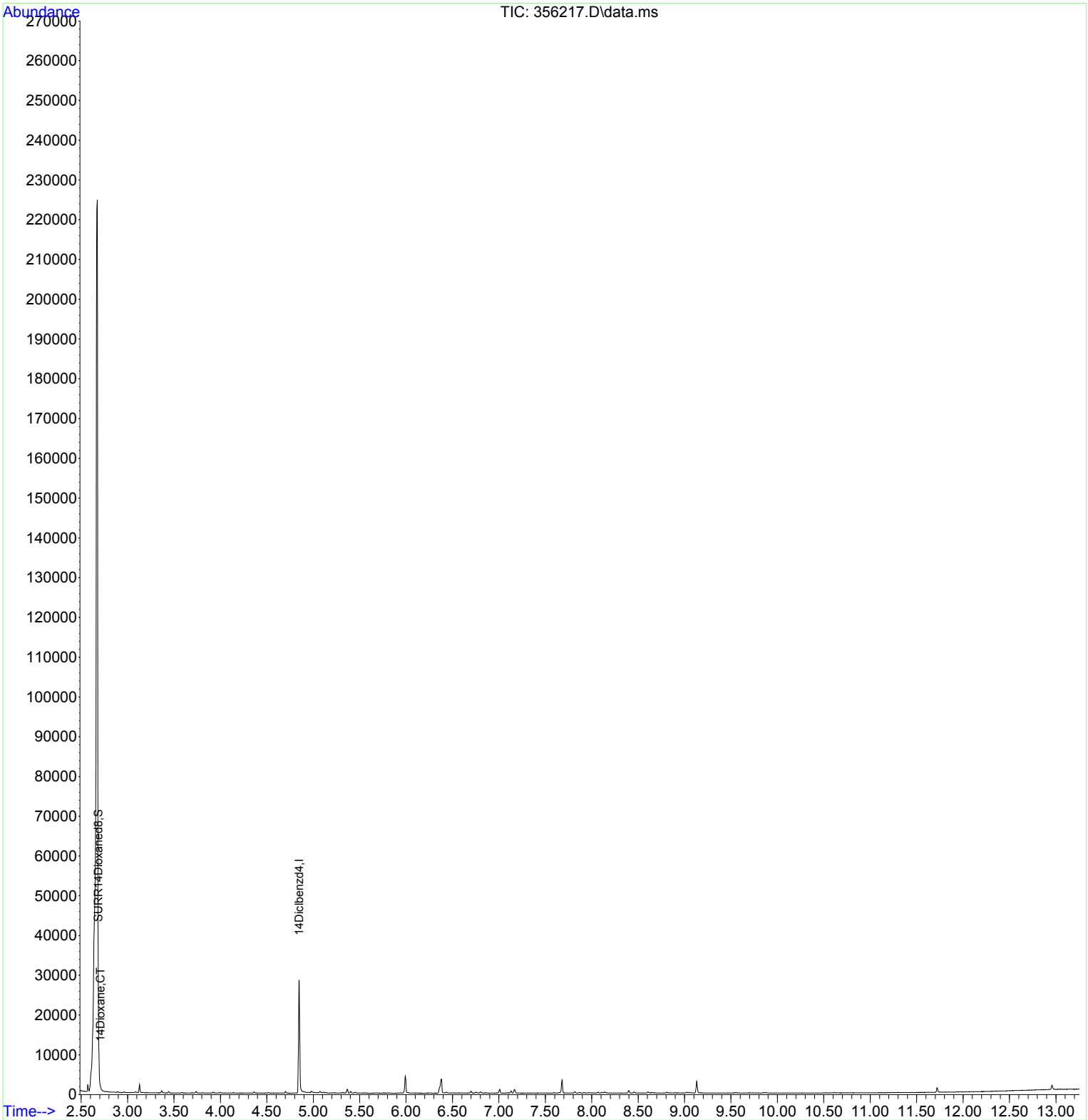
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	25942	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.684	64	8683	64.23	%REC	0.00
Spiked Amount 100.000			Recovery = 64.23%			
Target Compounds						Qvalue
3) 14Dioxane	2.707	58	118	0.0090	ug/mL#	1

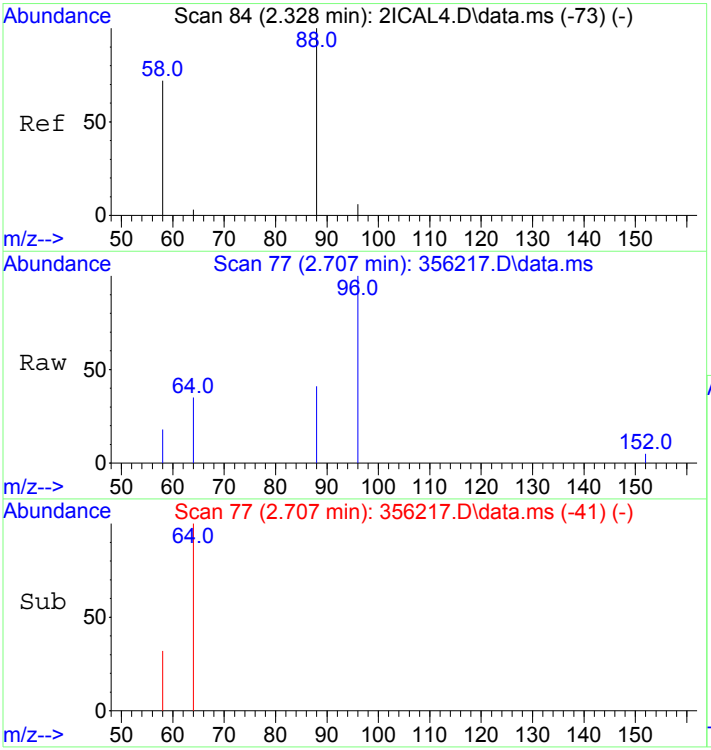
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356217.D Vial: 7
Acq On : 22 Nov 2019 14:12 Operator: RPN
Sample : 166715,356217, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:35 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

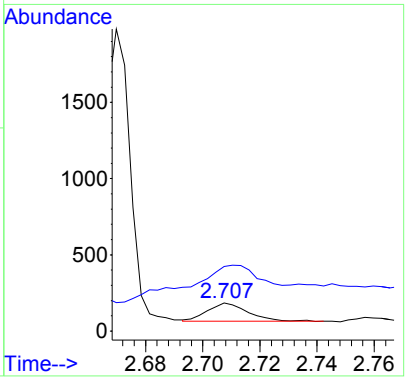




#3
14Dioxane
Concen: 0.01 ug/mL
RT: 2.707 min Scan# 77
Delta R.T. 0.005 min
Lab File: 356217.D
Acq: 22 Nov 2019 14:12

Tgt Ion: 58 Resp: 118

Ion	Ratio	Lower	Upper
58	100		
88	597.5	100.1	160.1#



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356222.D Vial: 8
Acq On : 22 Nov 2019 14:32 Operator: RPN
Sample : 166715,356222, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:37 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

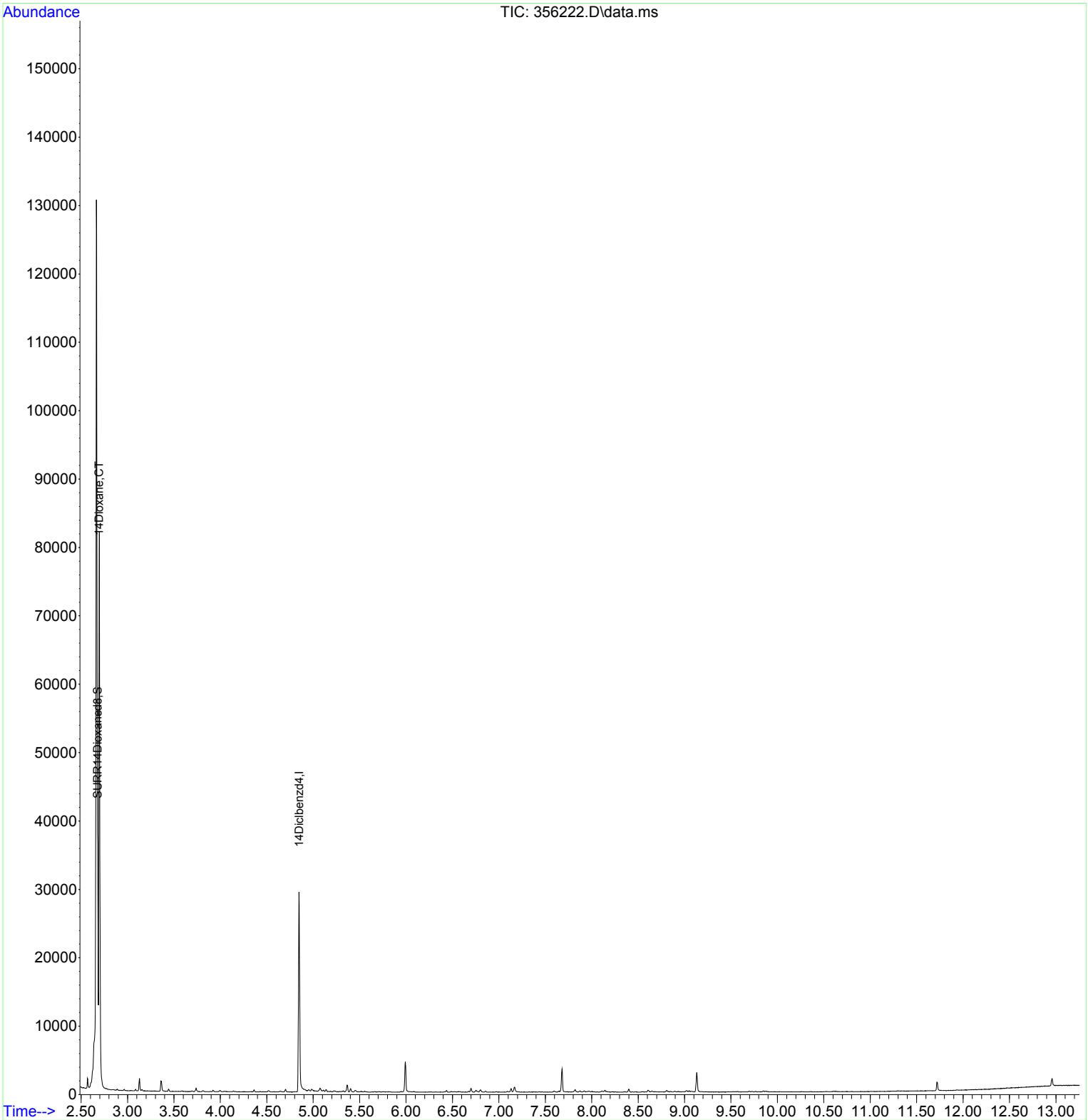
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	26586	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.679	64	8921	64.40	%REC	0.00
Spiked Amount 100.000			Recovery = 64.40%			
Target Compounds						Qvalue
3) 14Dioxane	2.693	58	25188	1.8674	ug/mL	99

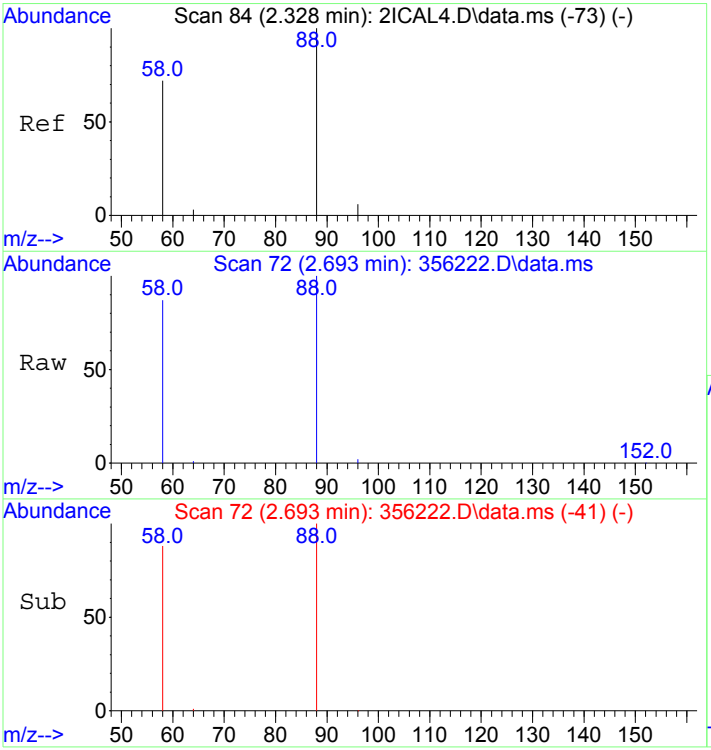
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356222.D Vial: 8
Acq On : 22 Nov 2019 14:32 Operator: RPN
Sample : 166715,356222, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:37 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

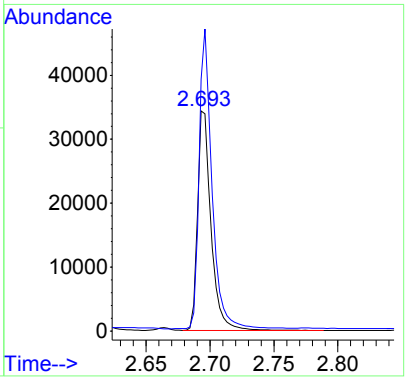




#3
14Dioxane
Concen: 1.87 ug/mL
RT: 2.693 min Scan# 72
Delta R.T. -0.009 min
Lab File: 356222.D
Acq: 22 Nov 2019 14:32

Tgt Ion: 58 Resp: 25188

Ion	Ratio	Lower	Upper
58	100		
88	130.9	100.1	160.1



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356223.D Vial: 9
Acq On : 22 Nov 2019 14:52 Operator: RPN
Sample : 166715,356223, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:39 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

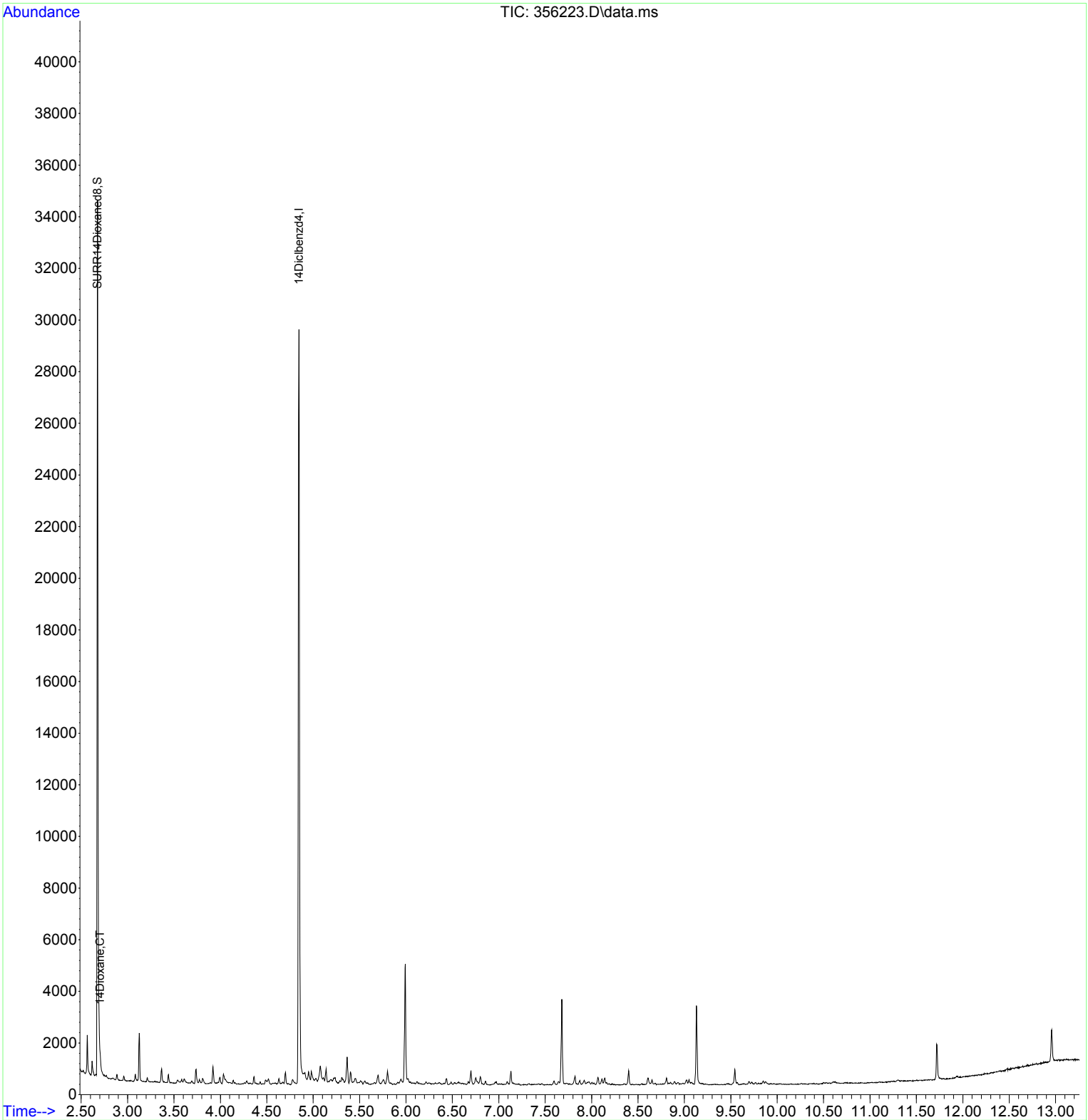
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	26529	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.675	64	10820	78.27	%REC	0.00
Spiked Amount 100.000			Recovery = 78.27%			
Target Compounds						Qvalue
3) 14Dioxane	2.701	58	59	0.0044	ug/mL#	21

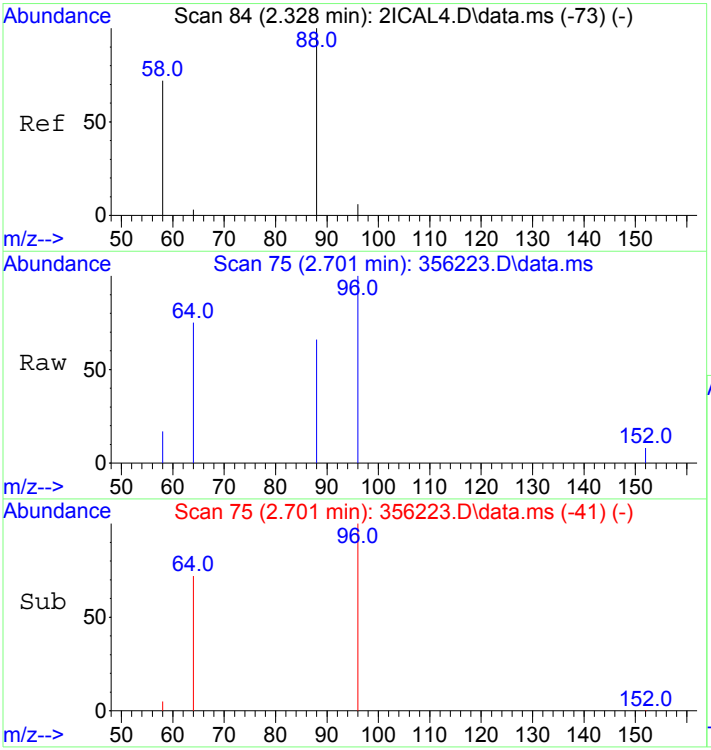
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356223.D Vial: 9
Acq On : 22 Nov 2019 14:52 Operator: RPN
Sample : 166715,356223, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:39 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

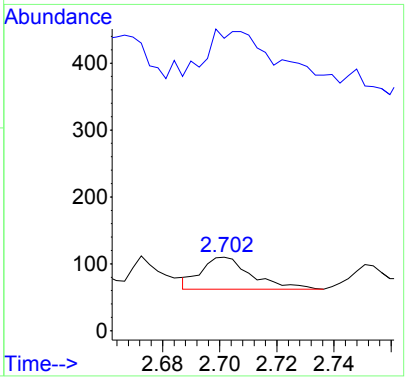




#3
14Dioxane
Concen: 0.00 ug/mL
RT: 2.701 min Scan# 75
Delta R.T. -0.001 min
Lab File: 356223.D
Acq: 22 Nov 2019 14:52

Tgt Ion: 58 Resp: 59

Ion	Ratio	Lower	Upper
58	100		
88	222.0	100.1	160.1#



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356226.D Vial: 10
Acq On : 22 Nov 2019 15:12 Operator: RPN
Sample : 166715,356226, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:41 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

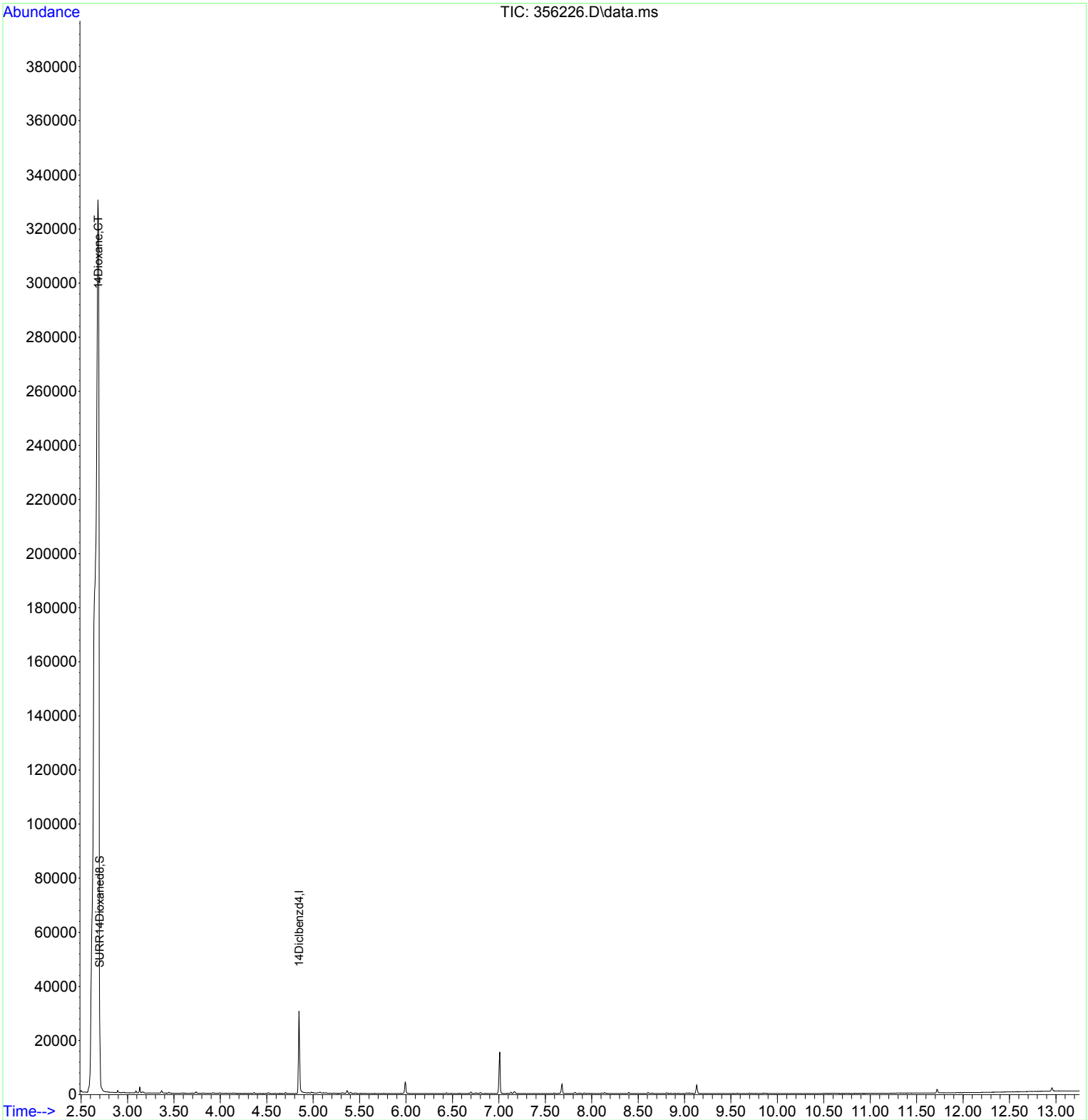
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	27002	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.699	64	6842	48.63	%REC	0.02
Spiked Amount 100.000			Recovery = 48.63%			
Target Compounds						Qvalue
3) 14Dioxane	2.684	58	11241	0.8206	ug/mL#	1

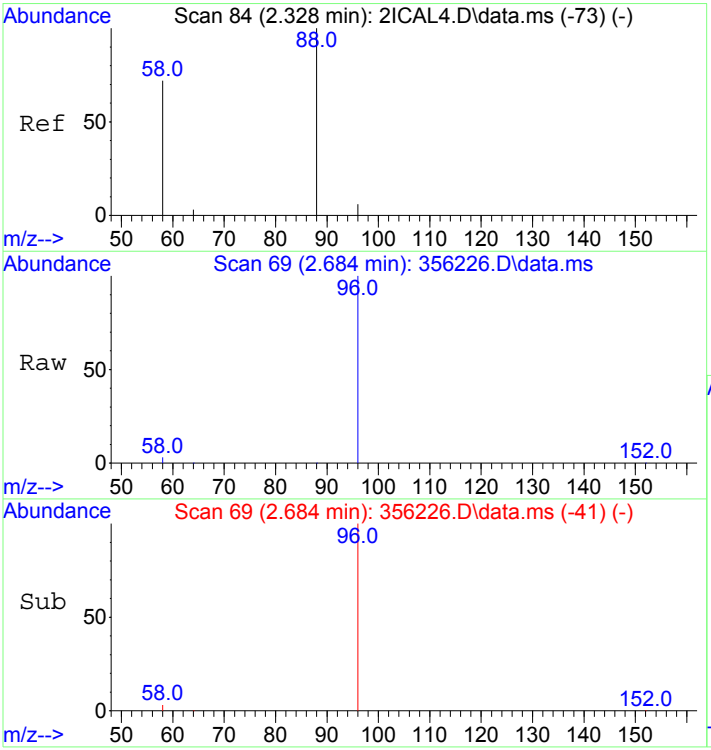
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356226.D Vial: 10
Acq On : 22 Nov 2019 15:12 Operator: RPN
Sample : 166715,356226, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:41 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

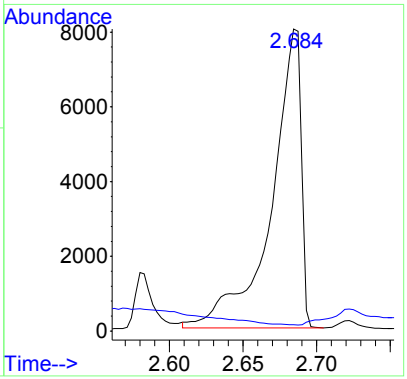




#3
14Dioxane
Concen: 0.82 ug/mL
RT: 2.684 min Scan# 69
Delta R.T. -0.018 min
Lab File: 356226.D
Acq: 22 Nov 2019 15:12

Tgt Ion: 58 Resp: 11241

Ion	Ratio	Lower	Upper
58	100		
88	0.0	100.1	160.1#



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356227.D Vial: 11
Acq On : 22 Nov 2019 15:33 Operator: RPN
Sample : 166715,356227, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:43 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

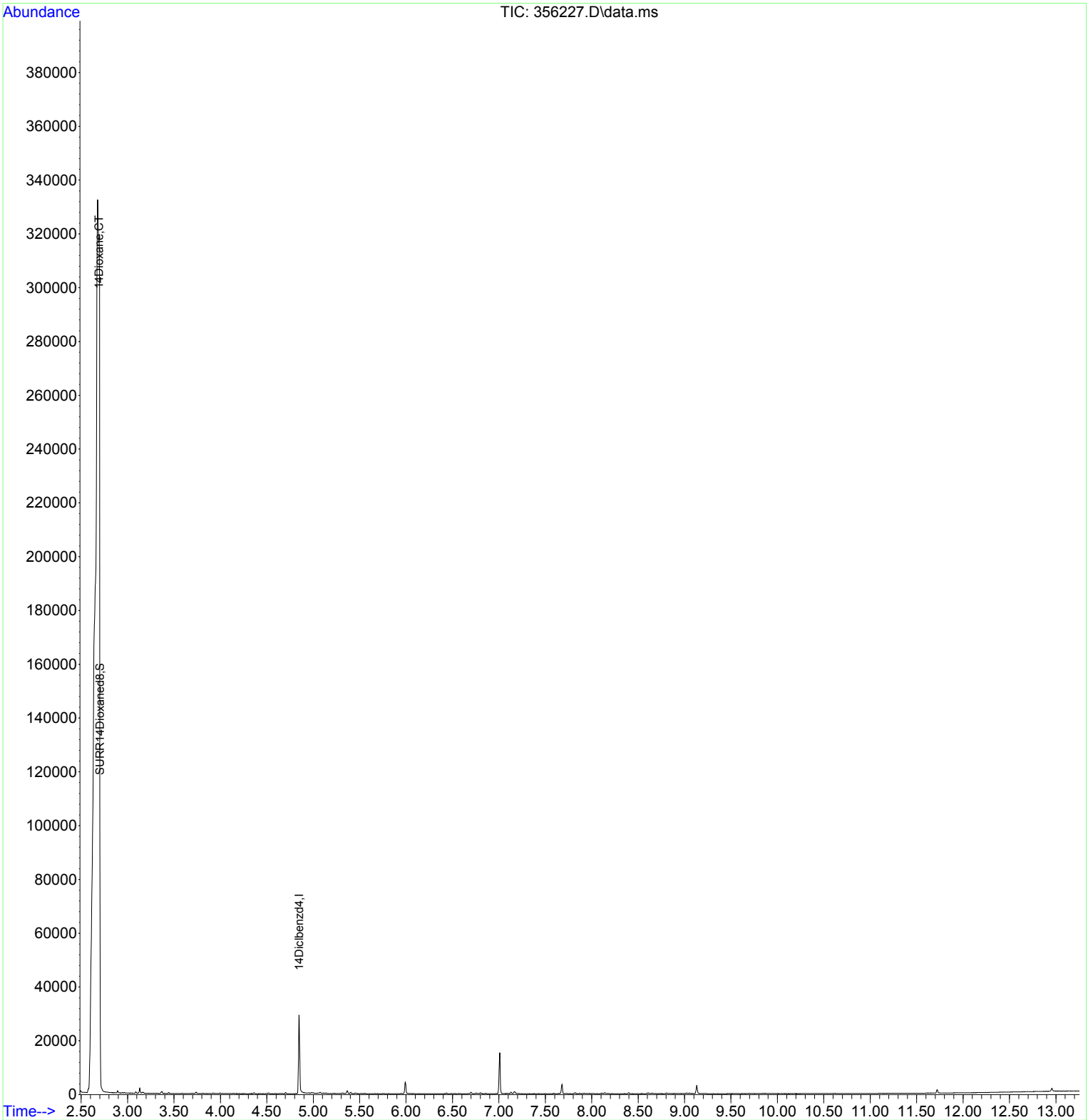
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	26531	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.702	64	7577	54.81	%REC	0.02
Spiked Amount 100.000			Recovery = 54.81%			
Target Compounds						Qvalue
3) 14Dioxane	2.693	58	18439	1.3699	ug/mL#	1

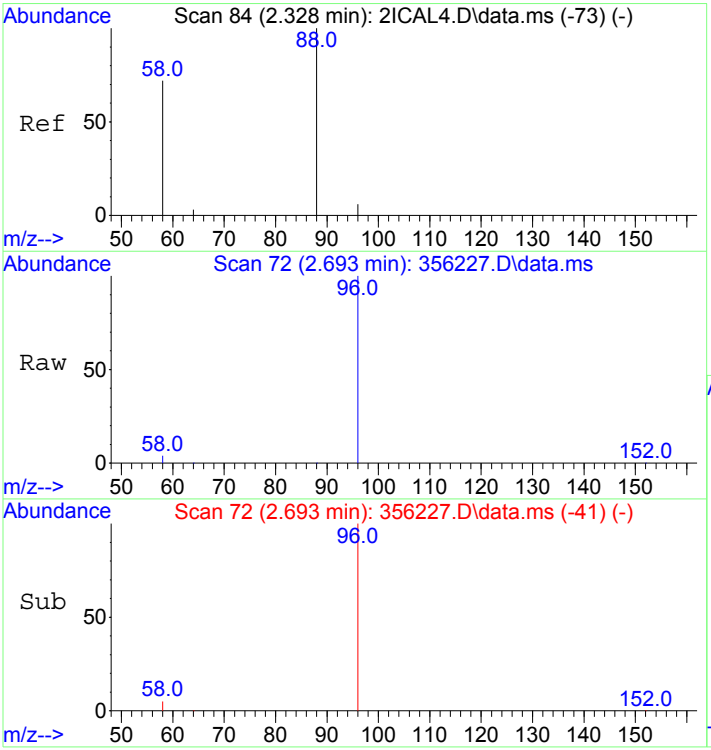
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356227.D Vial: 11
Acq On : 22 Nov 2019 15:33 Operator: RPN
Sample : 166715,356227, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:43 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

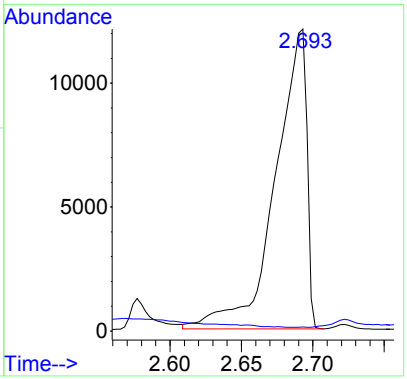




#3
14Dioxane
Concen: 1.37 ug/mL
RT: 2.693 min Scan# 72
Delta R.T. -0.009 min
Lab File: 356227.D
Acq: 22 Nov 2019 15:33

Tgt Ion: 58 Resp: 18439

Ion	Ratio	Lower	Upper
58	100		
88	0.0	100.1	160.1#



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356228.D Vial: 12
Acq On : 22 Nov 2019 15:53 Operator: RPN
Sample : 166715,356228, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:37:35 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

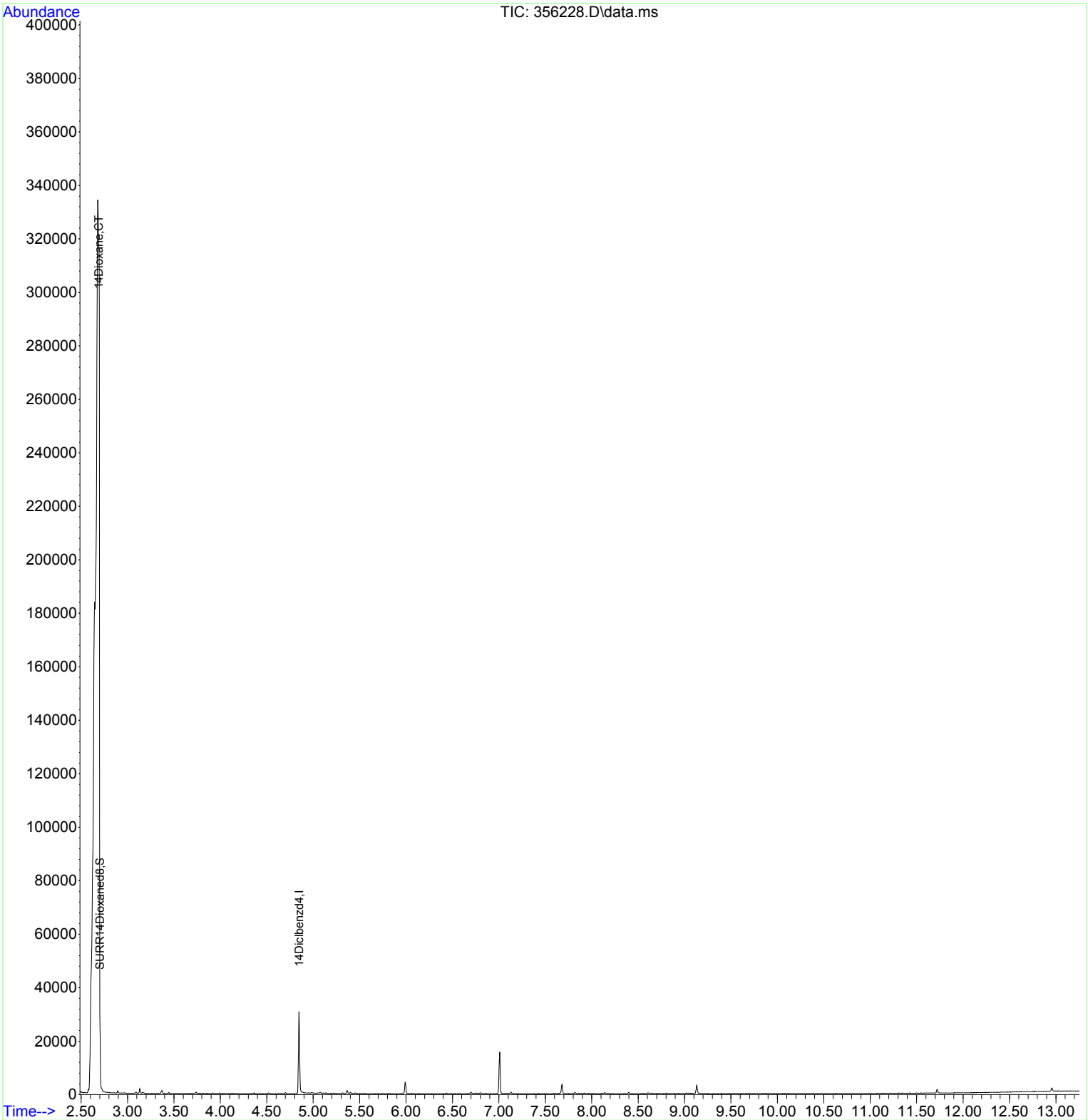
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	26962	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.702	64	5865	41.75	%REC	0.00
Spiked Amount 100.000			Recovery = 41.75%			
Target Compounds						Qvalue
3) 14Dioxane	2.690	58	13402	0.9797	ug/mL#	1

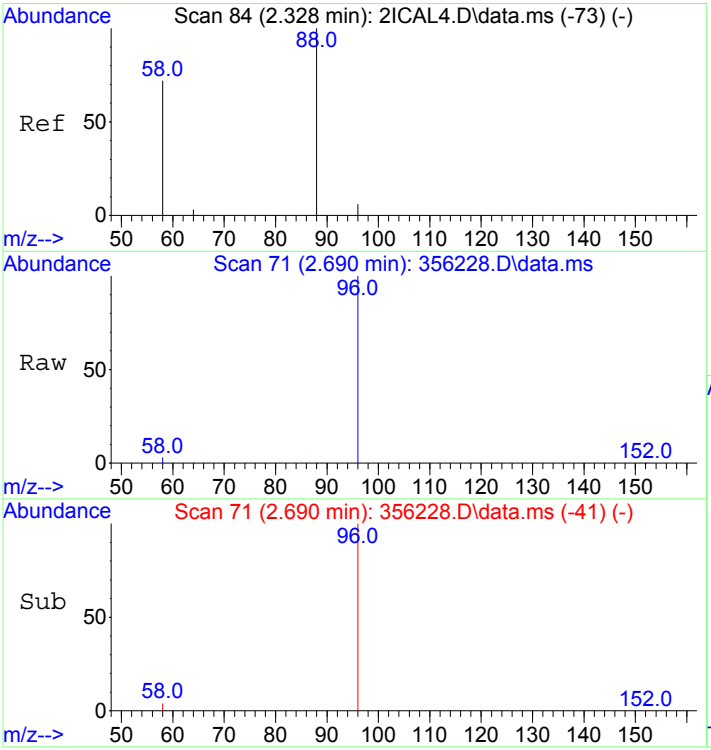
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356228.D Vial: 12
Acq On : 22 Nov 2019 15:53 Operator: RPN
Sample : 166715,356228, Inst : SVMS2
Misc : 500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:37:35 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

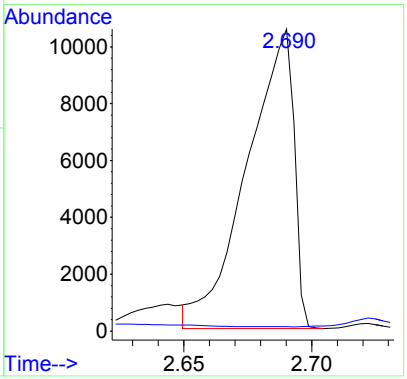




#3
14Dioxane
Concen: 0.98 ug/mL
RT: 2.690 min Scan# 71
Delta R.T. -0.012 min
Lab File: 356228.D
Acq: 22 Nov 2019 15:53

Tgt Ion: 58 Resp: 13402

Ion	Ratio	Lower	Upper
58	100		
88	0.0	100.1	160.1#



SEMI - VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S111919.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S111919\2DFTP420.D
Injection Date : 19 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 10:35 Total files within period : 10
Sample Directory : C:\INSTARCH\DATA\2S111919\

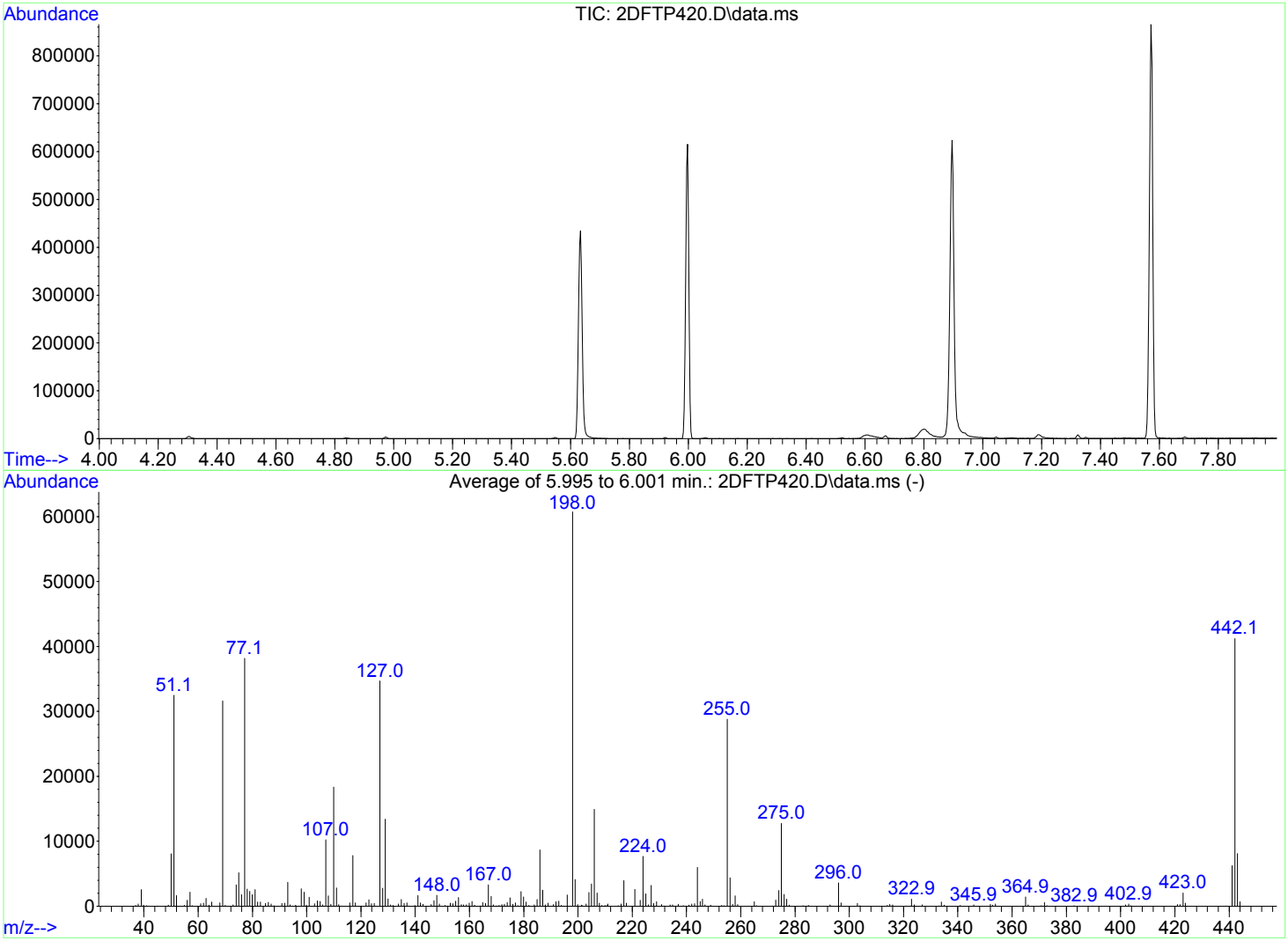
Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
2IB01	1.00	1.00	1.00	InstrumentBlank 500ul+5ul IS S4170B	19 Nov 2019	10:50
2ICAL7	1.00	1.00	1.00	ICAL 50ug/mL SVMS8532 500ul+5ul IS S4170B	19 Nov 2019	11:12
2ICAL6	1.00	1.00	1.00	ICAL 40ug/mL SVMS8531 500ul+5ul IS S4170B	19 Nov 2019	11:33
2ICAL5	1.00	1.00	1.00	ICAL 30ug/mL SVMS8530 500ul+5ul IS S4170B	19 Nov 2019	11:54
2ICAL4	1.00	1.00	1.00	ICAL 20ug/mL SVMS8529 500ul+5ul IS S4170B	19 Nov 2019	12:15
2ICAL3	1.00	1.00	1.00	ICAL 10ug/mL SVMS7528 500ul+5ul IS S4170B	19 Nov 2019	12:36
2ICAL2	1.00	1.00	1.00	ICAL 5ug/mL SVMS8527 500ul+5ul IS S4170B	19 Nov 2019	12:57
2ICAL1	1.00	1.00	1.00	ICAL 1ug/mL SVMS8526 500ul+5ul IS S4170B	19 Nov 2019	13:19
2ICV1	1.00	1.00	1.00	ICV 20ug/mL SVMS8533 500ul+5ul IS S4170B	19 Nov 2019	13:40
2ICV2	1.00	1.00	1.00	ICV 40ug/mL SVMS8534 500ul+5ul IS S4170B	19 Nov 2019	14:01

DFTPP

Data File : C:\INSTARCH\DATA\2S111919\2DFTP420.D Vial: 1
Acq On : 19 Nov 2019 10:35 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTPP2.M
Title : DFTPP TUNE
Last Update : Fri Nov 22 10:40:45 2019



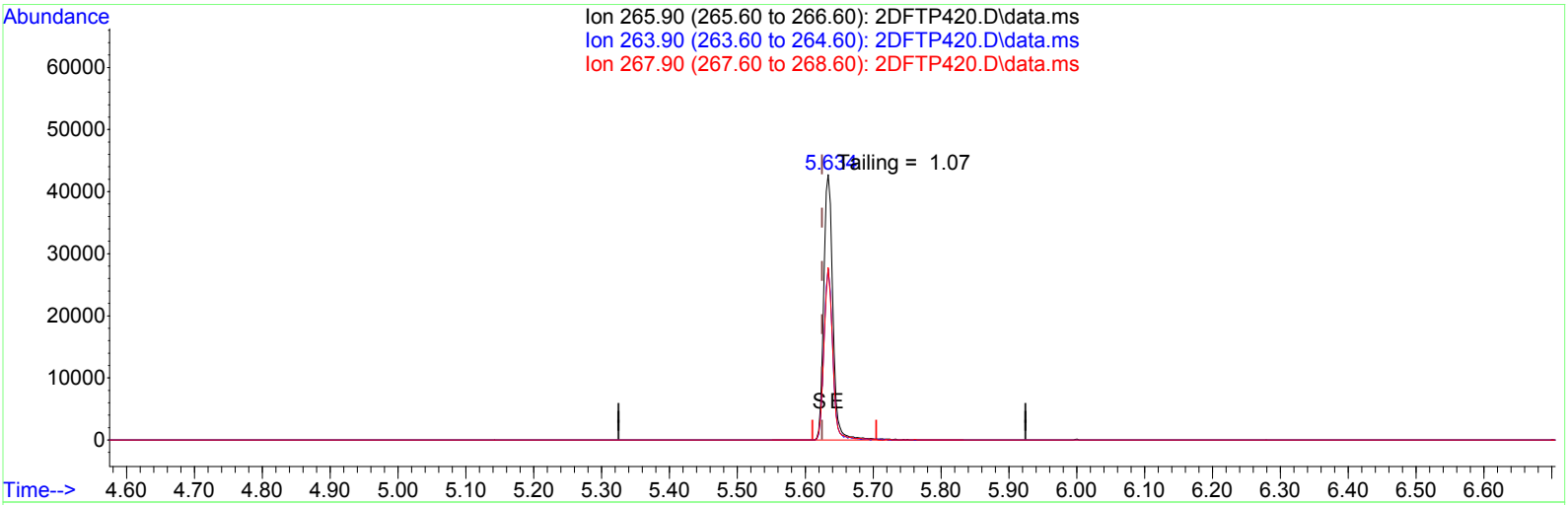
AutoFind: Scans 954, 955, 956; Background Corrected with Scan 946

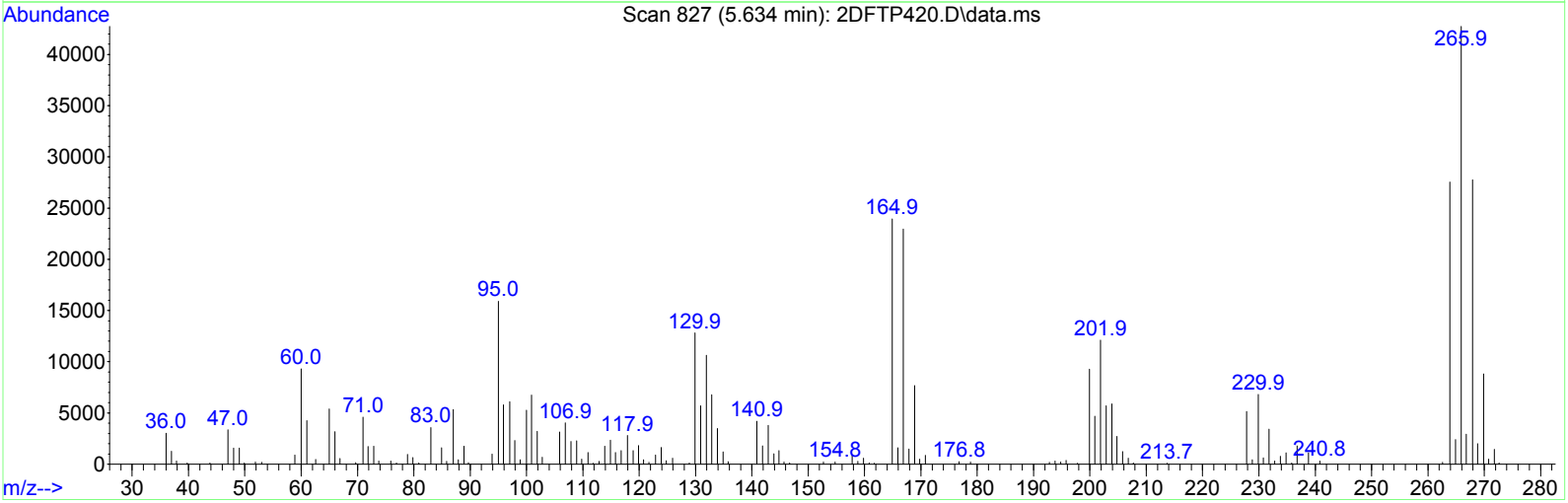
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	53.5	32499	PASS
68	69	0.00	2	1.6	502	PASS
70	69	0.00	2	0.5	151	PASS
127	198	10	80	57.1	34688	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	60728	PASS
199	198	5	9	6.8	4113	PASS
275	198	10	60	21.0	12765	PASS
365	198	1	100	2.3	1420	PASS
441	442	0.01	24	15.1	6244	PASS
442	198	50	100	67.9	41224	PASS
443	442	15	24	19.7	8103	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S111919\2DFTP420.D Vial: 1
Acq On : 19 Nov 2019 10:35 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 14:52:17 2019

Quant Method : C:\INSTARCH\METHOD\2DFTPP2.M
Quant Title : DFTPP TUNE
QLast Update : Fri Nov 22 10:40:45 2019
Response via : Initial Calibration
DataAcq Meth:2DFTPP2.M





TIC: 2DFTP420.D\data.ms

(1) Pentachlorophenol

5.634min (+ 0.009) 2.28 ng

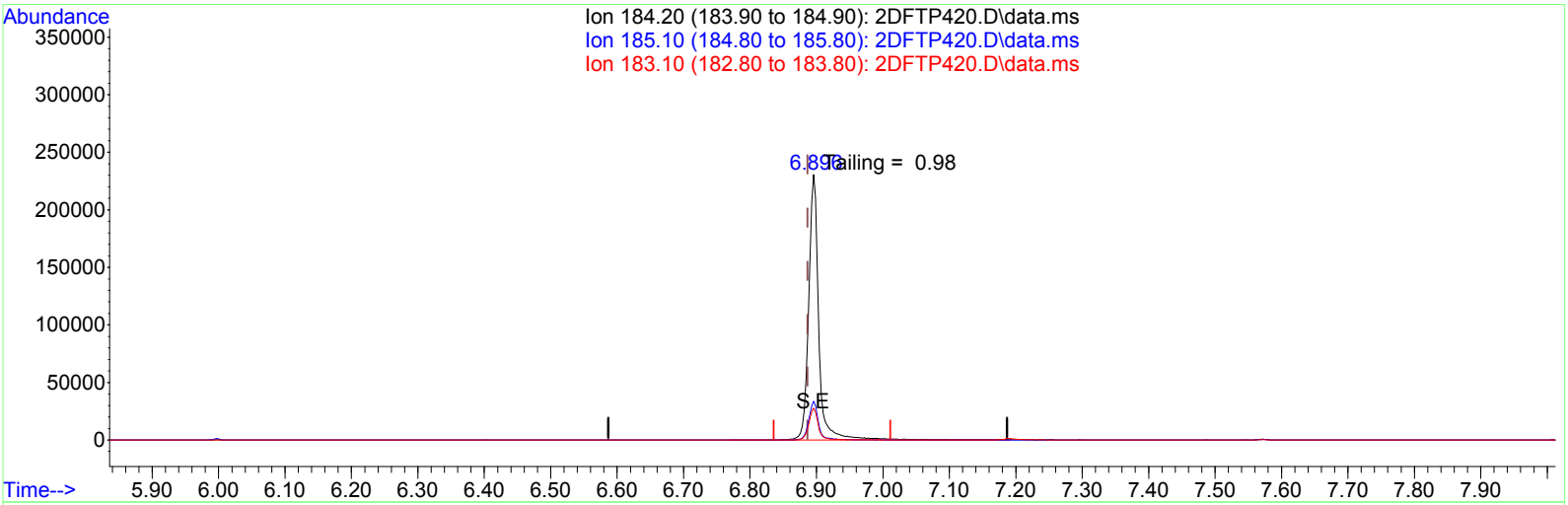
response 39511

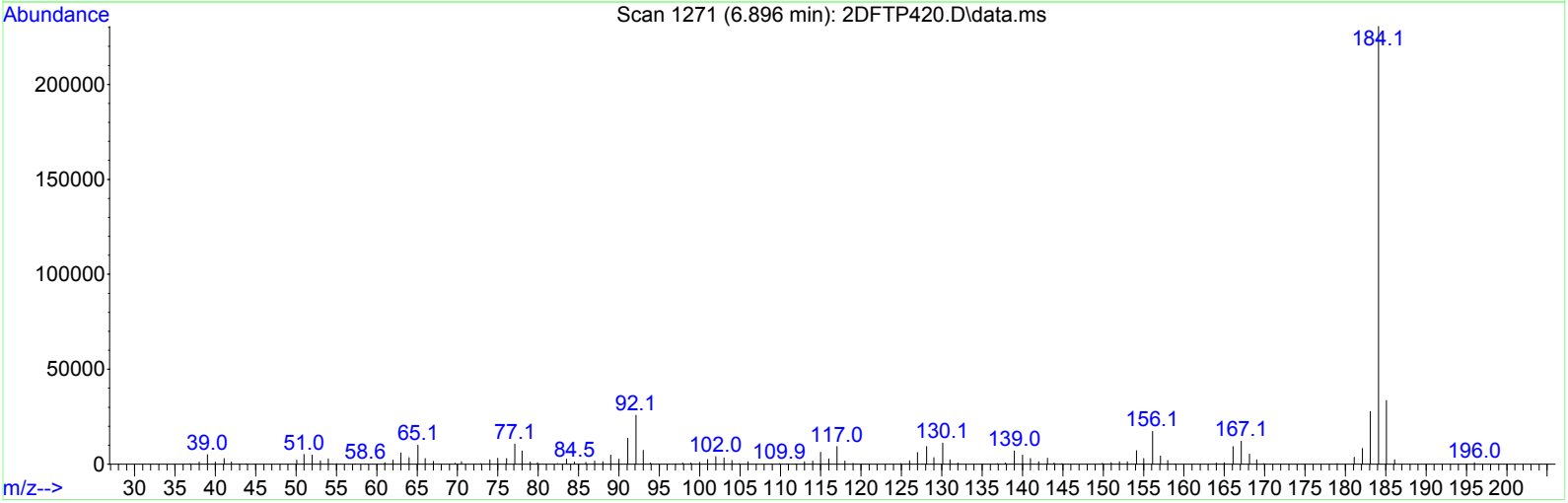
Ion	Exp%	Act%
265.90	100.00	100.00
263.90	63.90	62.43
267.90	64.40	61.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S111919\2DFTP420.D Vial: 1
Acq On : 19 Nov 2019 10:35 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 14:52:17 2019

Quant Method : C:\INSTARCH\METHOD\2DFTPP2.M
Quant Title : DFTPP TUNE
QLast Update : Fri Nov 22 10:40:45 2019
Response via : Initial Calibration
DataAcq Meth:2DFTPP2.M





TIC: 2DFTP420.D\data.ms

(3) Benzidine

6.896min (+ 0.009) 3.68 ng

response 241977

Ion	Exp%	Act%
184.20	100.00	100.00
185.10	15.80	13.86
183.10	11.70	11.33
0.00	0.00	0.00

Data File Name	2DFTP420.D
Vial Number	1
Data File Path	C:\INSTARCH\DATA\2S111919\
Operator	RPN
Date Acquired	11/19/2019 10:35
Instrument Name	SVMS2
Sample Name	DFTPP TUNE SVMS8353
Sample Multiplier	1
Misc Info	SVMS2, 50ng DFTPP
Calibration Title	DFTPP TUNE
Last Calibration Update	Fri Nov 22 10:40:45 2019

#	Name	Ret Time	Target Response
1)	Pentachlorophenol	5.63	39511
2)	DFTPP	6.00	50005
3)	Benzidine	6.90	241977
4)	DDE	7.05	352
5)	DDD	7.32	1003
6)	DDT	7.57	120380

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \quad 1.11\ \%$$

Response Factor Report SVMS2

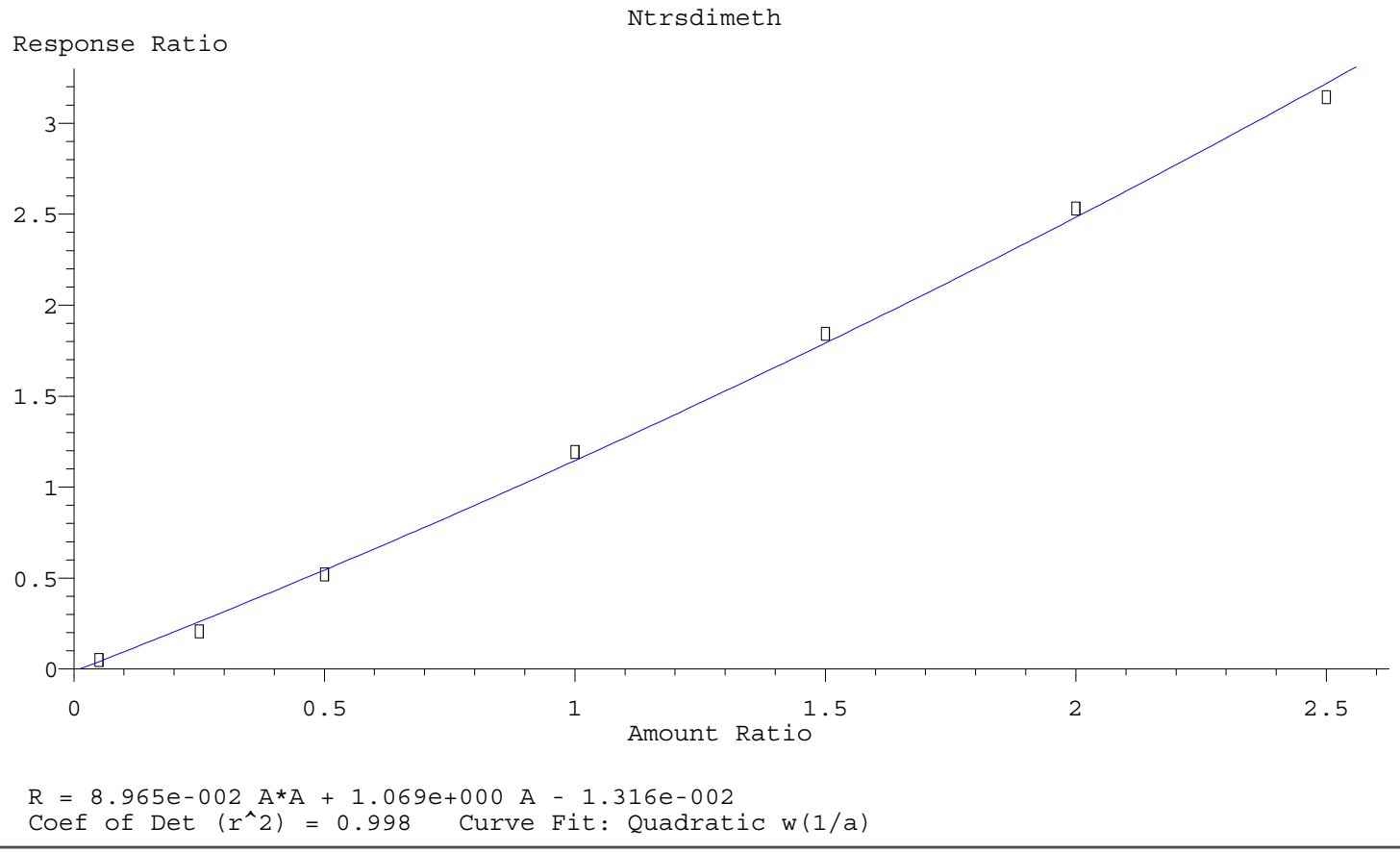
Method Path : C:\INSTARCH\METHOD\
Method File : 2S111919.M
Title : Method for 8270 Analysis
Last Update : Tue Nov 19 15:36:36 2019
Response Via : Initial Calibration

Calibration Files
1 =2ICAL1.D 5 =2ICAL2.D 10 =2ICAL3.D 20 =2ICAL4.D 30 =2ICAL5.D 40 =2ICAL6.D 50 =2ICAL7.D

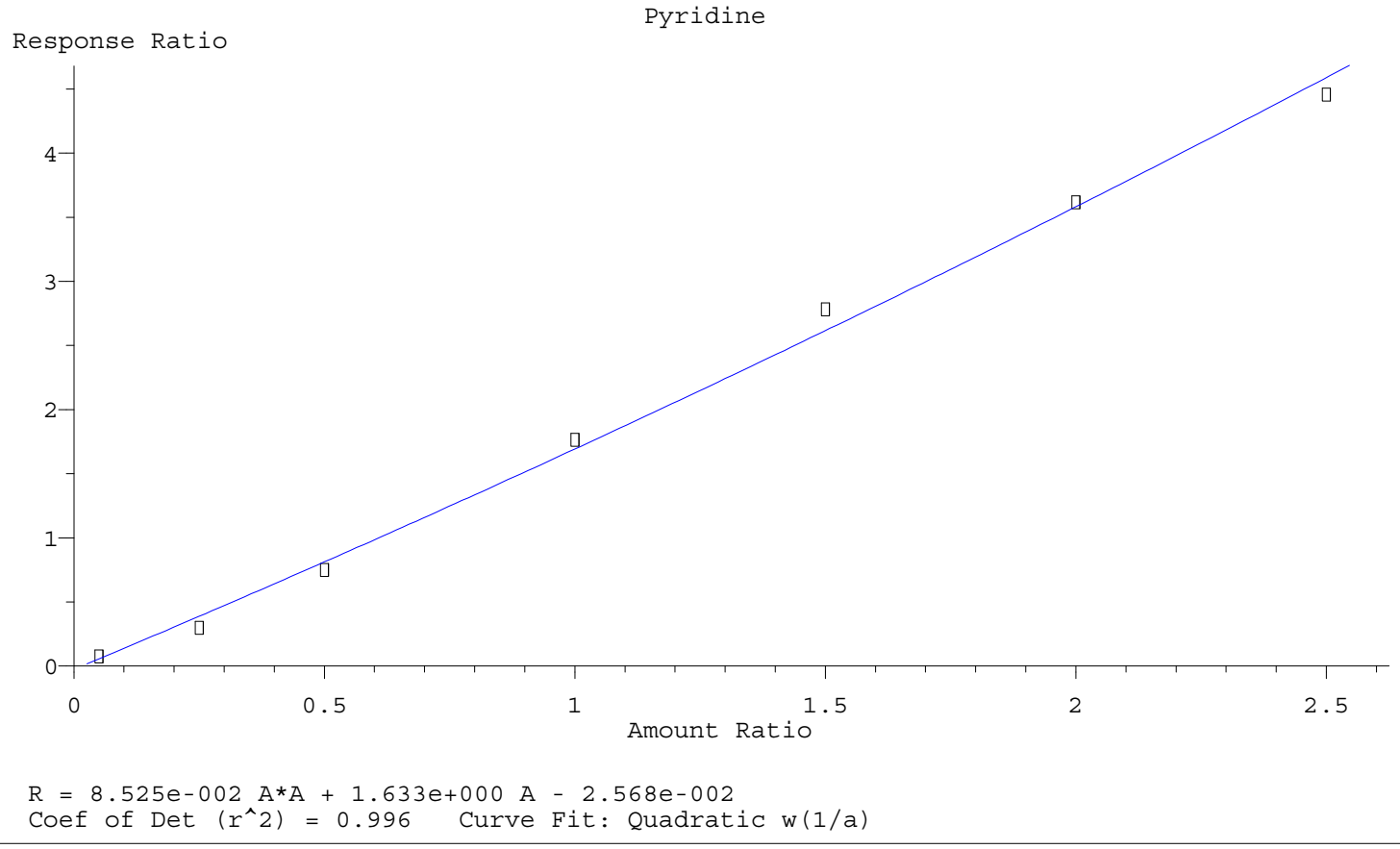
		Compound	1	5	10	20	30	40	50	Avg	%RSD
1)	I	14Diclbenzd4	----------ISTD----------								
2)	CT	Ntrsdimeth	0.996	0.828	1.037	1.192	1.228	1.265	1.257	1.115	14.83
3)	CT	Pyridine	1.469	1.187	1.499	1.762	1.853	1.808	1.782	1.623	15.12
4)	S	SURR2Flphenol	0.490	0.459	0.539	0.612	0.637	0.634	0.621	0.570	12.95
5)	CT	Aniline	2.388	1.735	2.010	2.381	2.369	2.527	2.452	2.266	12.59
6)	CPT	bis2Clethletr	1.790	1.341	1.647	1.843	1.851	1.749	1.651	1.696	10.42
7)	S	SURRPhenol-d5	0.657	0.614	0.708	0.792	0.805	0.796	0.760	0.733	10.24
8)	CPT	Phenol	1.855	1.491	1.808	2.036	2.099	2.062	1.929	1.897	11.03
9)	CPT	2-Cl-phenol	1.404	1.136	1.394	1.576	1.593	1.562	1.476	1.448	11.04
10)	CT	13Diclbenz	1.726	1.266	1.487	1.654	1.684	1.621	1.552	1.570	9.97
11)	CT	14Diclbenz	1.741	1.271	1.490	1.664	1.656	1.601	1.530	1.565	9.88
12)	CT	12Diclbenz	1.597	1.133	1.370	1.516	1.513	1.445	1.367	1.420	10.66
13)	CT	Benzyl alcoho	0.595	0.606	0.810	0.975	1.002	1.011	0.962	0.852	21.62#
14)	CPT	bis2clispreth	2.706	1.908	2.281	2.536	2.475	2.390	2.229	2.361	10.82
15)	CPT	2Methylphenol	1.069	0.901	1.074	1.222	1.207	1.161	1.089	1.103	9.89
16)	CT	Ntrspyrrol	0.633	0.504	0.679	0.779	0.801	0.779	0.725	0.700	15.07
17)	CPT	Acetophenone	2.064	1.570	1.851	2.006	2.007	1.893	1.731	1.875	9.37
18)	CPT	Hexaclethane	0.640	0.477	0.571	0.625	0.624	0.596	0.565	0.586	9.51
19)	CPT	N-Ntrsdinprop	1.261	0.931	1.128	1.269	1.269	1.210	1.101	1.167	10.68
20)	CPT	3&4Methylphenol	1.420	1.124	1.317	1.483	1.481	1.346	1.245	1.345	9.73
21)	I	Naphthalened8	----------ISTD----------								
22)	S	SURRNitrbenzened5	0.088	0.069	0.084	0.092	0.094	0.093	0.092	0.088	10.19
23)	CPT	Nitrobenzene	0.483	0.368	0.441	0.485	0.488	0.482	0.467	0.459	9.44
24)	CPT	Isophorone	0.816	0.616	0.764	0.854	0.876	0.882	0.855	0.809	11.64
25)	CPT	2-Nitrophenol	0.162	0.153	0.194	0.214	0.216	0.218	0.213	0.196	14.06
26)	CPT	24Dimthpheno	0.329	0.243	0.299	0.332	0.347	0.345	0.339	0.319	11.71
27)	CPT	bis2clethoxym	0.478	0.373	0.446	0.485	0.494	0.492	0.473	0.463	9.22
28)	CPT	24Diclphenol	0.242	0.215	0.258	0.292	0.298	0.292	0.282	0.268	11.56
29)	CT	124Triclbenz	0.331	0.242	0.284	0.307	0.305	0.298	0.289	0.294	9.29
30)	CT	Benzoic acid		0.050	0.149	0.172	0.201	0.225	0.230	0.171	39.06#
31)	CPT	Naphthalene	1.219	0.880	1.021	1.110	1.100	1.063	1.022	1.059	9.80
32)	CPT	4-Cl-aniline	0.397	0.307	0.340	0.375	0.338	0.380	0.406	0.363	9.84
33)	CT	26Diclphenol	0.204	0.159	0.195	0.219	0.220	0.209	0.202	0.201	10.23
34)	CT	Hexaclprop	0.173	0.140	0.170	0.189	0.190	0.186	0.179	0.175	9.88
35)	CPT	Hexaclbutdien	0.156	0.120	0.137	0.147	0.146	0.140	0.135	0.140	8.20
36)	CPT	4Cl3methylphe	0.272	0.238	0.300	0.335	0.355	0.358	0.346	0.315	14.64
37)	CPT	2Methylnaphth	0.775	0.598	0.693	0.756	0.759	0.744	0.700	0.718	8.49
38)	CT	1Methylnaphth	0.657	0.488	0.563	0.620	0.629	0.602	0.574	0.590	9.39
39)	I	Acenaphthened10	----------ISTD----------								
40)	CPT	Hxclcycpentdi	0.237	0.209	0.277	0.315	0.318	0.308	0.303	0.281	15.22
41)	CPT	1245Tetrclbenz	0.596	0.437	0.505	0.553	0.541	0.517	0.499	0.521	9.56
42)	CPT	246Triclpheno	0.306	0.267	0.338	0.380	0.389	0.412	0.399	0.356	15.12

Method Path : C:\INSTARCH\METHOD\
Method File : 2S111919.M

43)	CPT	245Triclpheno	0.304	0.296	0.370	0.409	0.402	0.373	0.363	0.360	12.27
44)	S	SURR2Flbiphenyl	0.311	0.228	0.264	0.285	0.281	0.275	0.265	0.273	9.21
45)	CPT	2Clnaphthalen	1.354	0.984	1.133	1.246	1.219	1.197	1.159	1.185	9.59
46)	CPT	2Nitroaniline	0.377	0.359	0.462	0.519	0.538	0.541	0.533	0.476	16.50
47)	CPT	Acnaphthylene	2.070	1.580	1.850	2.021	1.989	1.914	1.829	1.893	8.67
48)	CPT	Dimethylphtha	1.507	1.126	1.211	1.367	1.191	1.134	1.129	1.238	11.78
49)	CPT	26Dinitrotolu	0.310	0.269	0.294	0.343	0.301	0.292	0.284	0.299	7.79
50)	CPT	Acenaphthene	1.348	1.021	1.209	1.334	1.329	1.303	1.245	1.256	9.17
51)	CPT	3Nitroaniline	0.268	0.256	0.324	0.327	0.323	0.342	0.351	0.313	11.64
52)	CPT	24Dinitphenol		0.044	0.120	0.166	0.187	0.191	0.188	0.149	38.91#
53)	CPT	Dibenzofuran	1.956	1.389	1.610	1.744	1.718	1.652	1.270	1.620	14.15
54)	CPT	24Dinitrotolu	0.378	0.335	0.383	0.440	0.393	0.379	0.360	0.381	8.40
55)	CPT	4-Nitrophenol		0.266	0.328	0.375	0.358	0.359	0.350	0.339	11.48
56)	CT	2,3,5,6-Tetrac...	0.258	0.189	0.277	0.294	0.328	0.337	0.313	0.285	17.76
57)	CPT	2,3,4,6-Tetrac...	0.258	0.227	0.263	0.301	0.270	0.255	0.247	0.260	8.67
58)	CPT	Fluorene	1.586	1.151	1.343	1.432	1.416	1.352	1.042	1.332	13.69
59)	CPT	4Clphlphlethr	0.768	0.523	0.598	0.636	0.612	0.597	0.560	0.614	12.63
60)	CPT	Diethylphthal	1.626	1.156	1.263	1.423	1.242	1.226	1.185	1.303	12.73
61)	CPT	4Nitroaniline	0.308	0.252	0.324	0.370	0.335	0.343	0.338	0.324	11.45
62)	S	SURR246Tribrphenl		0.049	0.048	0.056	0.046	0.044	0.042	0.047	10.04
63)	I	Phenanthrd10	----------ISTD----------								
64)	CPT	46Dinit2mylph		0.096	0.146	0.179	0.187	0.187	0.182	0.163	22.20#
65)	CPT	Ntrsdiphlam&Di...	0.737	0.530	0.590	0.678	0.590	0.544	0.524	0.599	13.42
66)	CT	Azobenz&12Diph...	0.301	0.232	0.278	0.295	0.263	0.240	0.230	0.263	11.23
67)	CPT	4Brphlphlethr	0.232	0.171	0.192	0.223	0.203	0.193	0.189	0.201	10.45
68)	CPT	Hexaclbenzene	0.234	0.164	0.196	0.210	0.197	0.219	0.178	0.200	11.82
69)	CPT	Pentaclphenol		0.054	0.094	0.116	0.127	0.133	0.127	0.108	27.66#
70)	CPT	Phenanthrene	1.341	0.965	1.202	1.263	1.417	1.368	1.076	1.233	13.31
71)	CPT	Anthracene	1.326	0.971	1.108	1.245	1.198	1.142	1.075	1.152	10.13
72)	CPT	Carbazole	1.183	0.857	0.861	0.883	0.833	0.814	0.851	0.897	14.24#
73)	CPT	Dinbtylphthal	1.496	1.138	1.311	1.440	1.440	1.381	1.305	1.358	8.84
74)	CPT	Fluoranthene	1.339	1.022	1.176	1.303	1.326	1.253	1.195	1.230	9.04
75)	I	Chrysene-d12	----------ISTD----------								
76)	CT	Benzidine	0.393	0.312	0.340	0.418	0.430	0.500	0.570	0.423	21.05#
77)	CPT	Pyrene	1.723	1.295	1.485	1.523	1.512	1.512	1.453	1.500	8.40
78)	S	SURRTerphenyl-d14	0.212	0.159	0.184	0.189	0.186	0.184	0.180	0.185	8.39
79)	CPT	Btylbzylphth	0.974	0.848	1.037	1.128	1.105	1.128	1.043	1.038	9.72#
80)	CT	bis2Ethlhxlad	0.604	0.524	0.661	0.711	0.733	0.738	0.710	0.669	11.84
81)	CPT	33Diclbnzidin	0.438	0.326	0.364	0.381	0.355	0.342	0.353	0.365	9.92
82)	CPT	B[a]anthracen	1.462	1.095	1.253	1.374	1.371	1.353	1.303	1.316	8.90
83)	CPT	Chrysene	1.477	1.079	1.237	1.343	1.328	1.298	1.249	1.287	9.43
84)	CPT	bis2Ethlhxlph	0.974	0.834	1.014	1.113	1.097	1.110	1.034	1.025	9.71
85)	CPT	Dinoctylphthl	1.465	1.349	1.745	2.001	2.052	2.048	1.890	1.793	15.96
86)	I	Perylene-d12	----------ISTD----------								
87)	CPT	B[b]fluoranth	1.166	0.878	1.102	1.164	1.183	1.139	1.106	1.105	9.48
88)	CPT	B[k]fluoranth	1.285	0.956	1.061	1.115	1.082	1.078	1.024	1.086	9.34
89)	CPT	Benz[a]pyrene	1.149	0.873	1.046	1.127	1.107	1.077	1.036	1.059	8.68
90)	CPT	Indeno-pyrene	1.121	0.953	1.174	1.357	1.360	1.269	1.189	1.203	11.91
91)	CPT	Dib[ah]anthr	0.923	0.763	0.954	1.087	1.071	1.014	0.940	0.964	11.35
92)	CPT	B[ghi]perylen	0.948	0.822	1.035	1.189	1.200	1.118	1.037	1.050	12.85

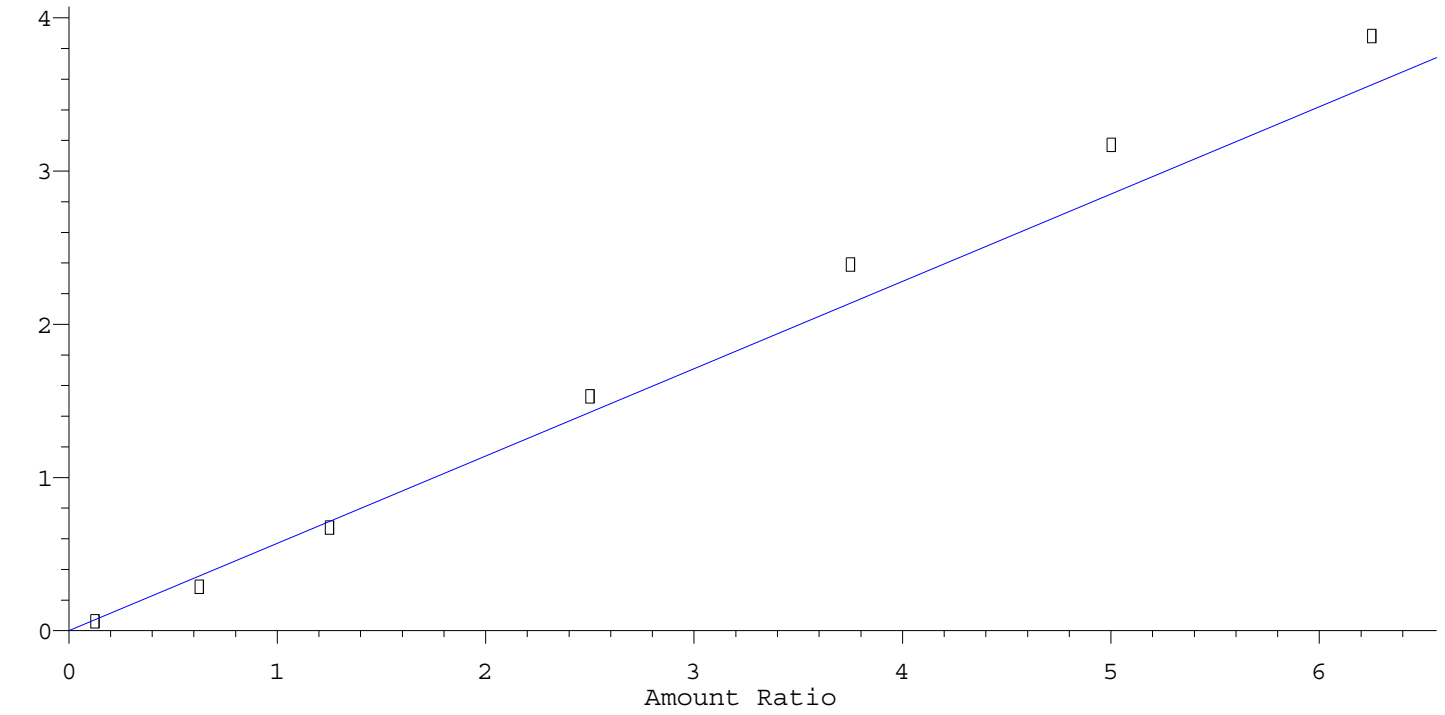


R = 8.965e-002 A*A + 1.069e+000 A - 1.316e-002
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)



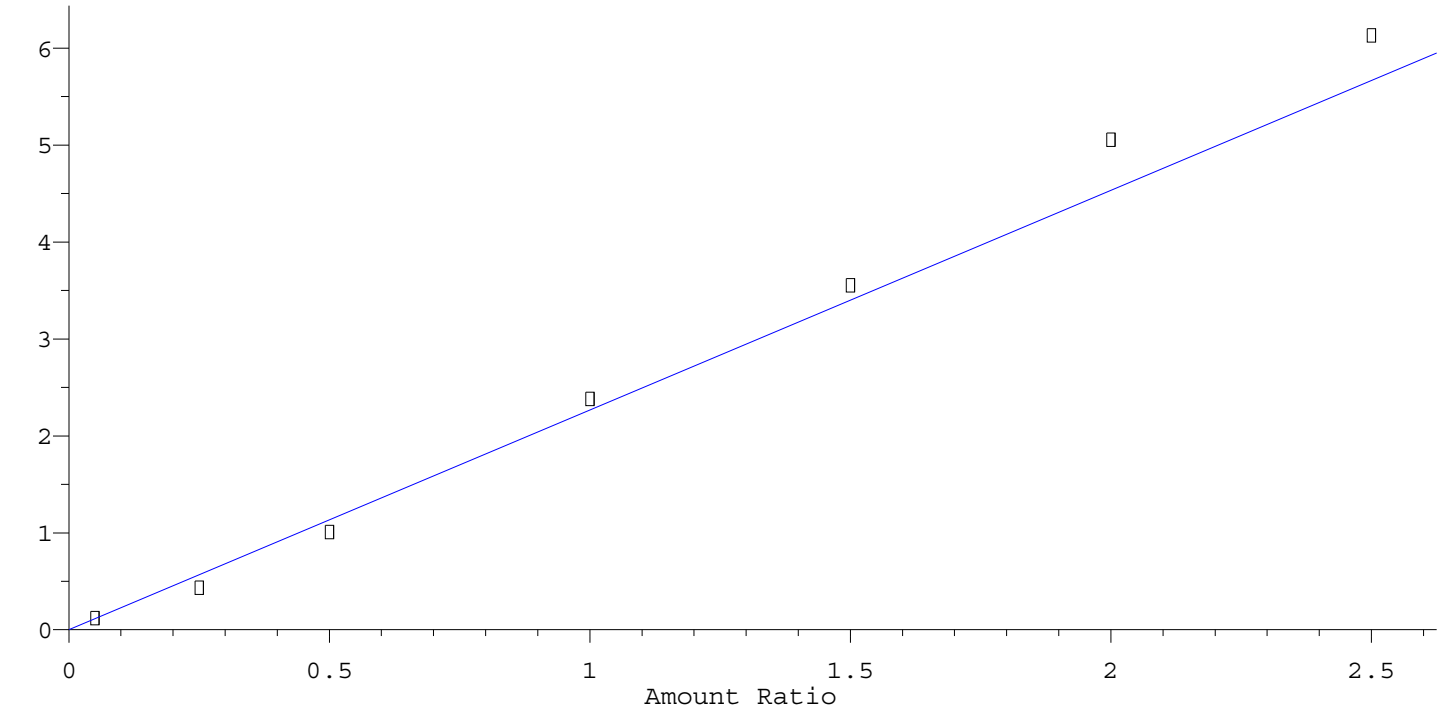
R = 8.525e-002 A*A + 1.633e+000 A - 2.568e-002
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a)

SURR2Flphenol

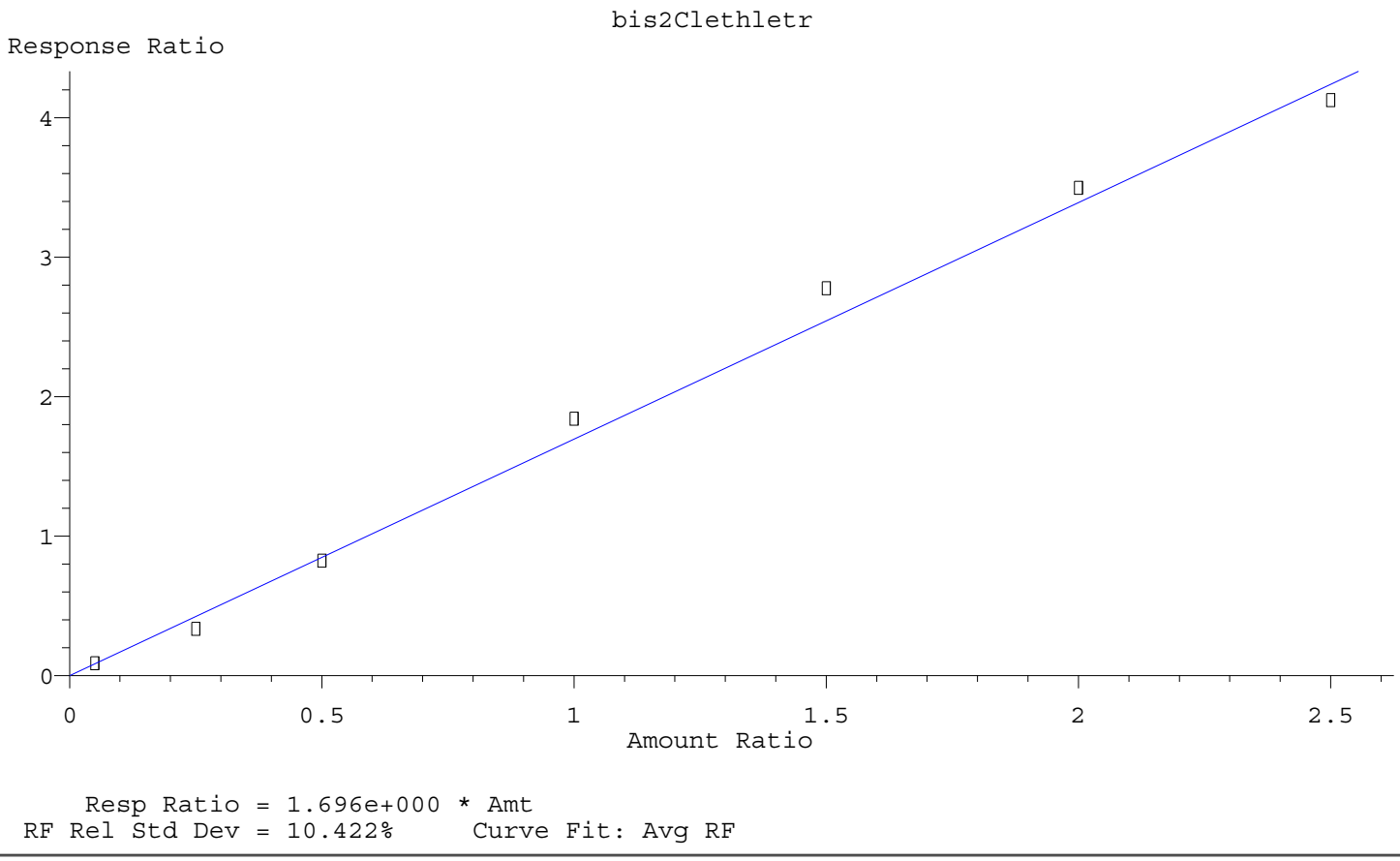


Resp Ratio = 5.701e-001 * Amt
RF Rel Std Dev = 12.947% Curve Fit: Avg RF

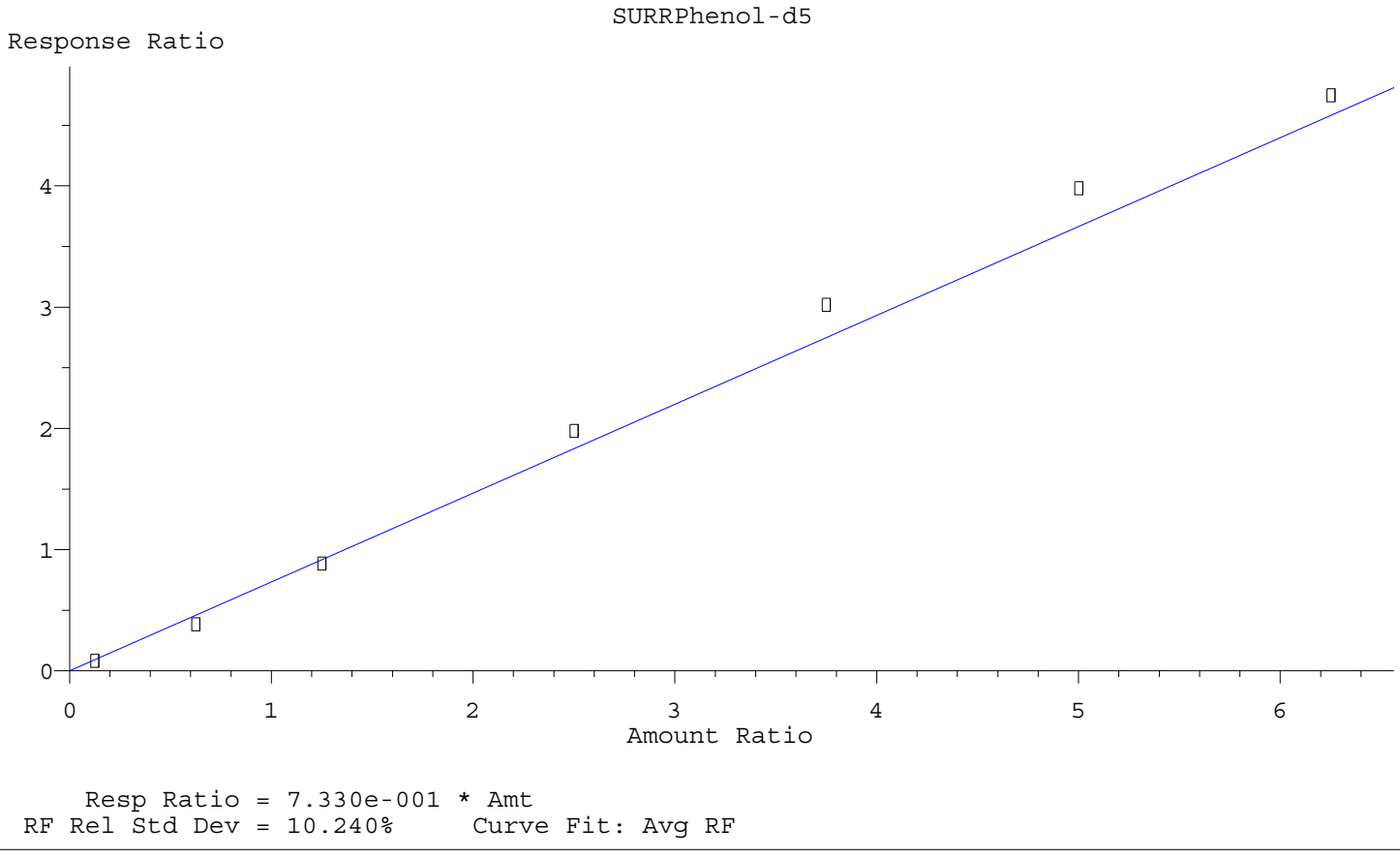
Aniline



Resp Ratio = 2.266e+000 * Amt
RF Rel Std Dev = 12.591% Curve Fit: Avg RF

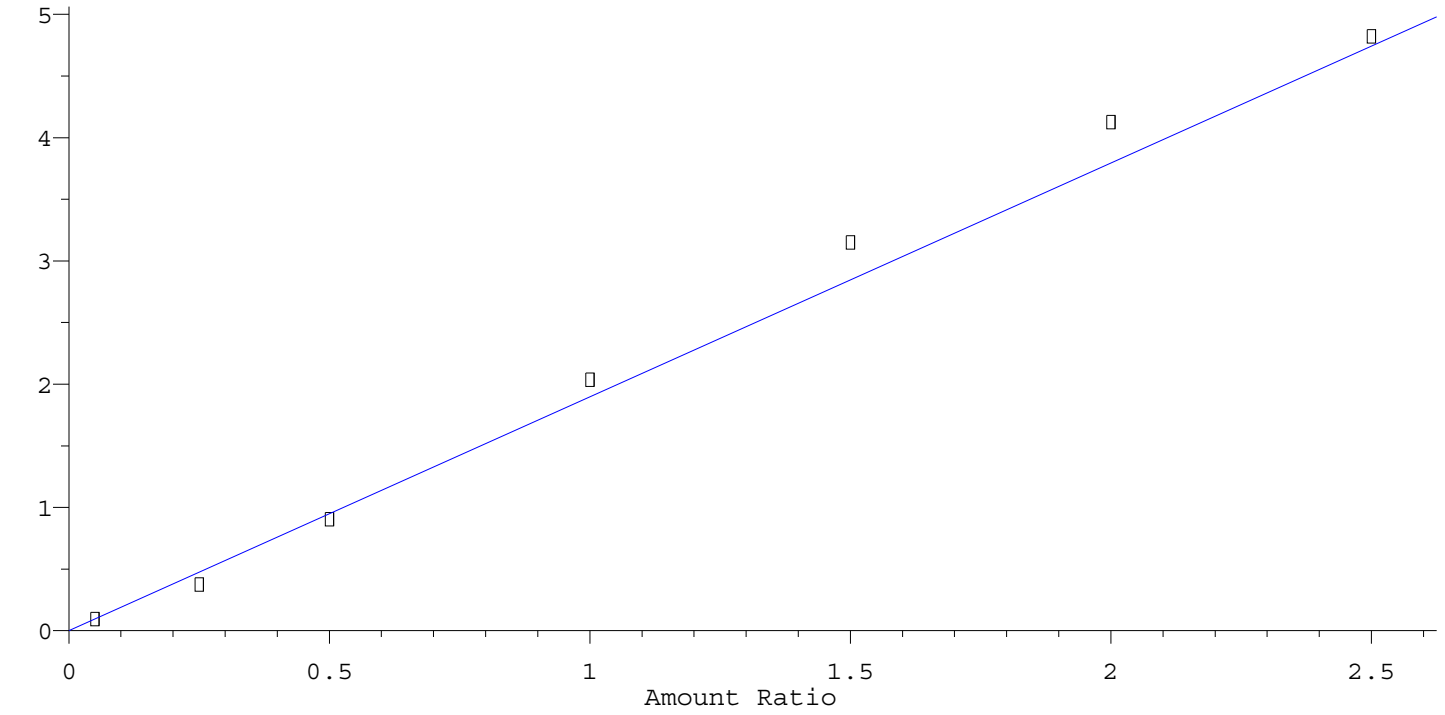


Resp Ratio = 1.696e+000 * Amt
RF Rel Std Dev = 10.422% Curve Fit: Avg RF



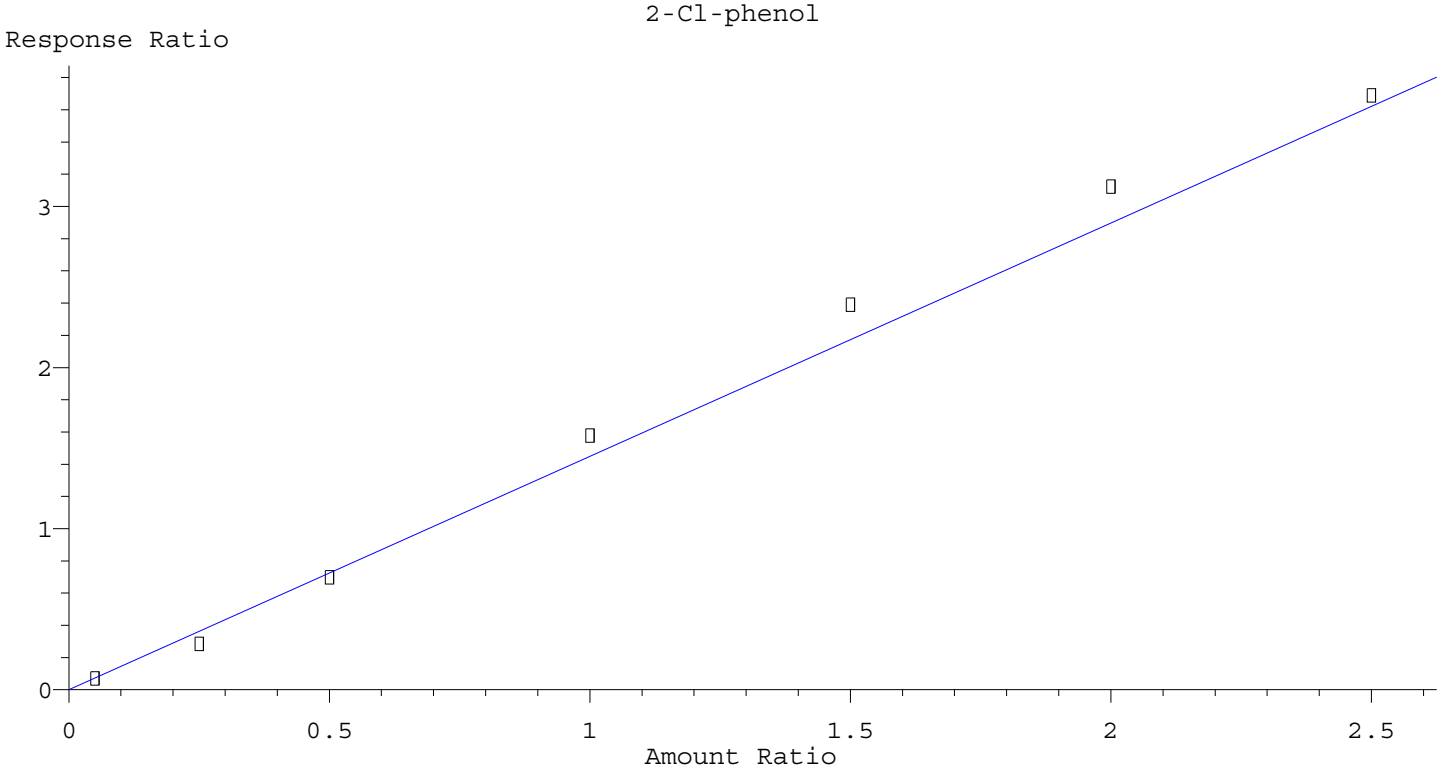
Resp Ratio = 7.330e-001 * Amt
RF Rel Std Dev = 10.240% Curve Fit: Avg RF

Phenol

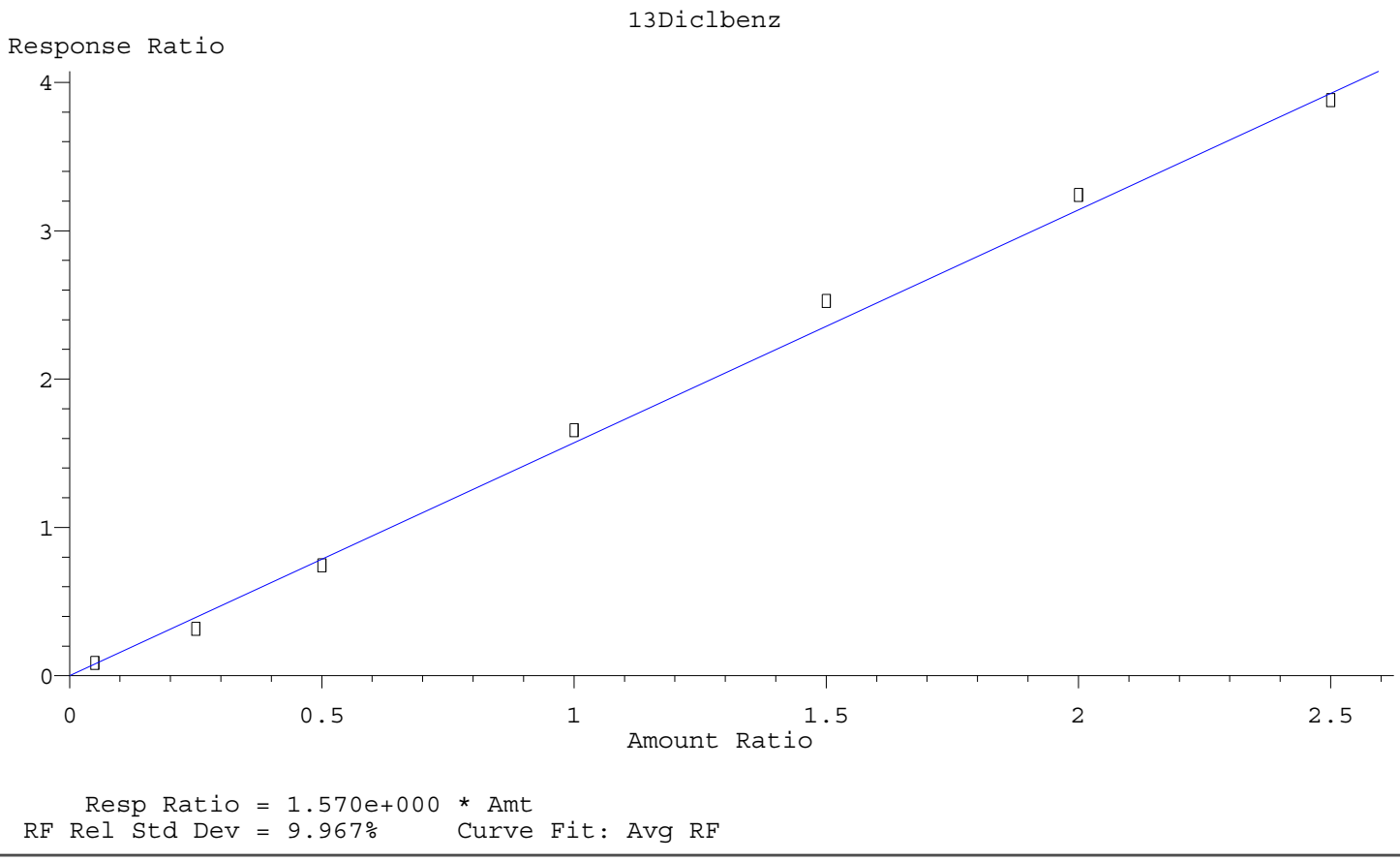


Resp Ratio = 1.897e+000 * Amt
RF Rel Std Dev = 11.032% Curve Fit: Avg RF

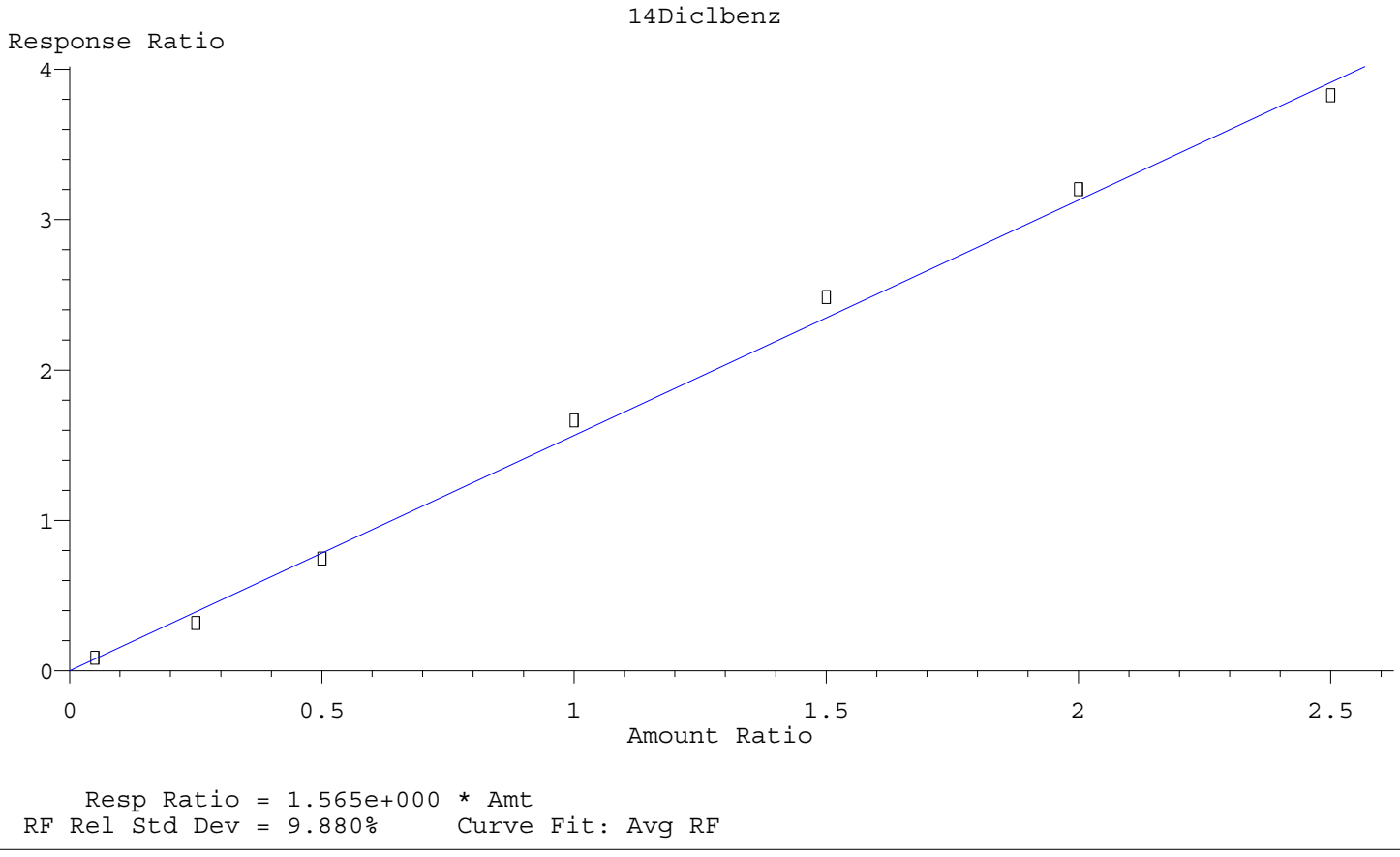
2-Cl-phenol



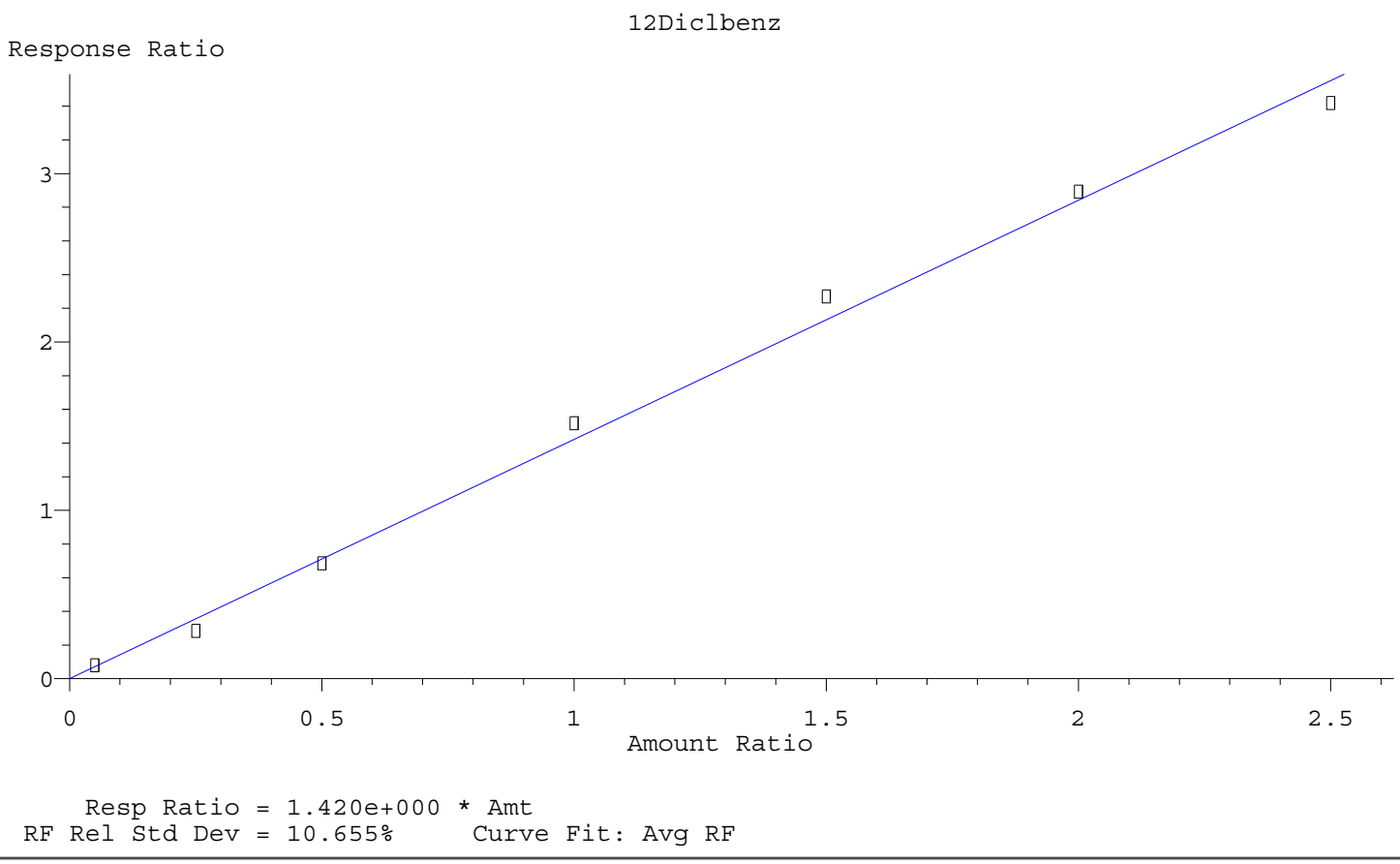
Resp Ratio = 1.448e+000 * Amt
RF Rel Std Dev = 11.039% Curve Fit: Avg RF



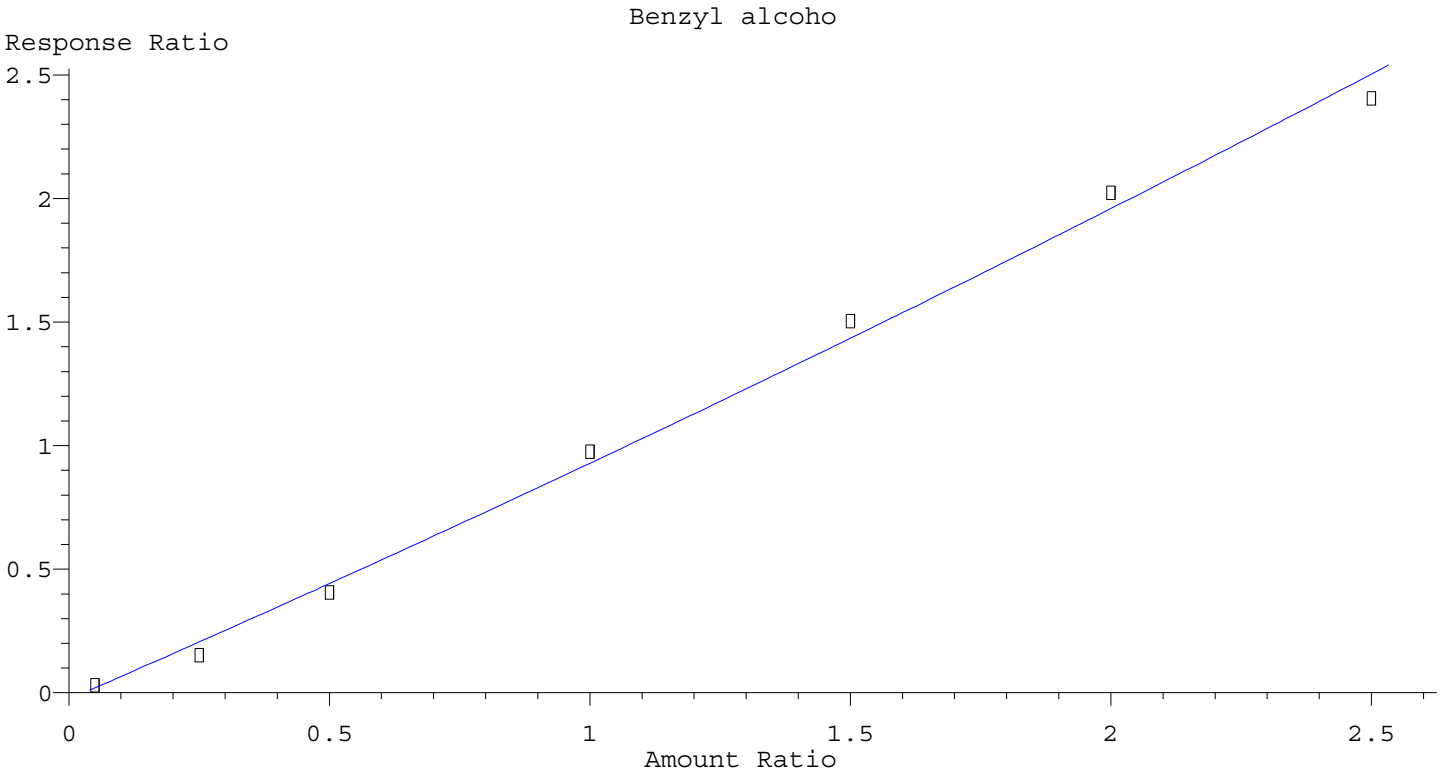
Resp Ratio = 1.570e+000 * Amt
RF Rel Std Dev = 9.967% Curve Fit: Avg RF



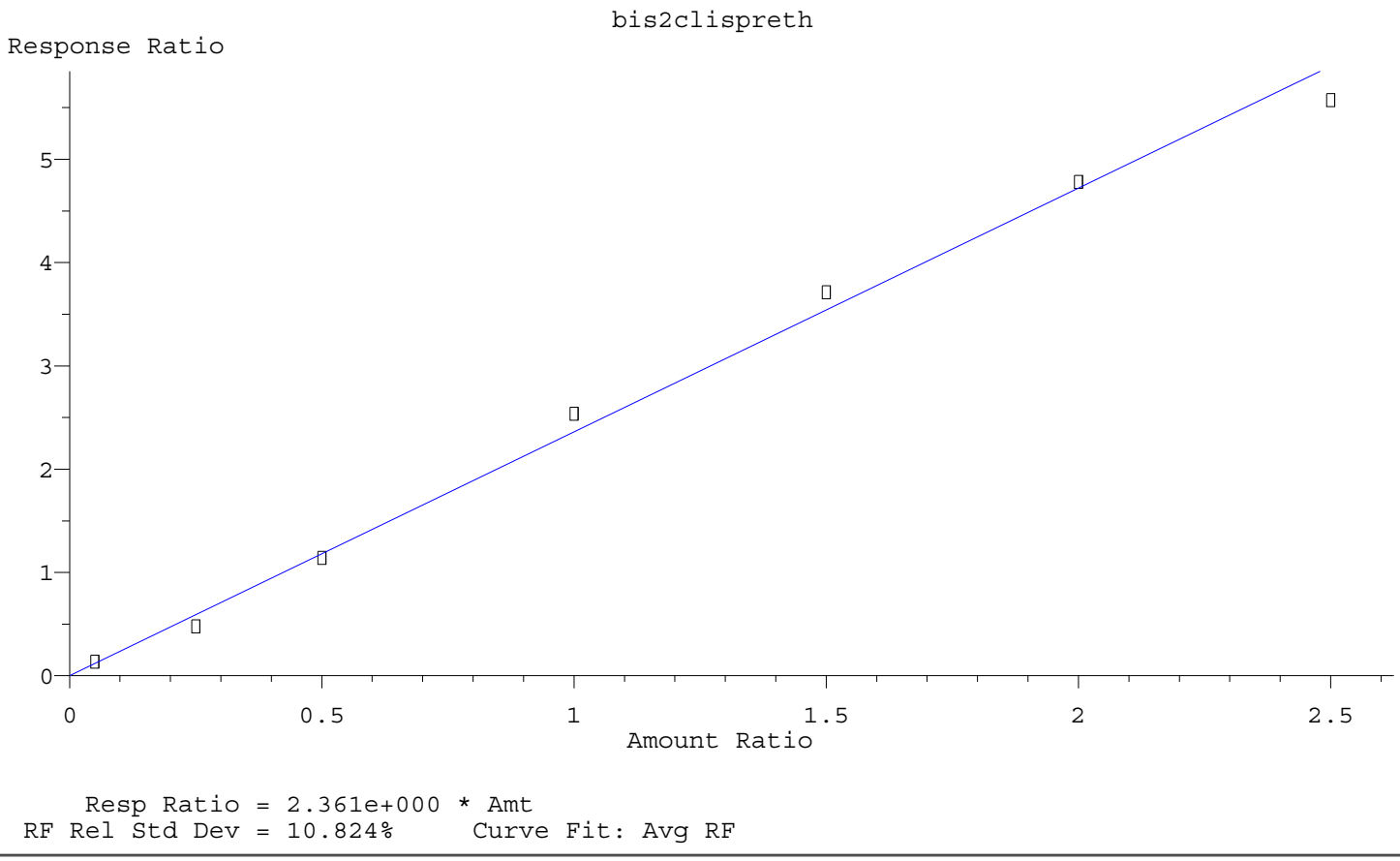
Resp Ratio = 1.565e+000 * Amt
RF Rel Std Dev = 9.880% Curve Fit: Avg RF



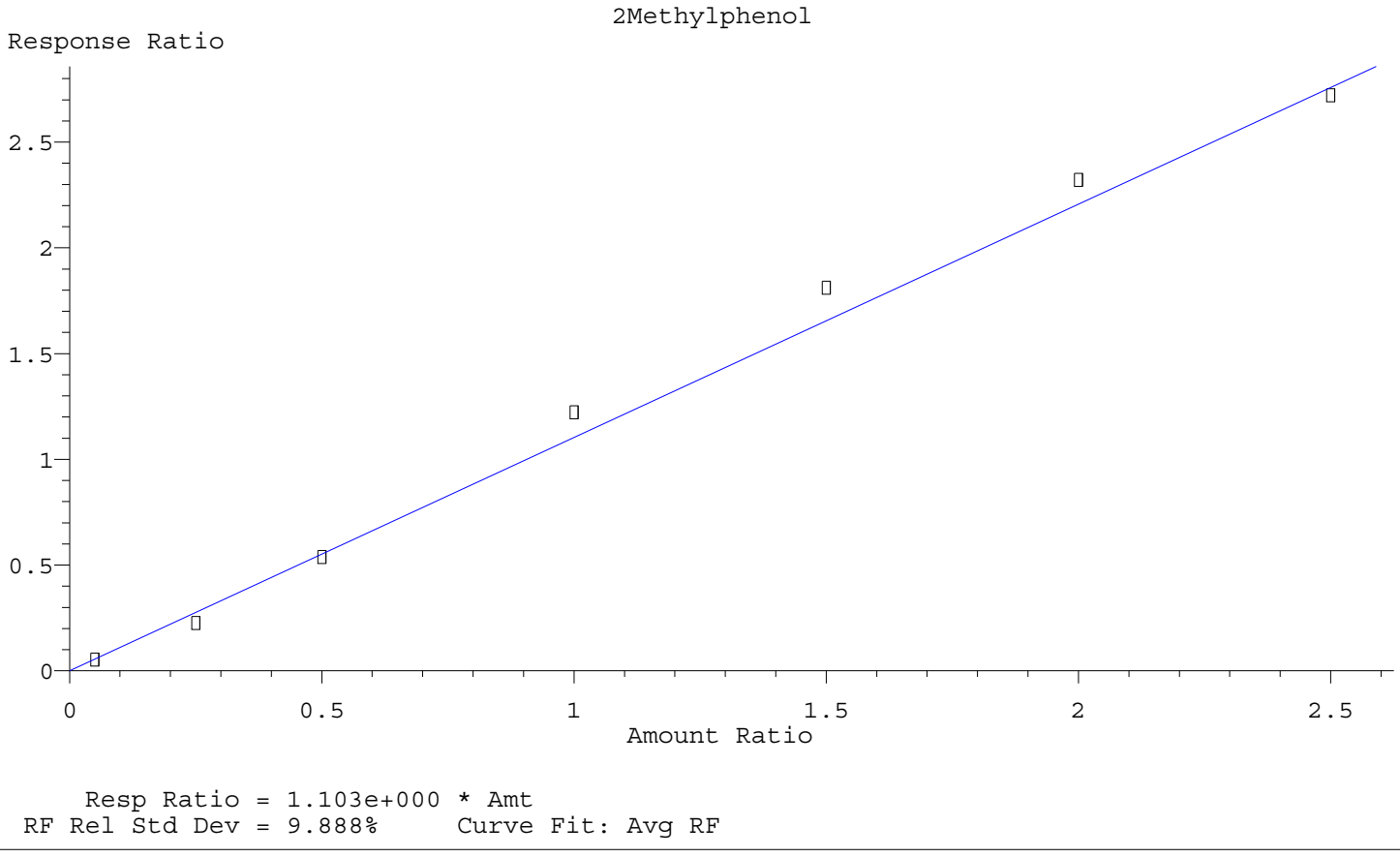
Resp Ratio = 1.420e+000 * Amt
RF Rel Std Dev = 10.655% Curve Fit: Avg RF



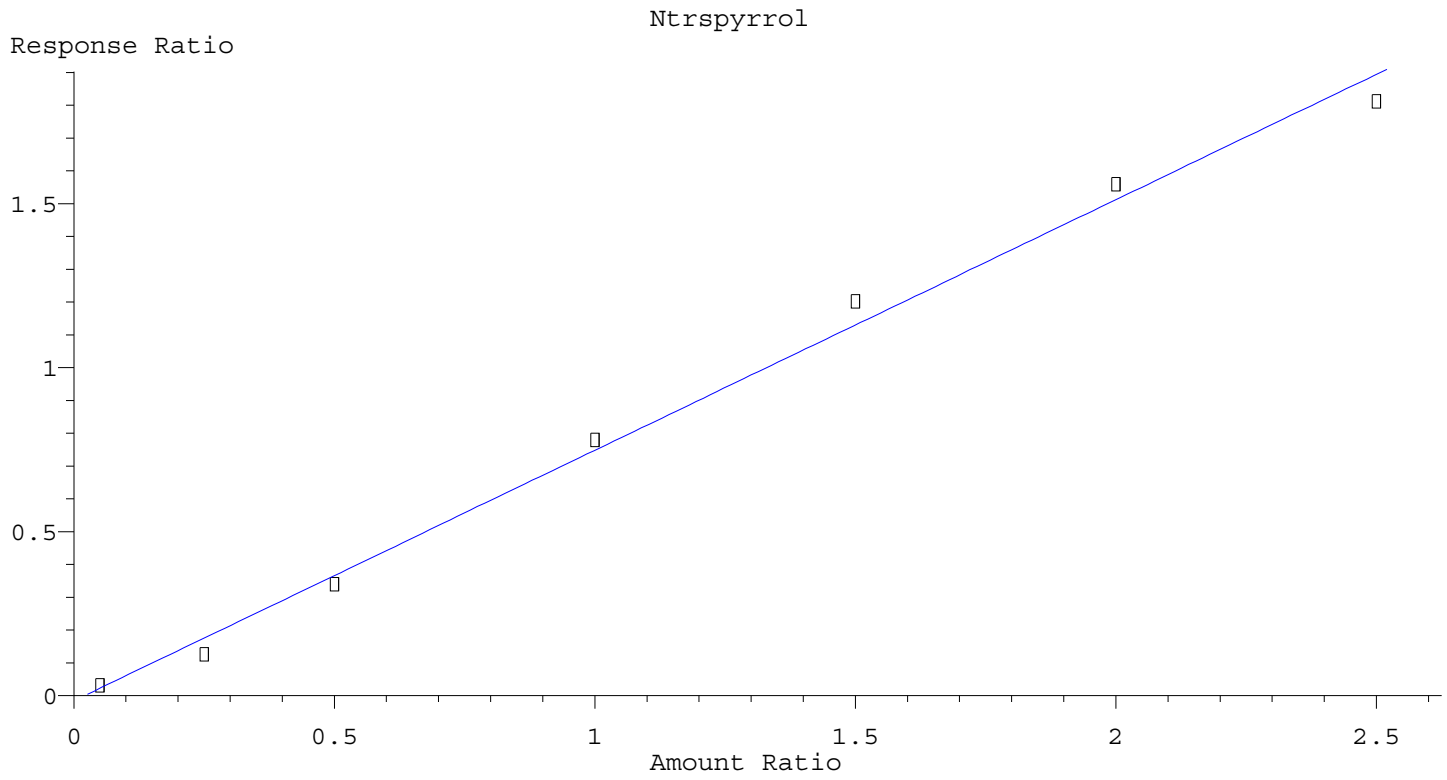
R = 3.786e-002 A*A + 9.171e-001 A - 2.640e-002
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a)



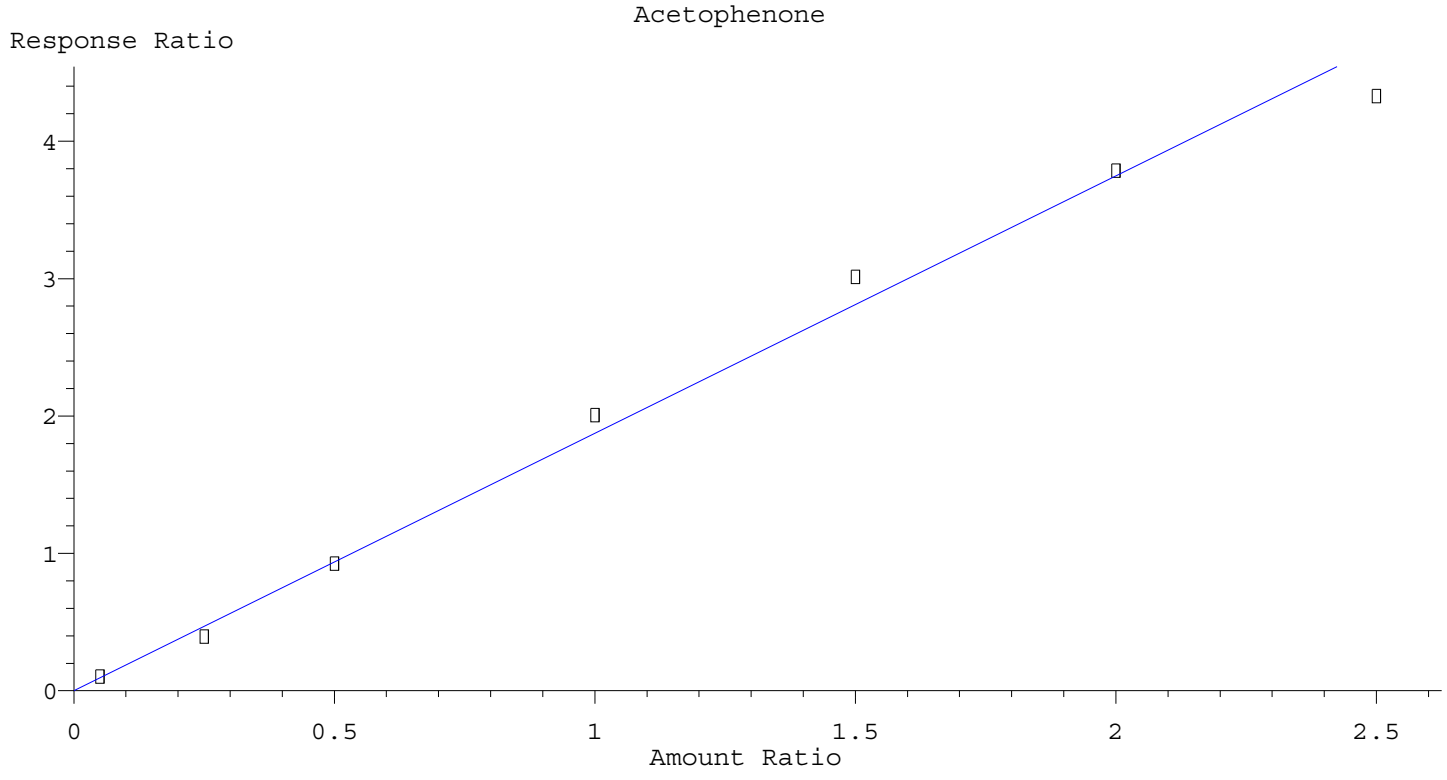
Resp Ratio = 2.361e+000 * Amt
RF Rel Std Dev = 10.824% Curve Fit: Avg RF



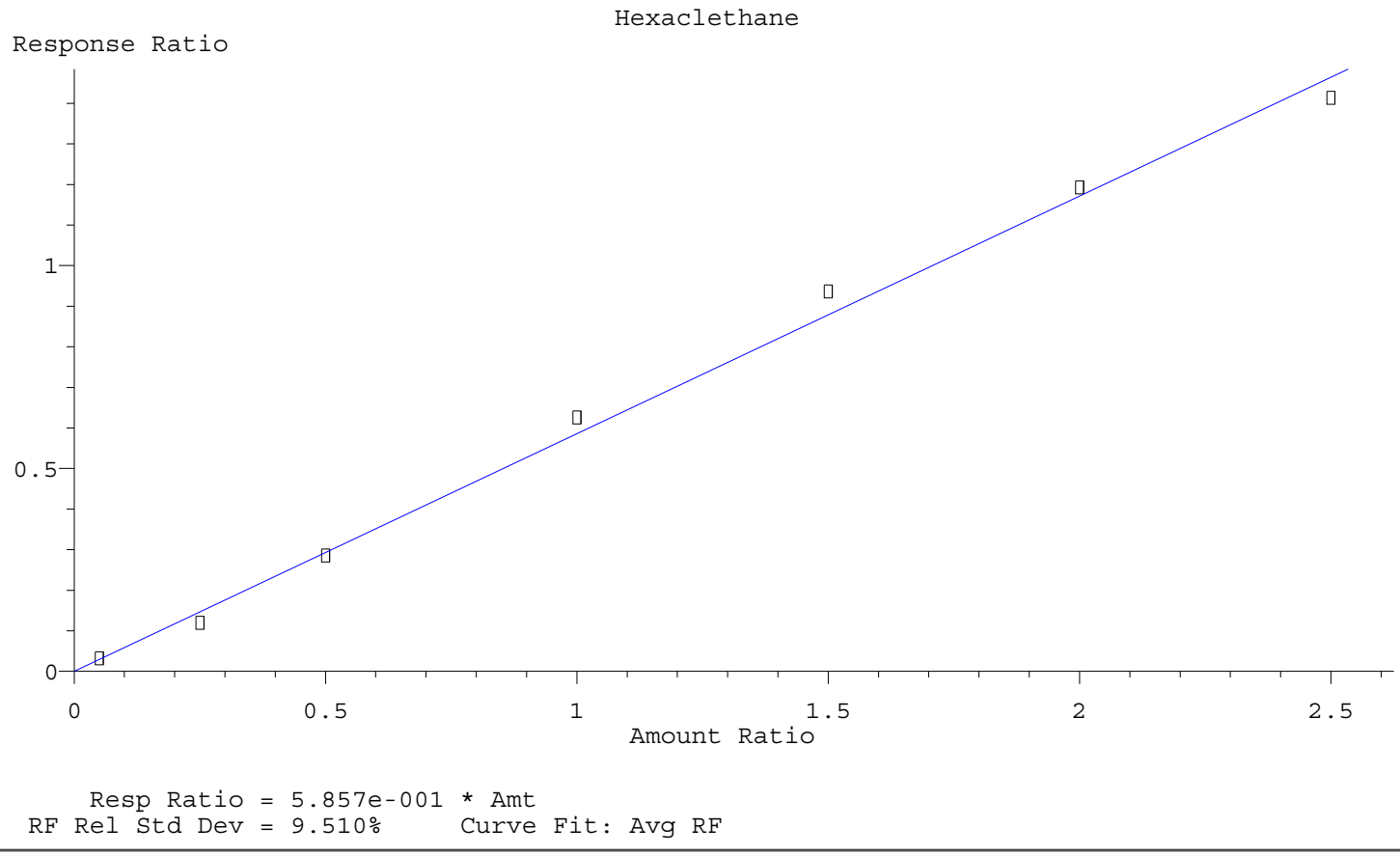
Resp Ratio = 1.103e+000 * Amt
RF Rel Std Dev = 9.888% Curve Fit: Avg RF



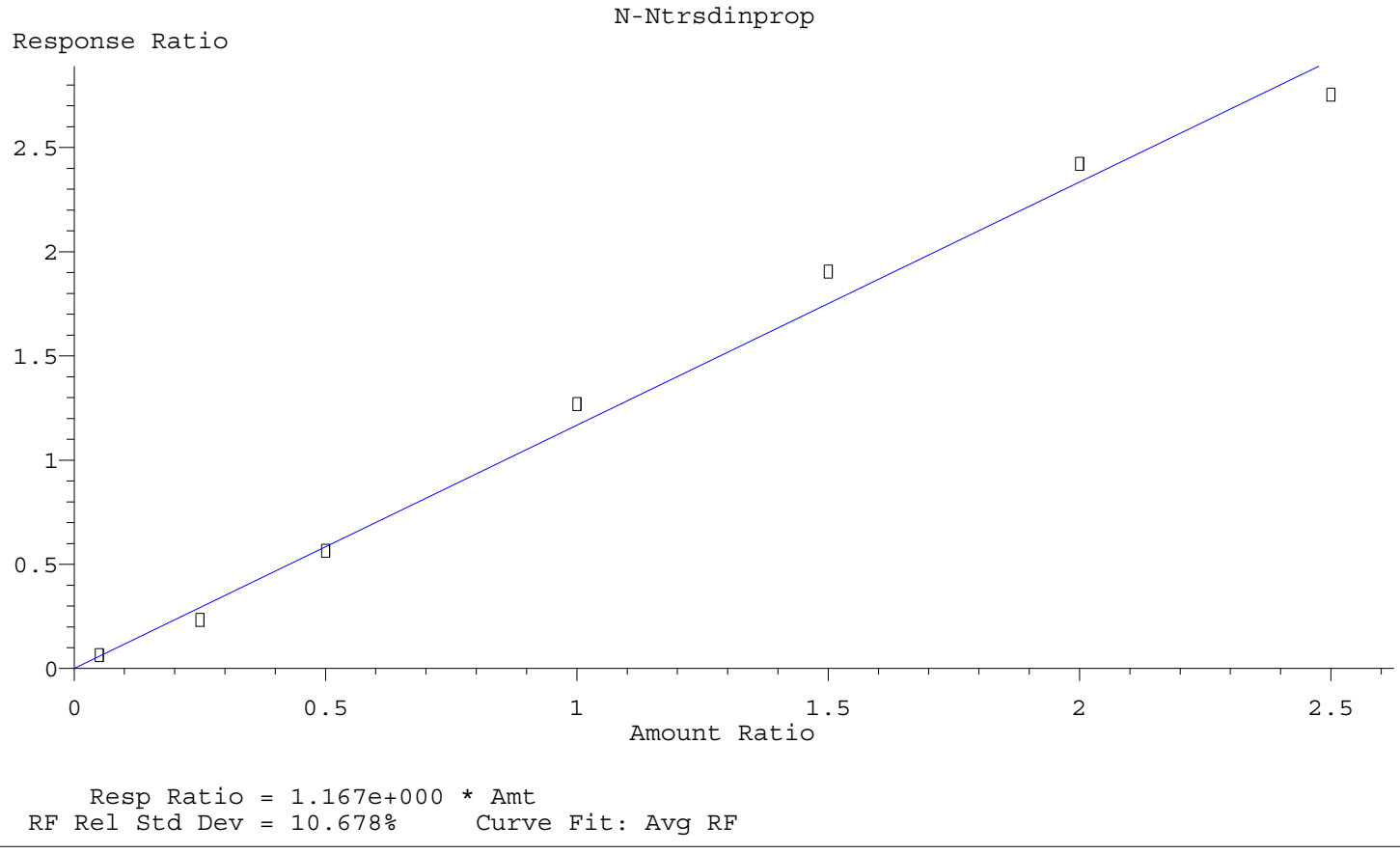
R = 2.375e-004 A*A + 7.633e-001 A - 1.557e-002
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a)



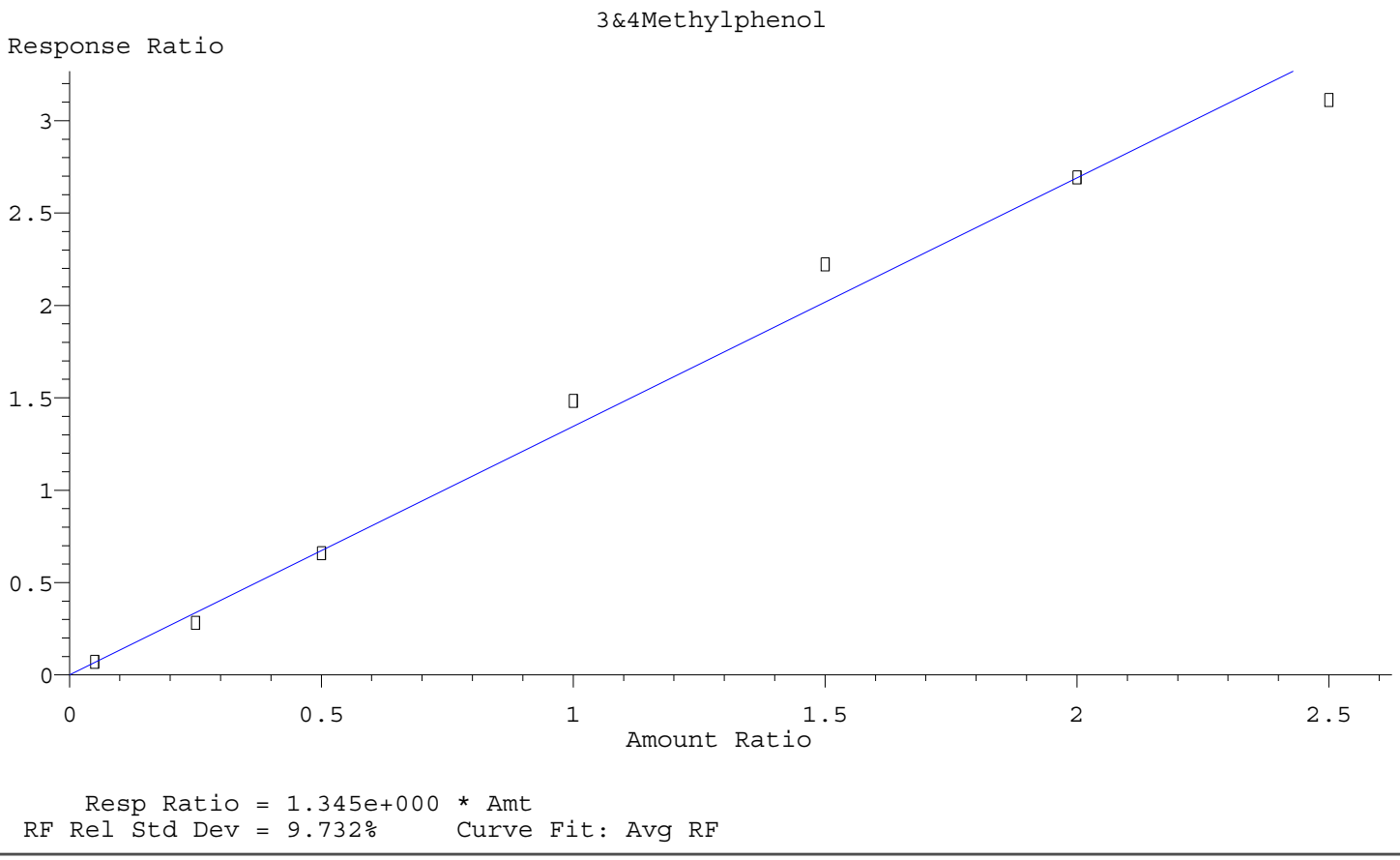
Resp Ratio = 1.875e+000 * Amt
RF Rel Std Dev = 9.367% Curve Fit: Avg RF



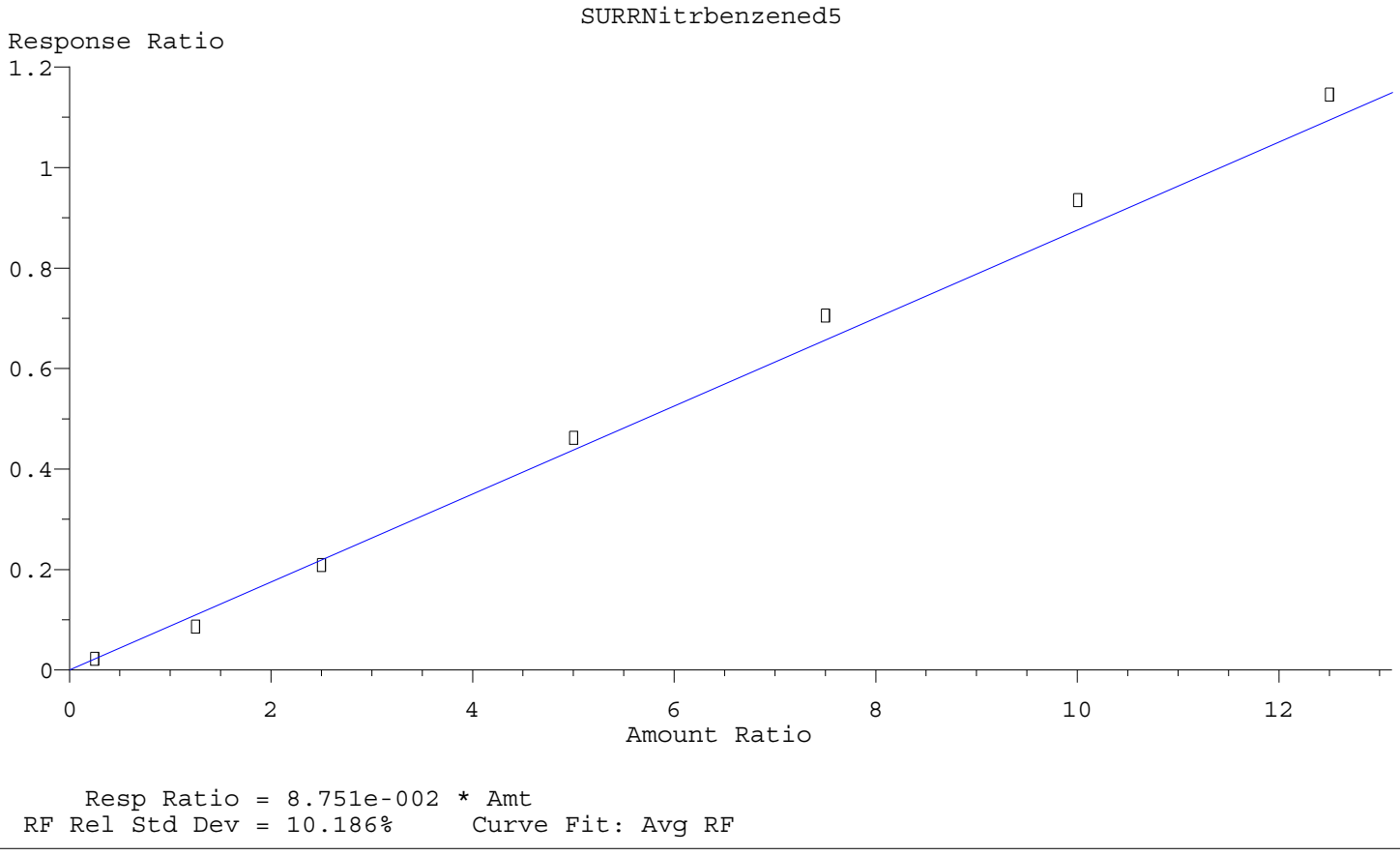
Resp Ratio = 5.857e-001 * Amt
RF Rel Std Dev = 9.510% Curve Fit: Avg RF



Resp Ratio = 1.167e+000 * Amt
RF Rel Std Dev = 10.678% Curve Fit: Avg RF

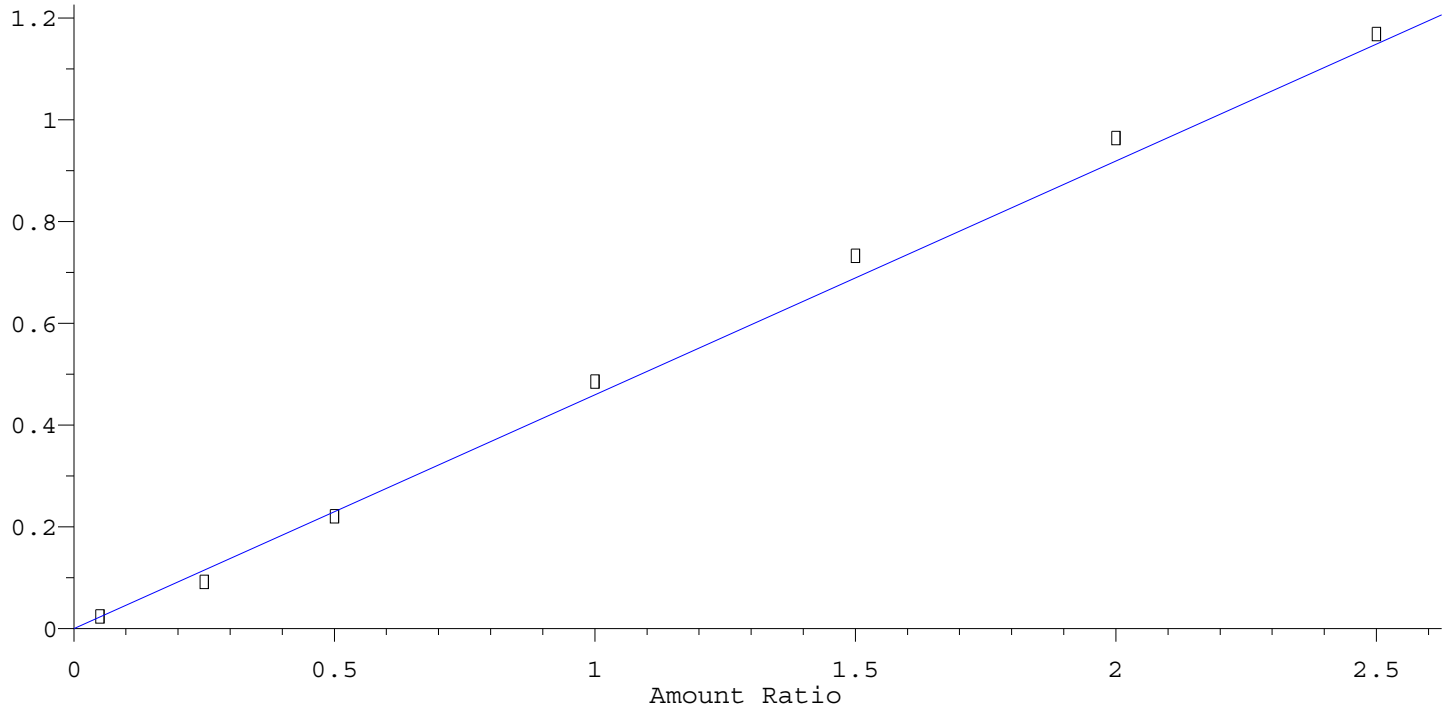


Resp Ratio = 1.345e+000 * Amt
RF Rel Std Dev = 9.732% Curve Fit: Avg RF



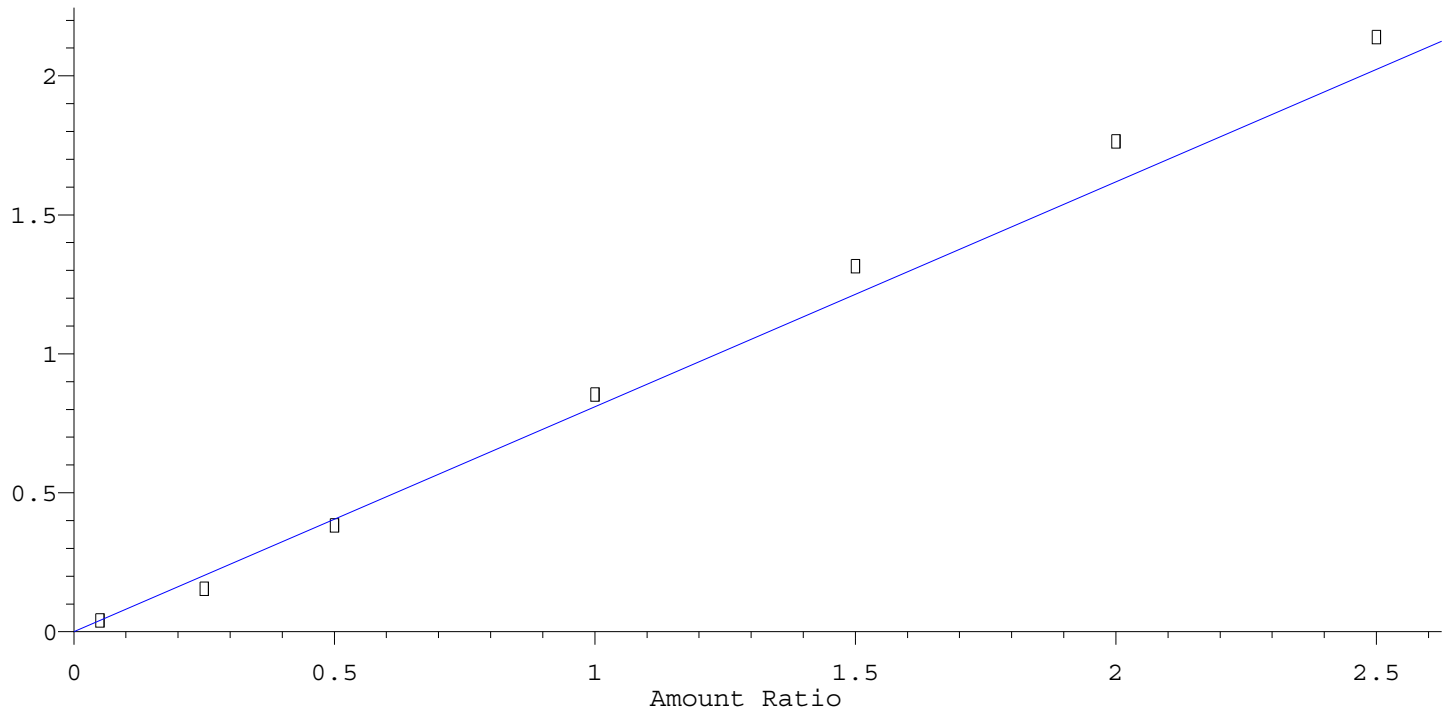
Resp Ratio = 8.751e-002 * Amt
RF Rel Std Dev = 10.186% Curve Fit: Avg RF

Nitrobenzene

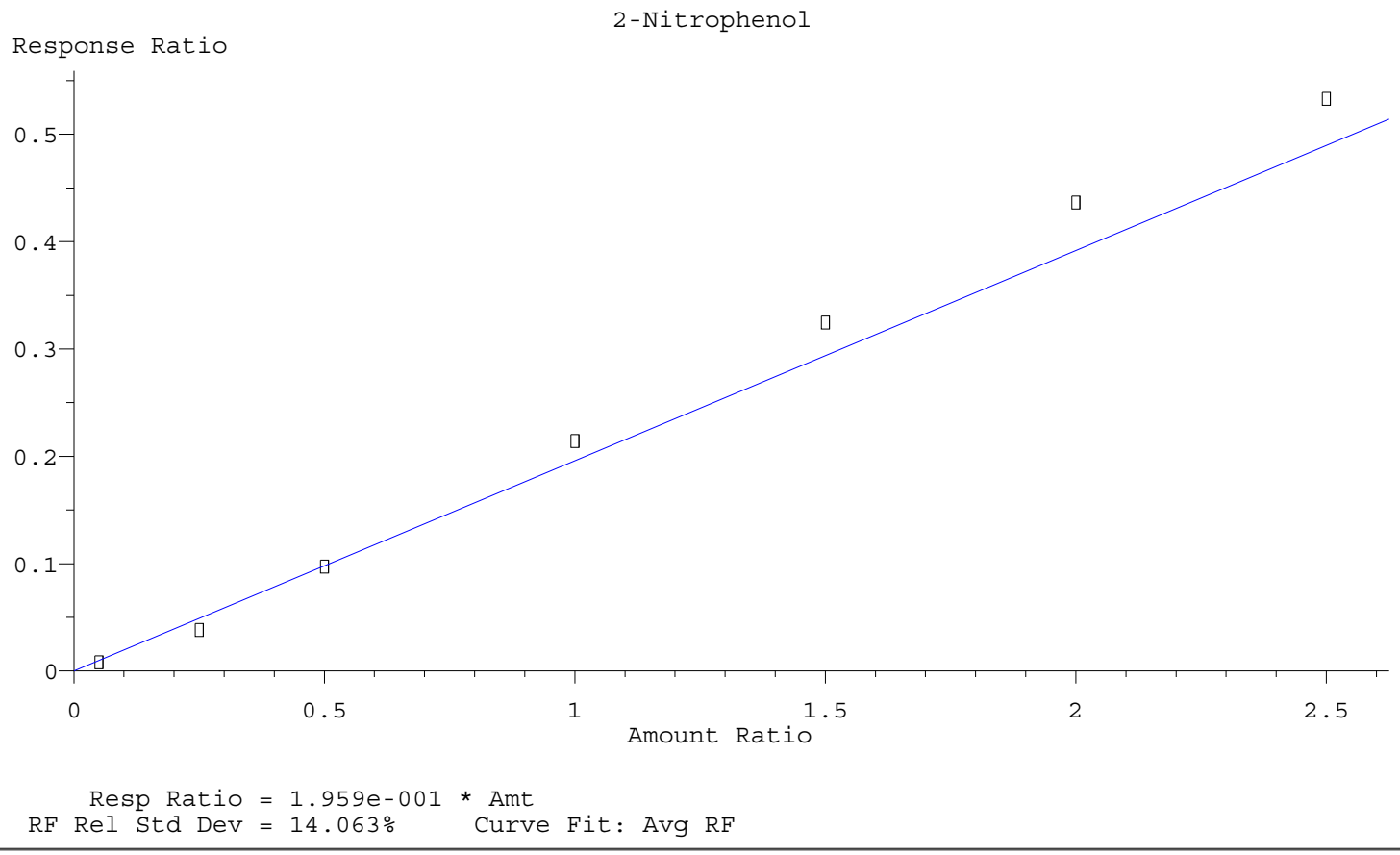


Resp Ratio = 4.593e-001 * Amt
RF Rel Std Dev = 9.440% Curve Fit: Avg RF

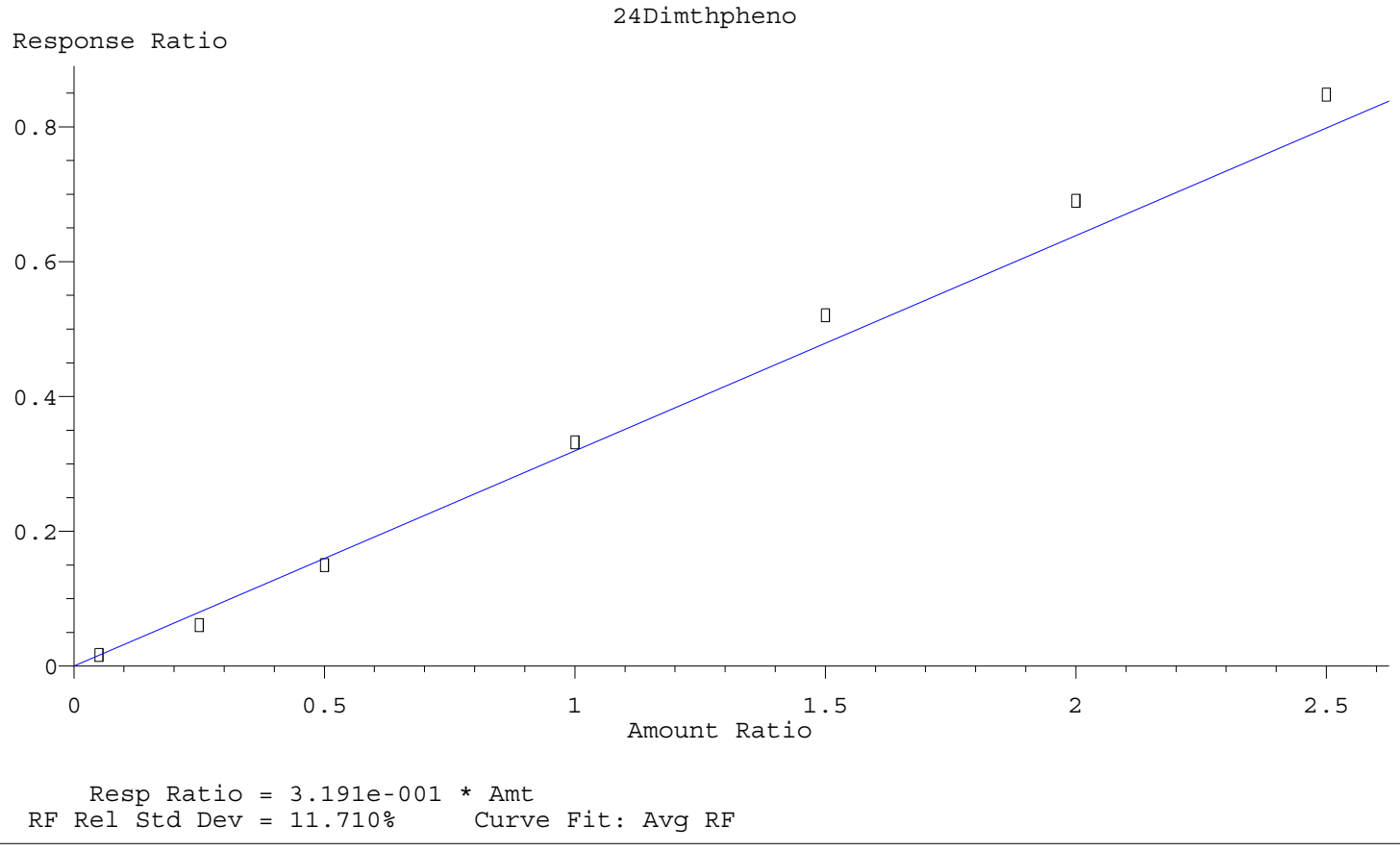
Isophorone



Resp Ratio = 8.092e-001 * Amt
RF Rel Std Dev = 11.644% Curve Fit: Avg RF

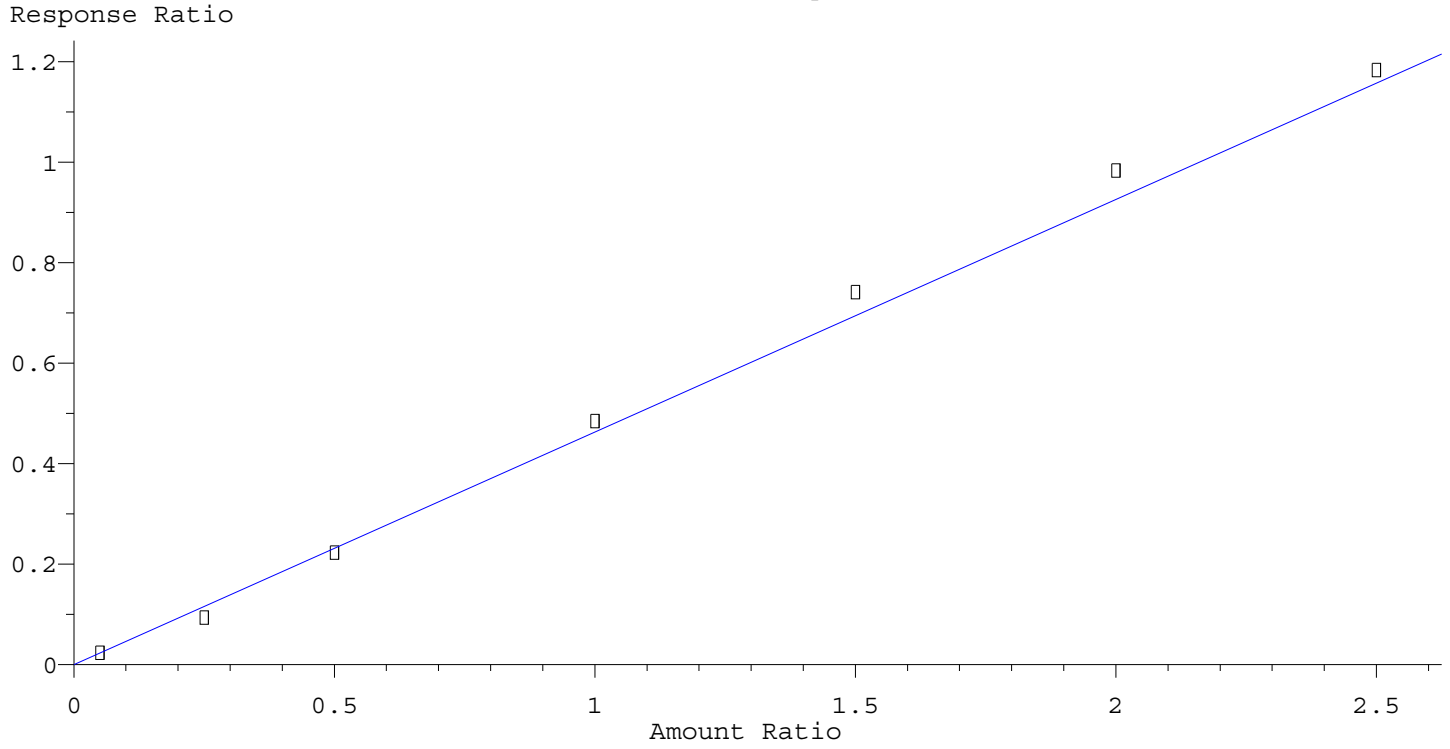


Resp Ratio = 1.959e-001 * Amt
RF Rel Std Dev = 14.063% Curve Fit: Avg RF



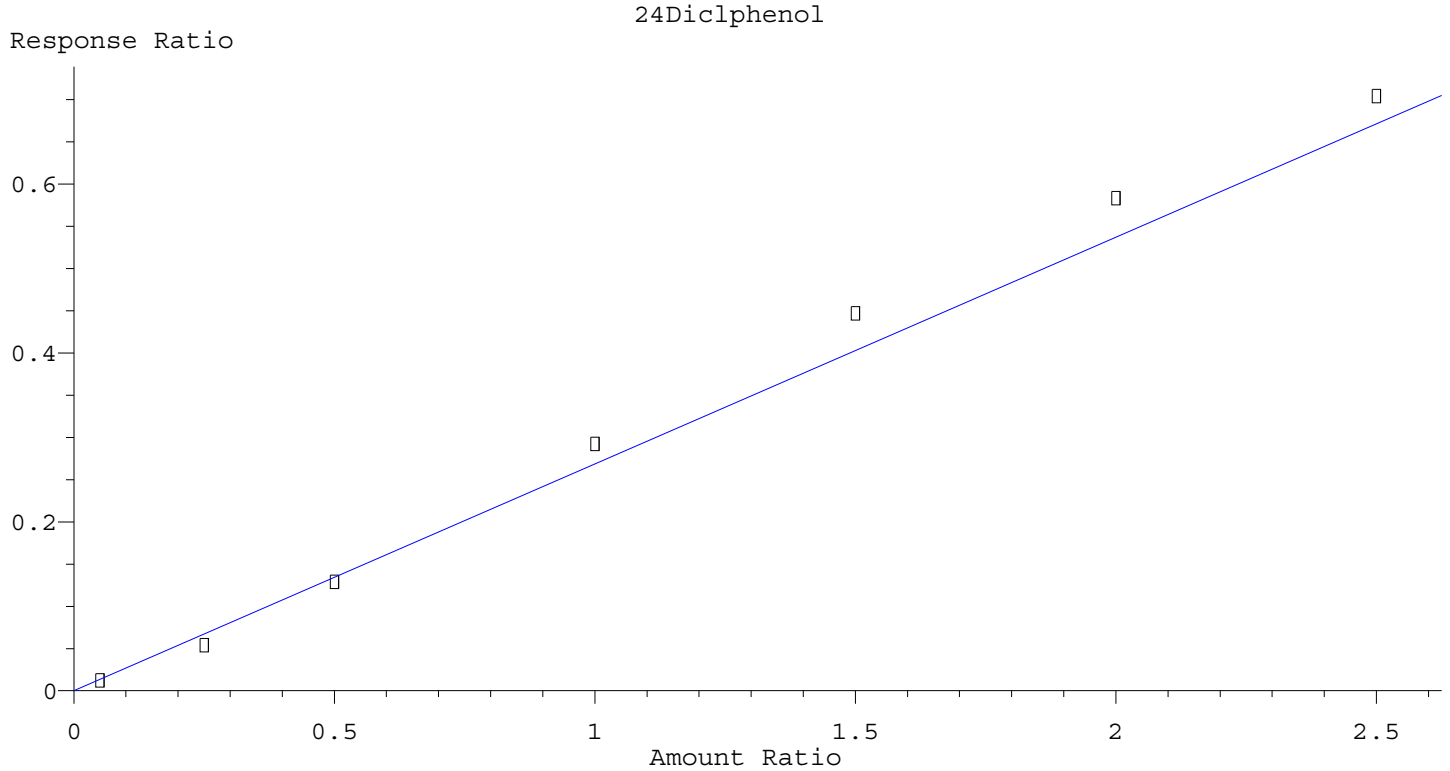
Resp Ratio = 3.191e-001 * Amt
RF Rel Std Dev = 11.710% Curve Fit: Avg RF

bis2clethoxym

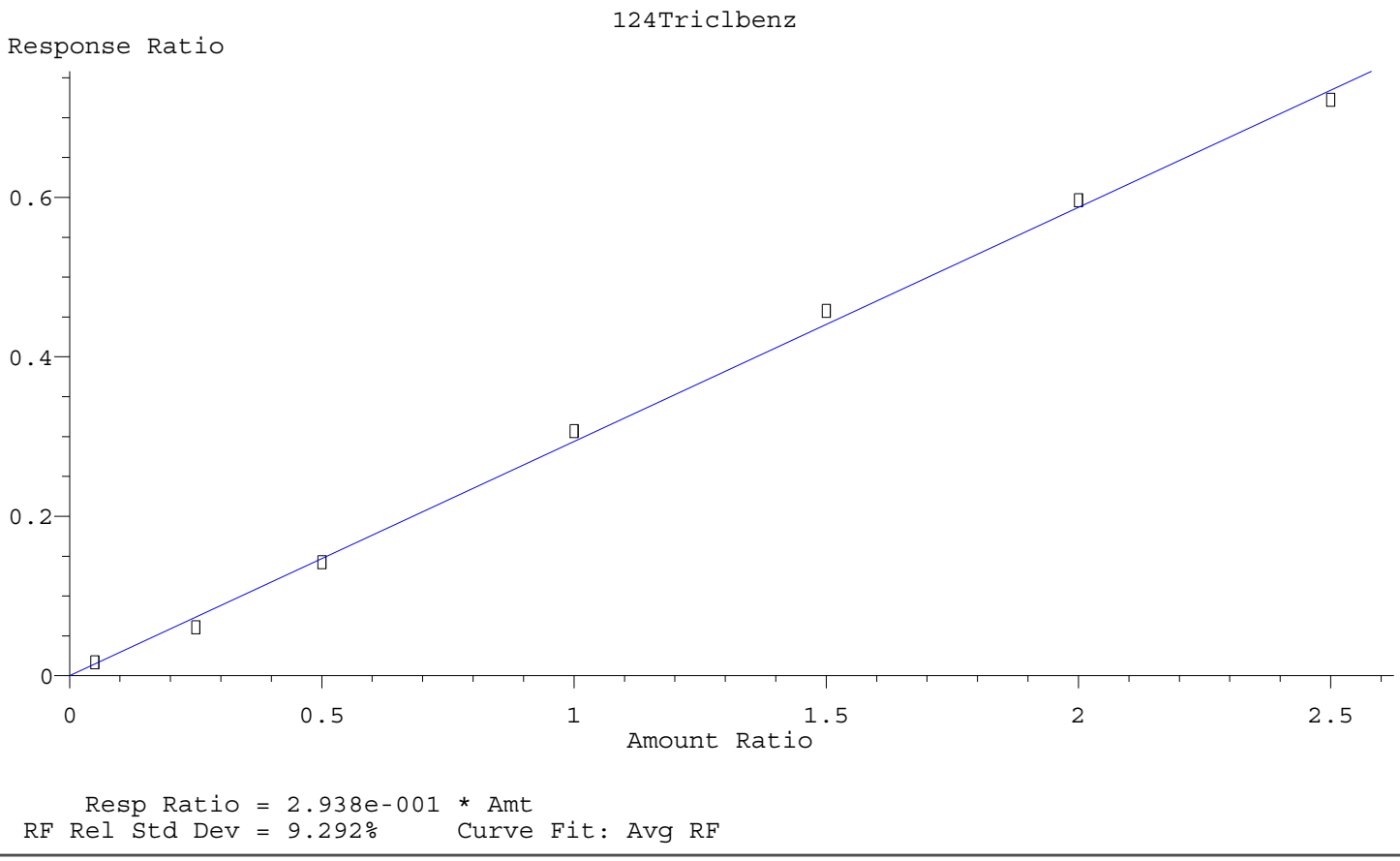


Resp Ratio = 4.629e-001 * Amt
RF Rel Std Dev = 9.217% Curve Fit: Avg RF

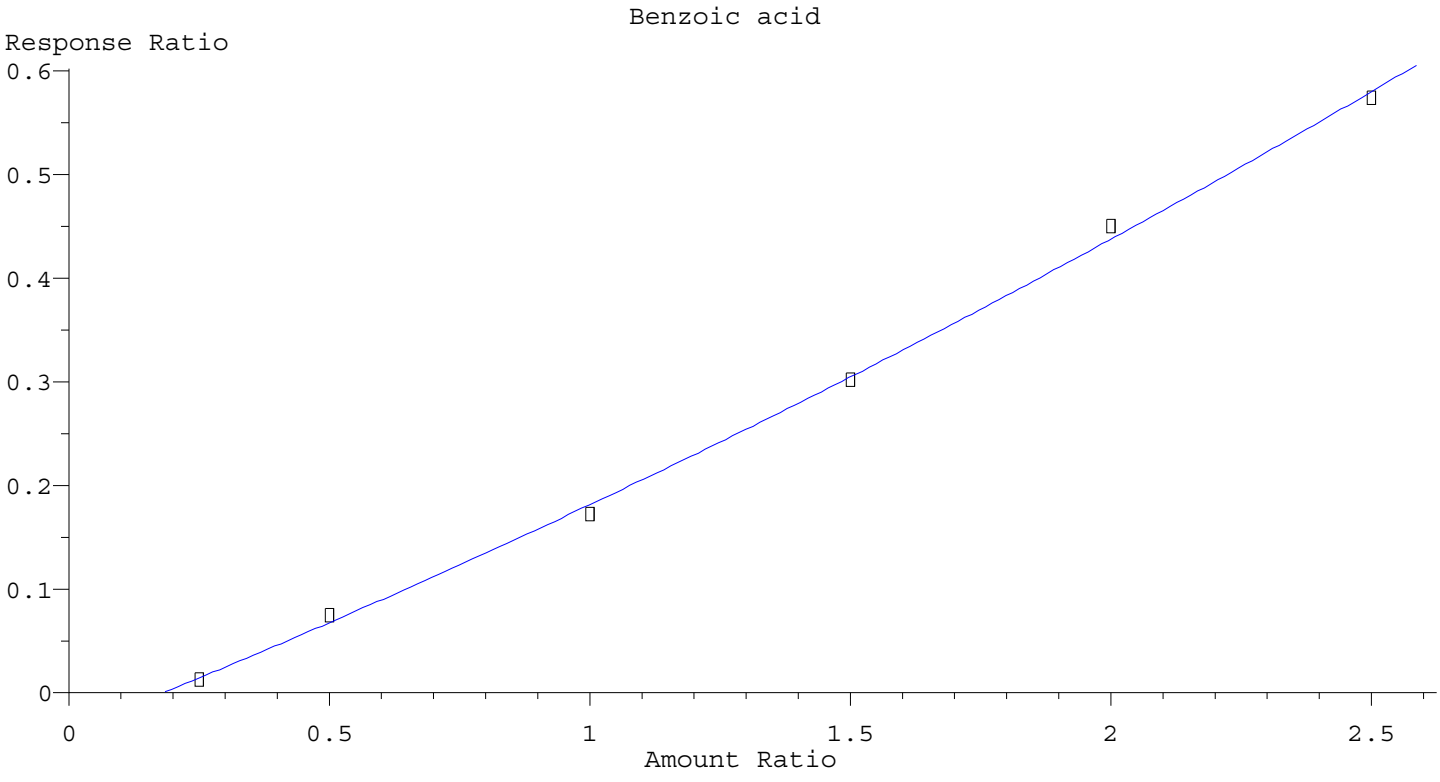
24Diclphenol



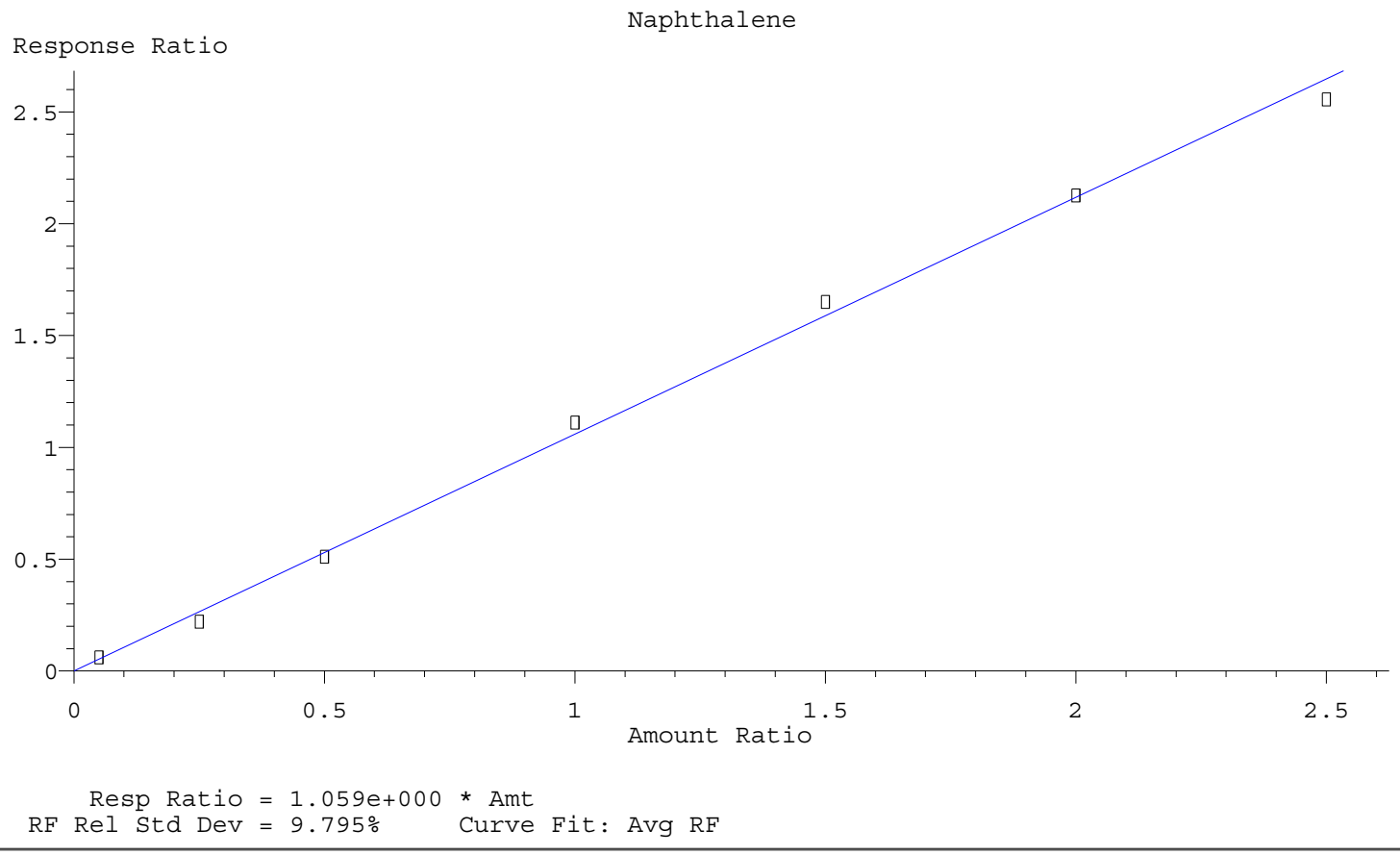
Resp Ratio = 2.684e-001 * Amt
RF Rel Std Dev = 11.565% Curve Fit: Avg RF



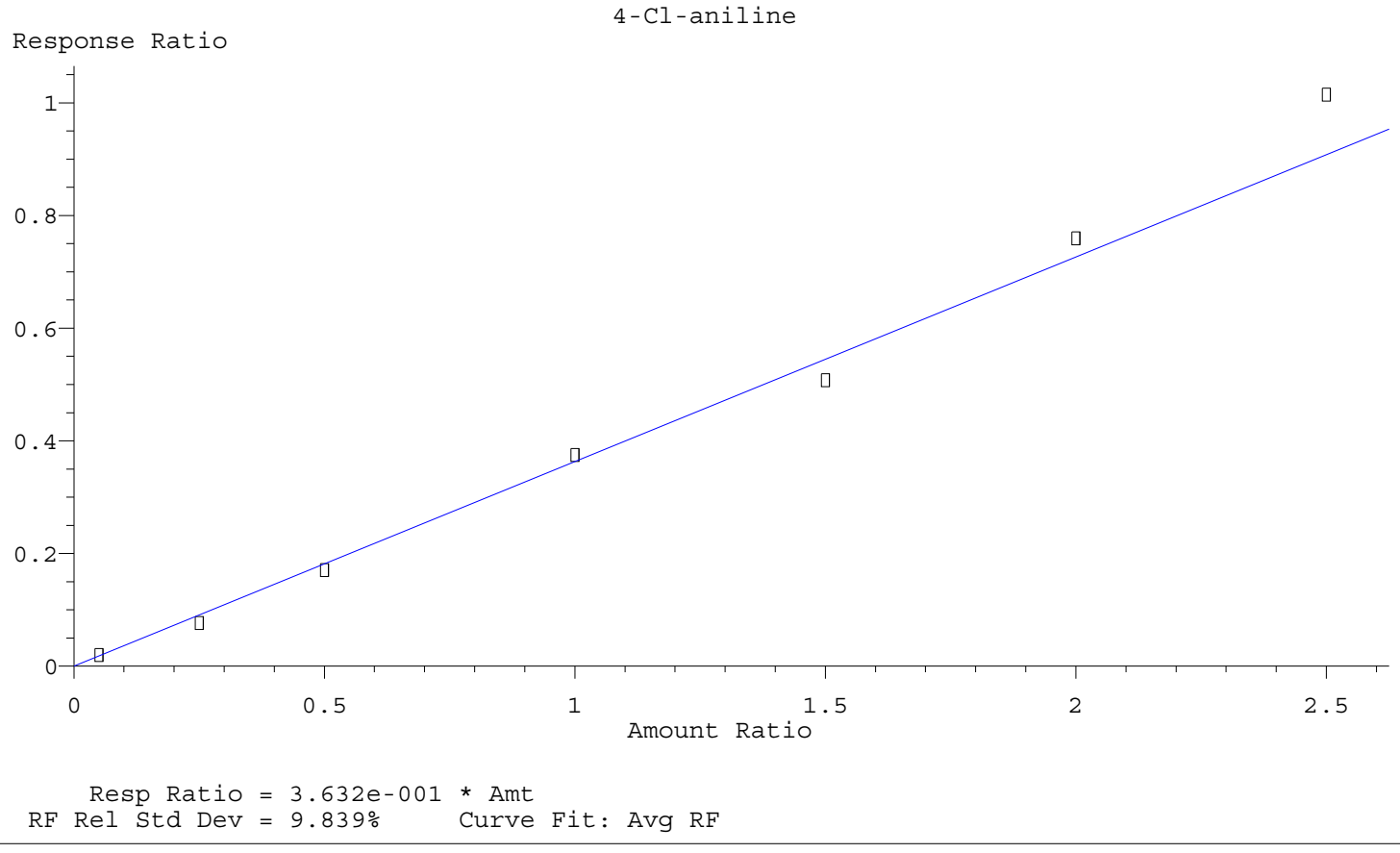
Resp Ratio = 2.938e-001 * Amt
RF Rel Std Dev = 9.292% Curve Fit: Avg RF



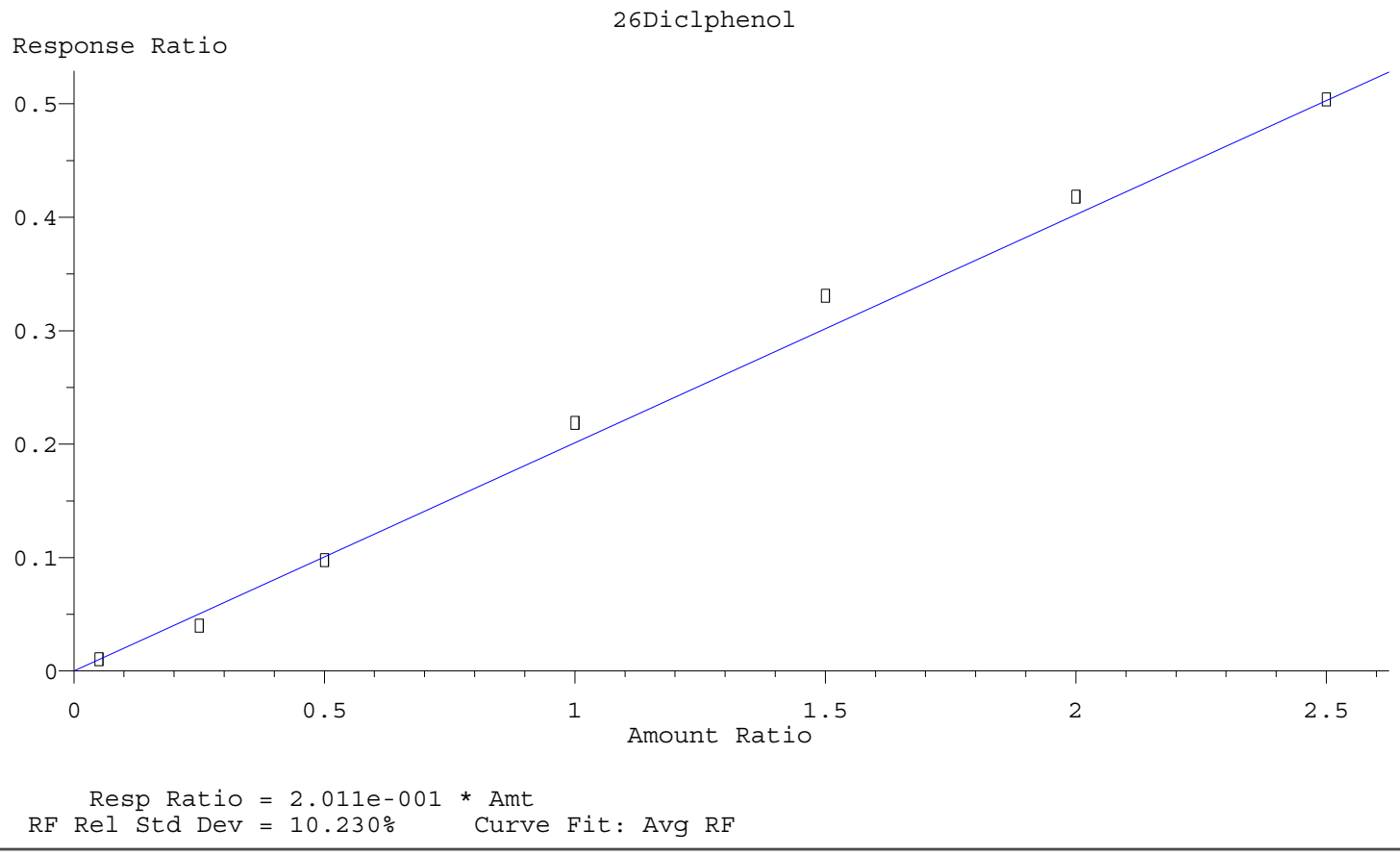
R = 1.902e-002 A*A + 1.991e-001 A - 3.669e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



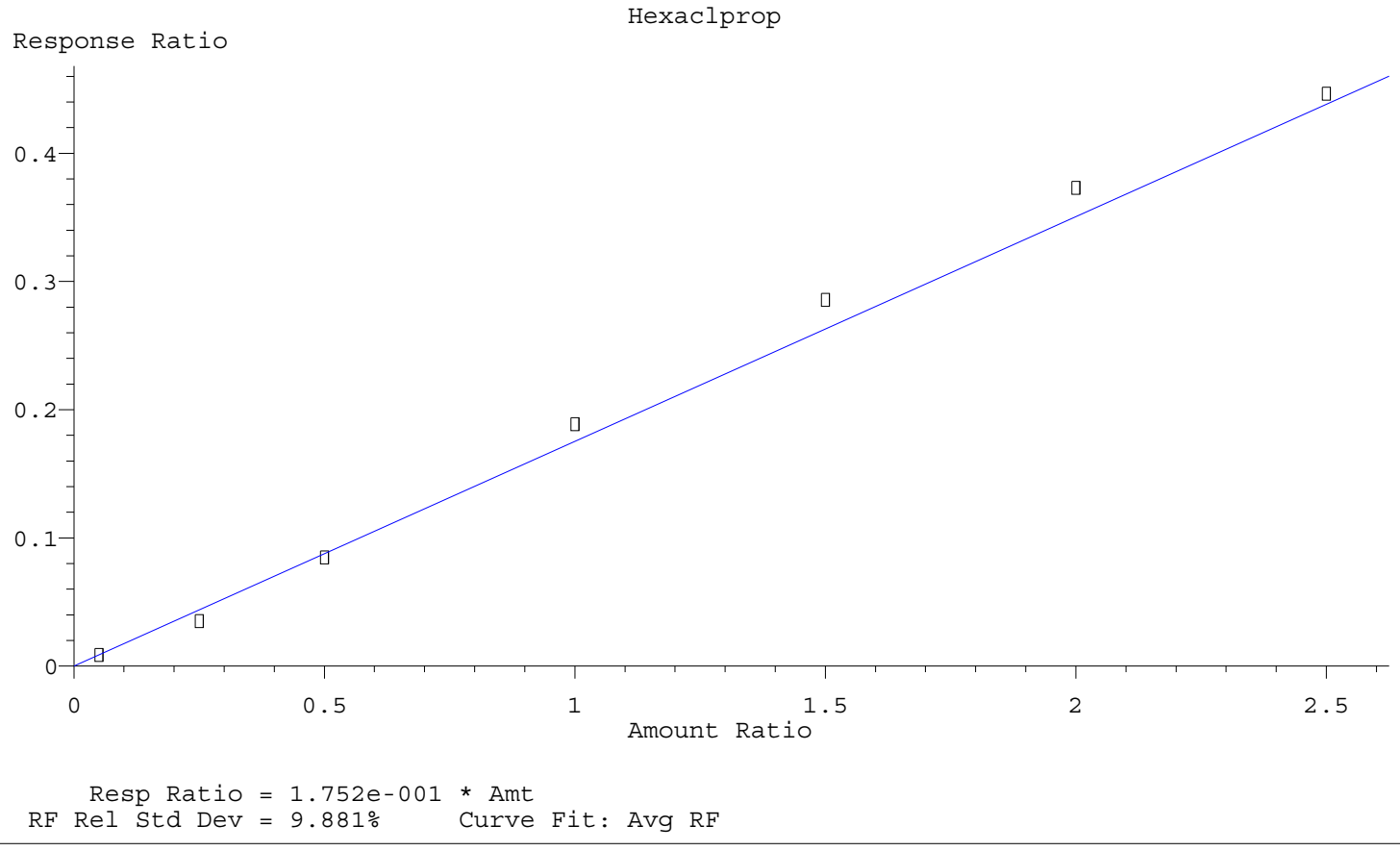
Resp Ratio = 1.059e+000 * Amt
RF Rel Std Dev = 9.795% Curve Fit: Avg RF



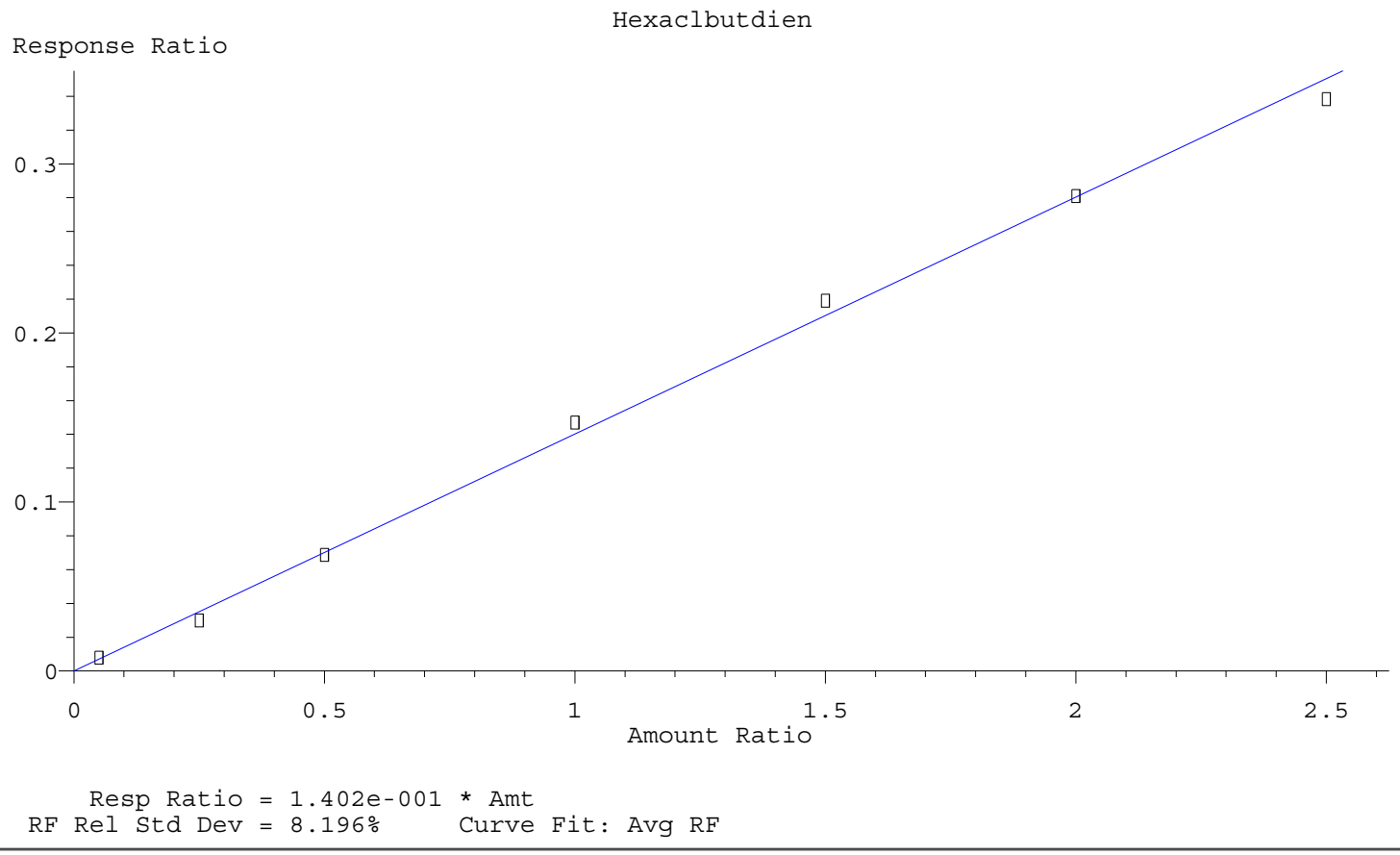
Resp Ratio = 3.632e-001 * Amt
RF Rel Std Dev = 9.839% Curve Fit: Avg RF



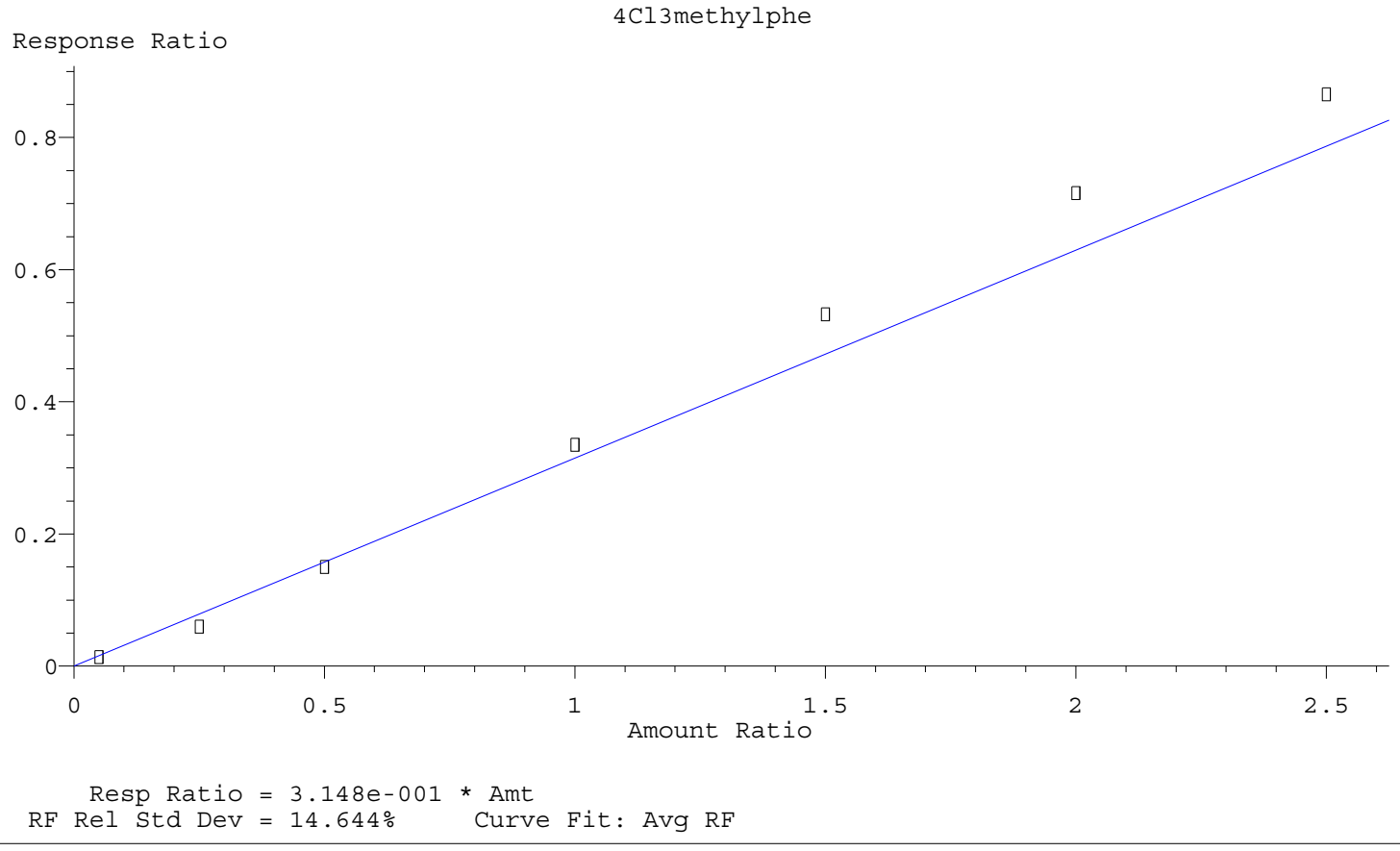
Resp Ratio = 2.011e-001 * Amt
RF Rel Std Dev = 10.230% Curve Fit: Avg RF



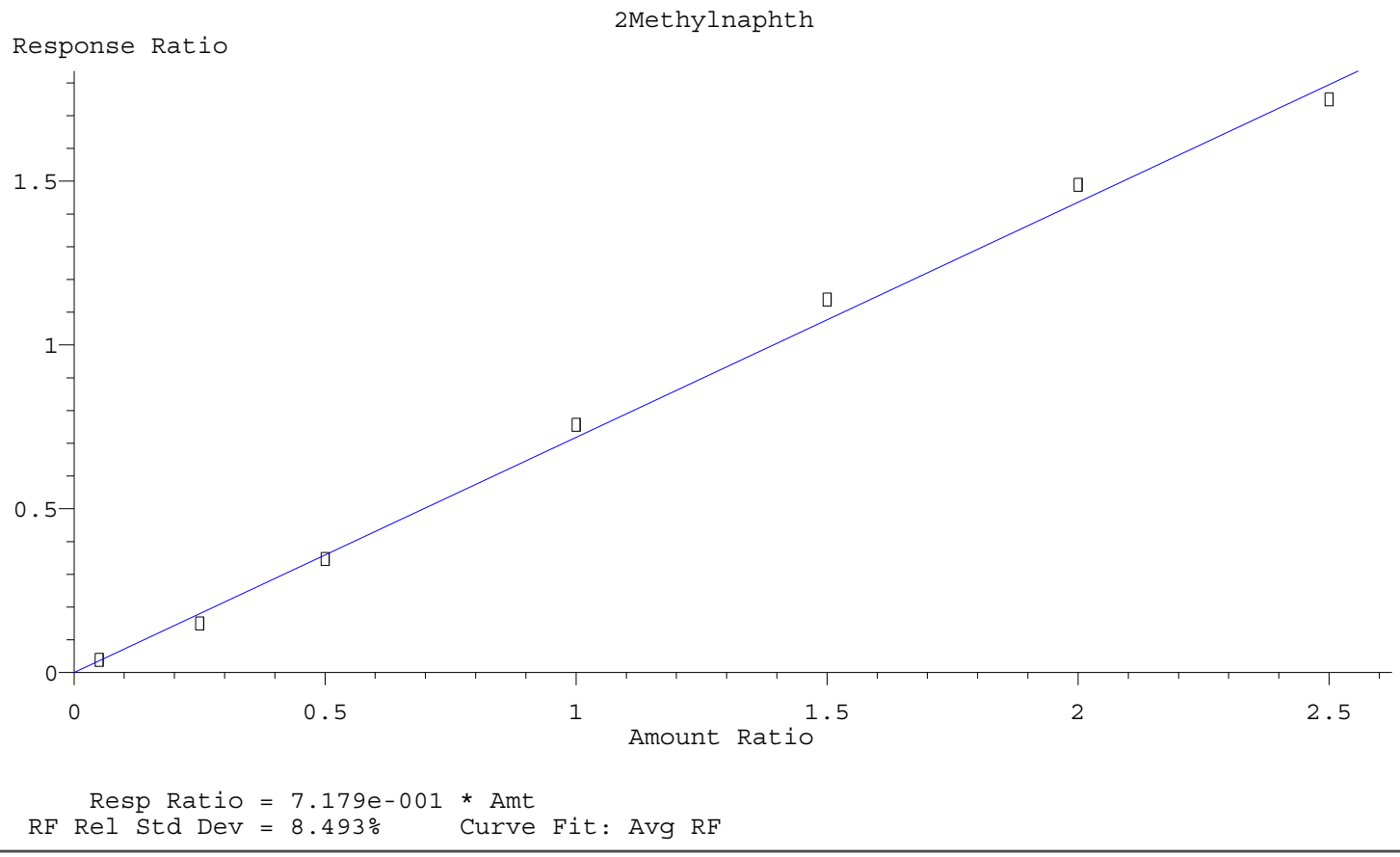
Resp Ratio = 1.752e-001 * Amt
RF Rel Std Dev = 9.881% Curve Fit: Avg RF



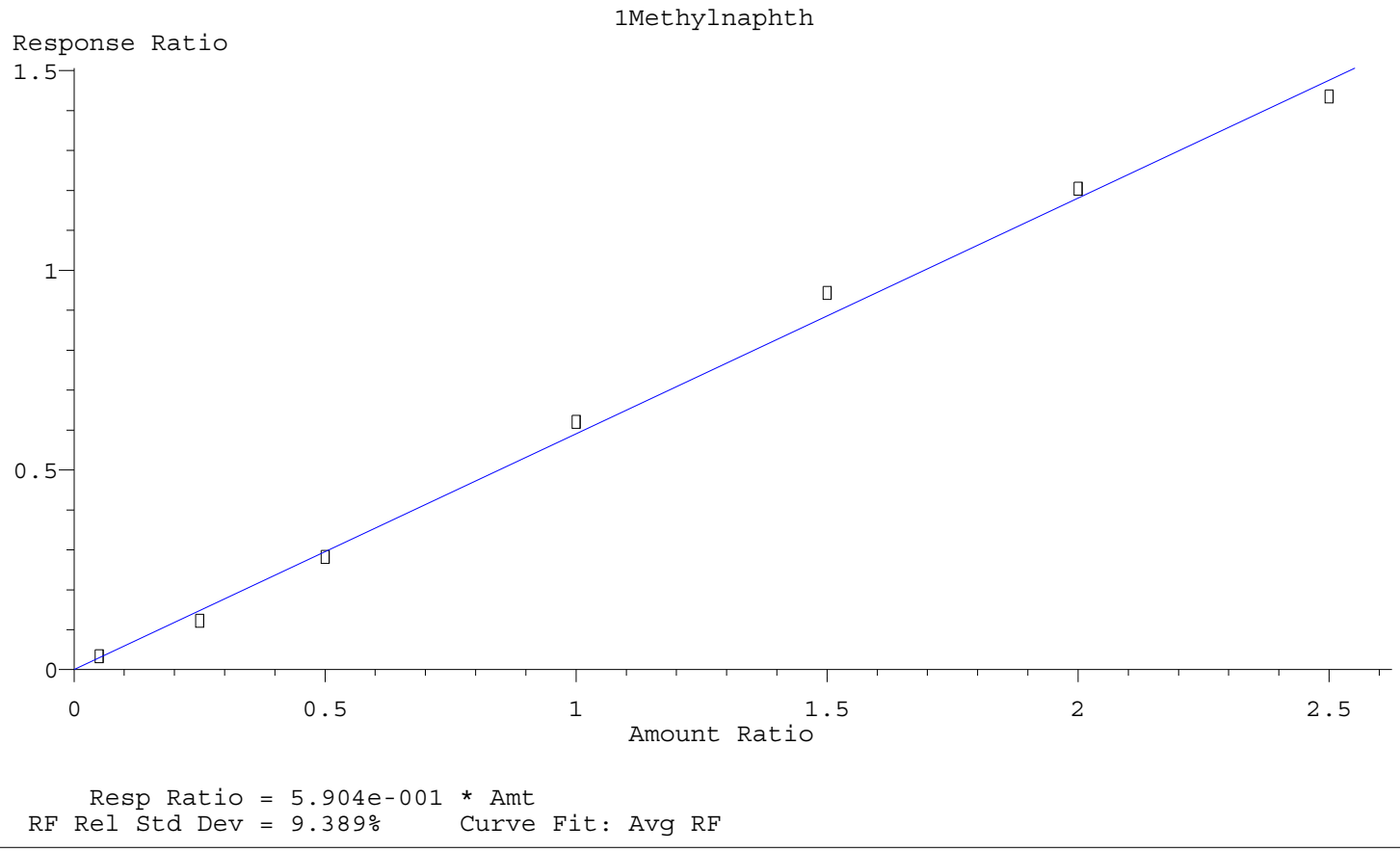
Resp Ratio = 1.402e-001 * Amt
RF Rel Std Dev = 8.196% Curve Fit: Avg RF



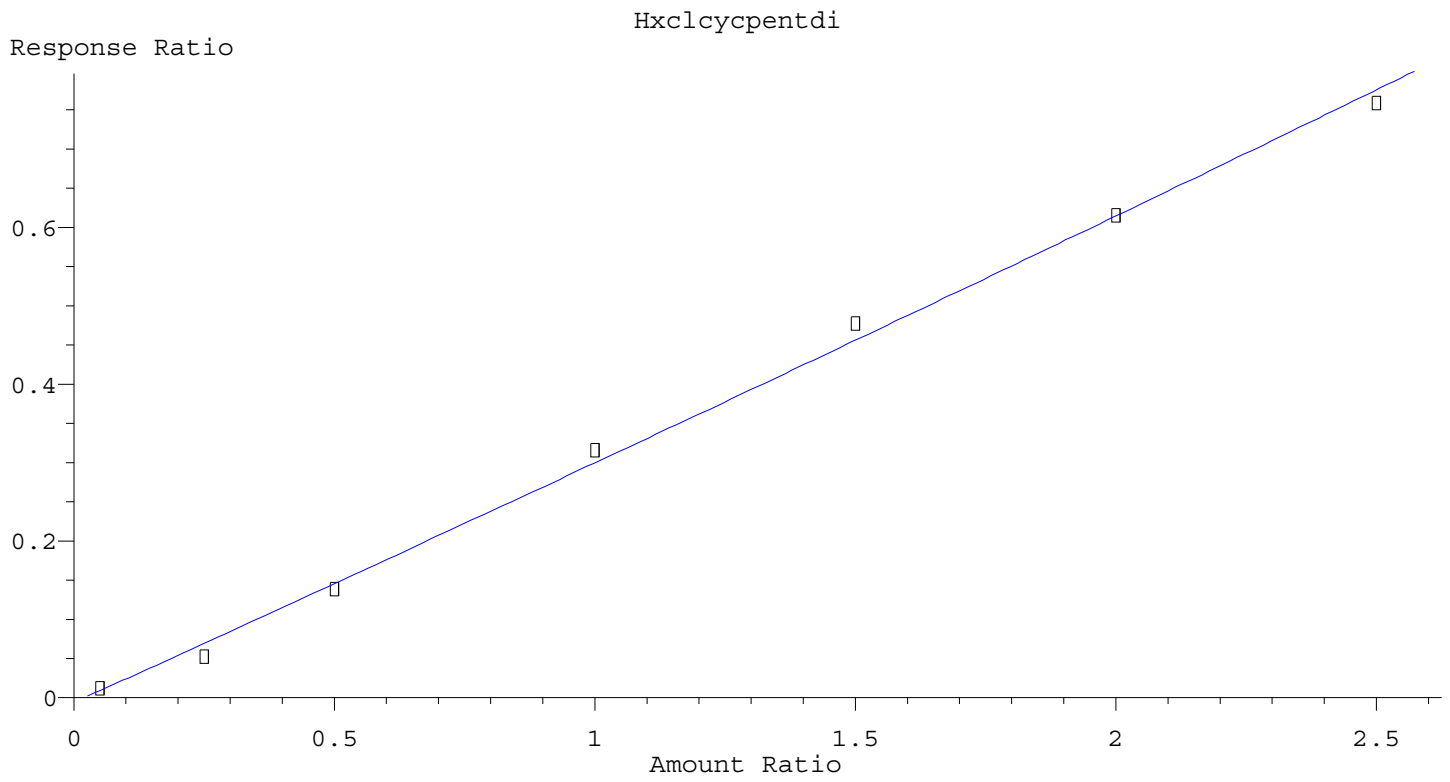
Resp Ratio = 3.148e-001 * Amt
RF Rel Std Dev = 14.644% Curve Fit: Avg RF



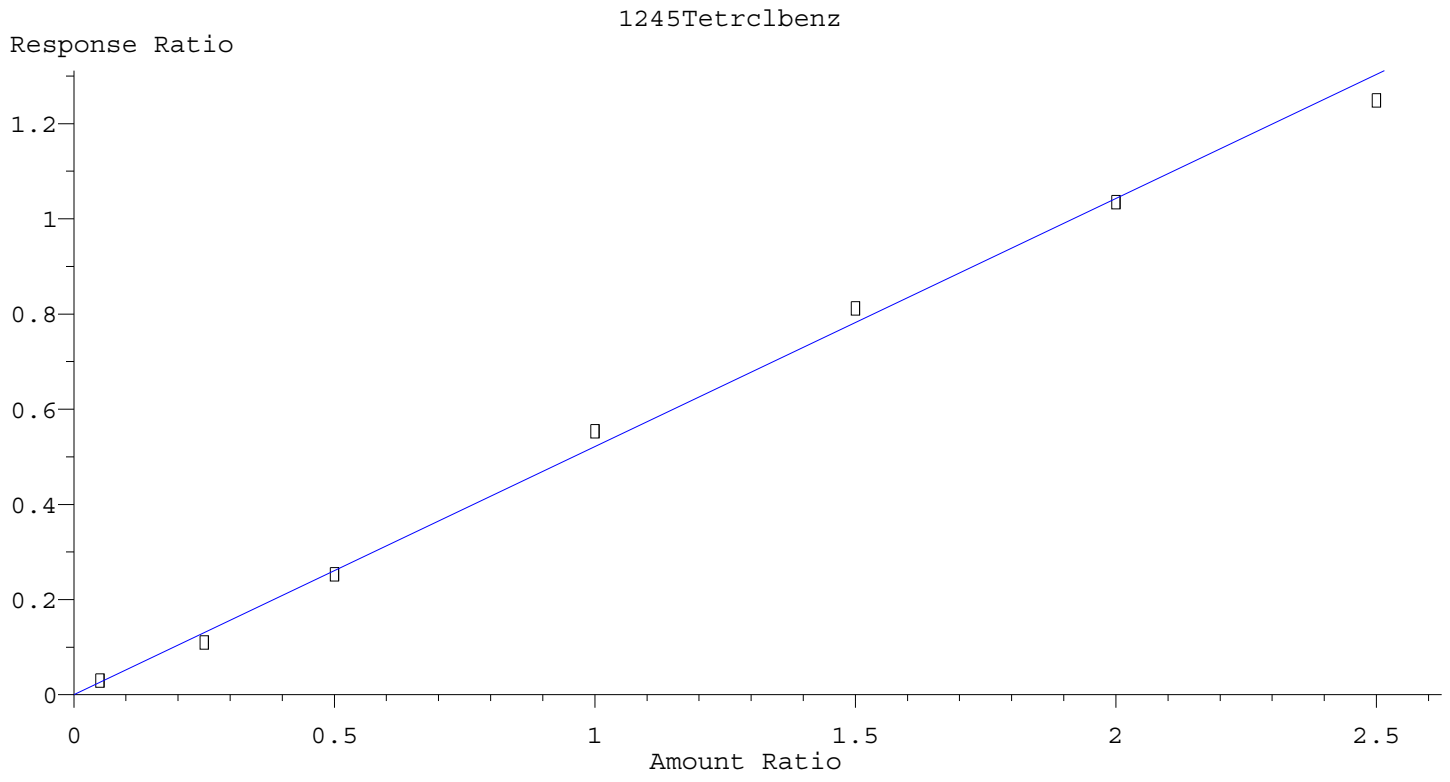
Resp Ratio = 7.179e-001 * Amt
RF Rel Std Dev = 8.493% Curve Fit: Avg RF



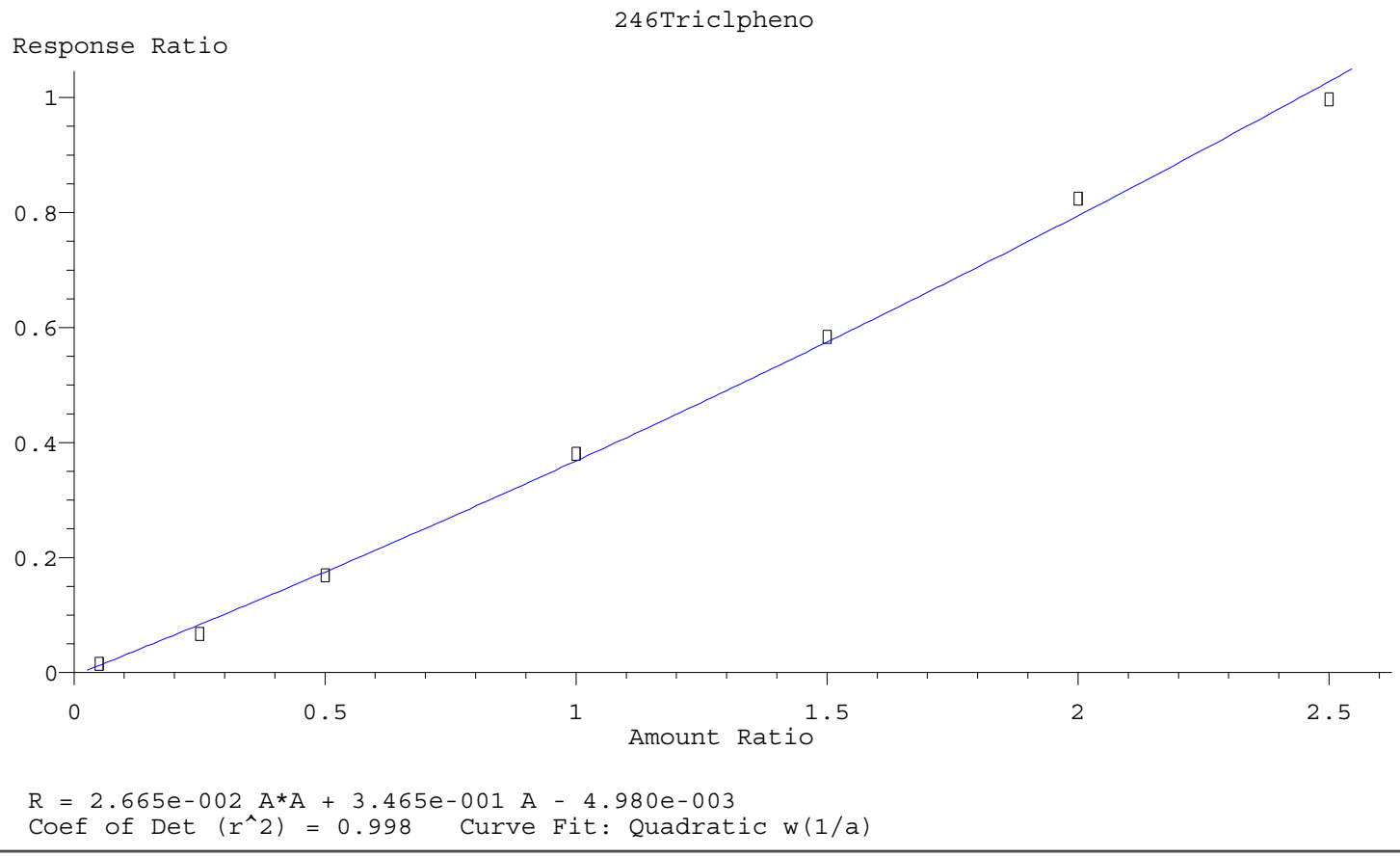
Resp Ratio = 5.904e-001 * Amt
RF Rel Std Dev = 9.389% Curve Fit: Avg RF



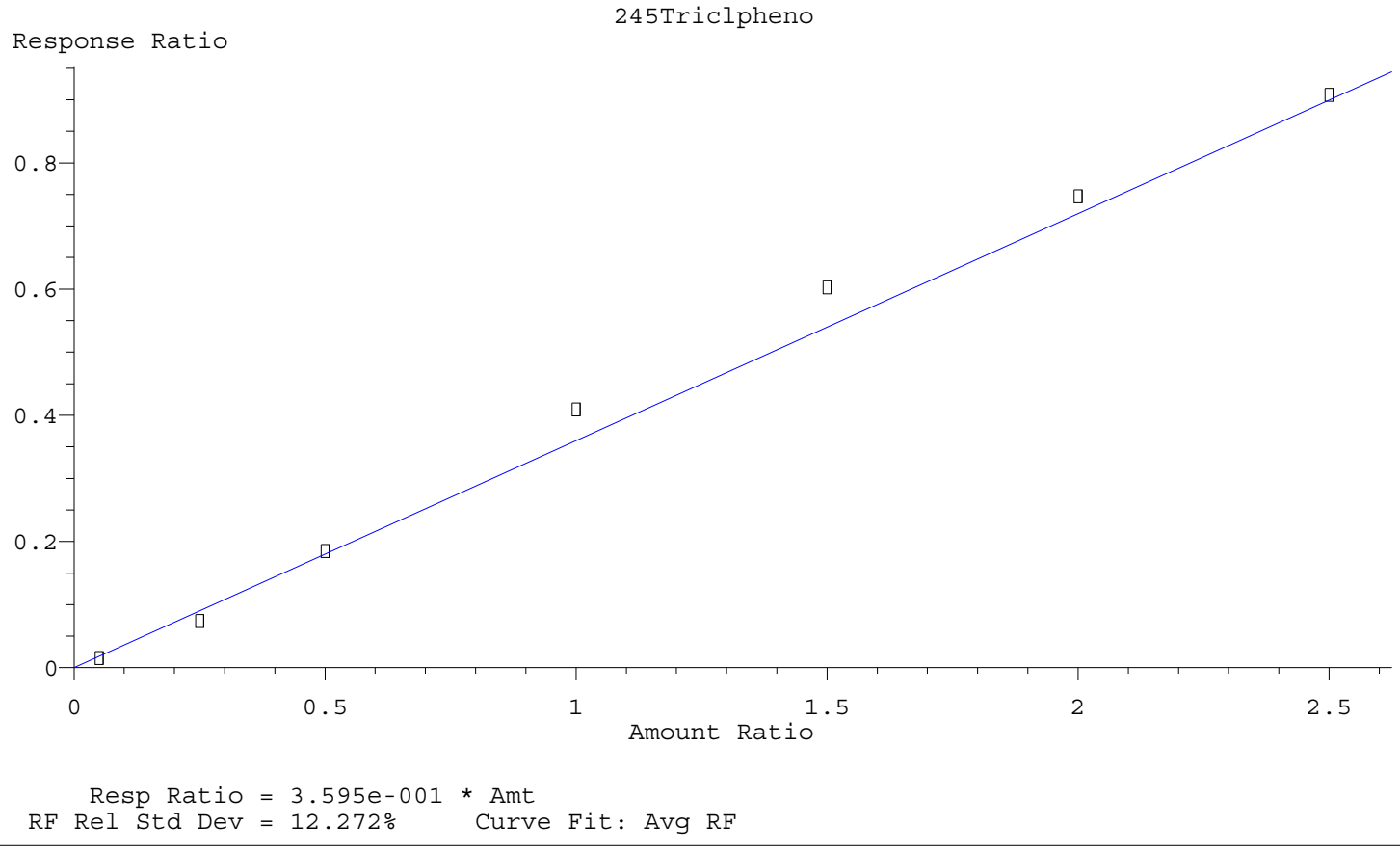
R = 4.562e-003 A*A + 3.012e-001 A - 6.189e-003
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a)



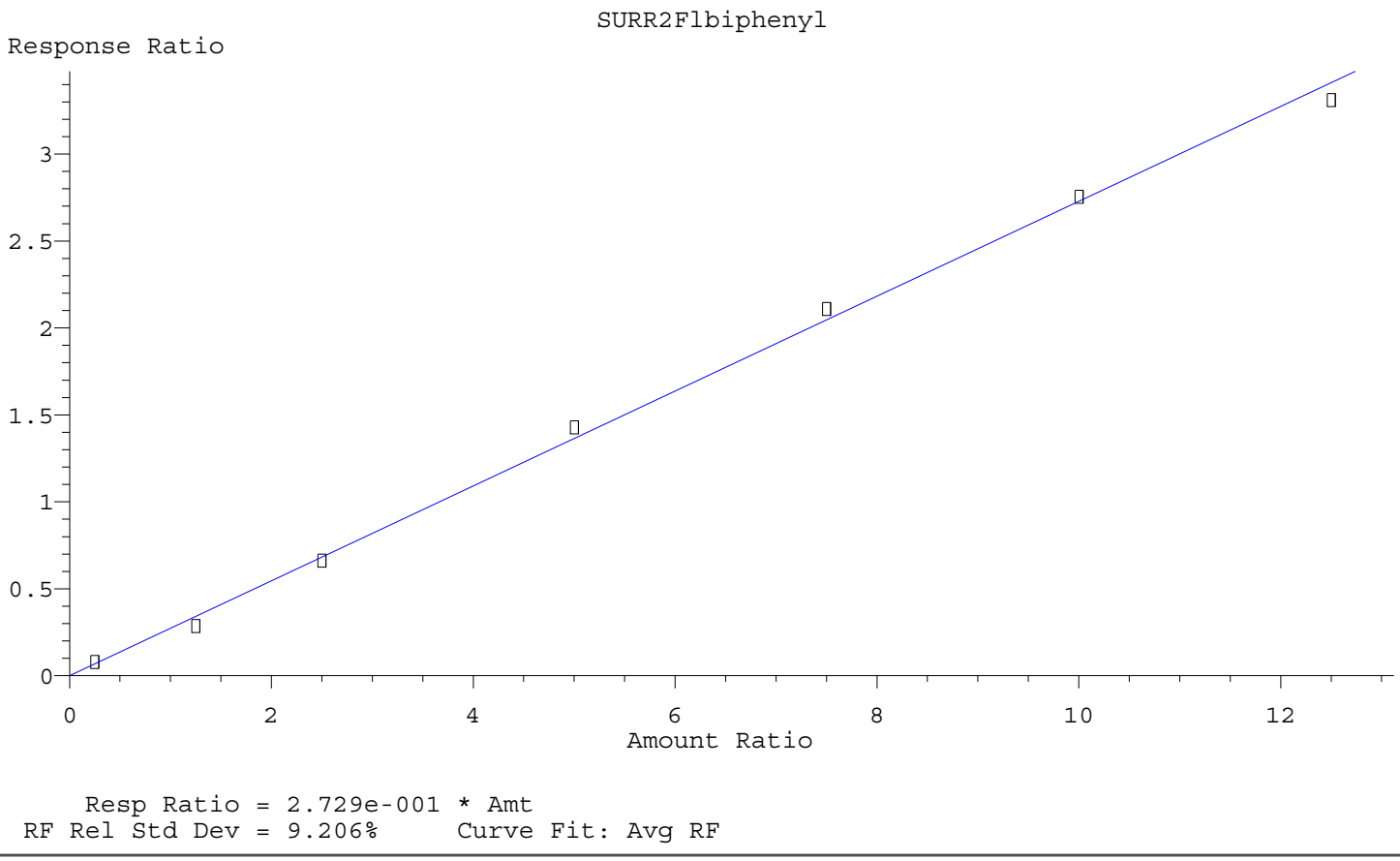
Resp Ratio = 5.213e-001 * Amt
RF Rel Std Dev = 9.557% Curve Fit: Avg RF



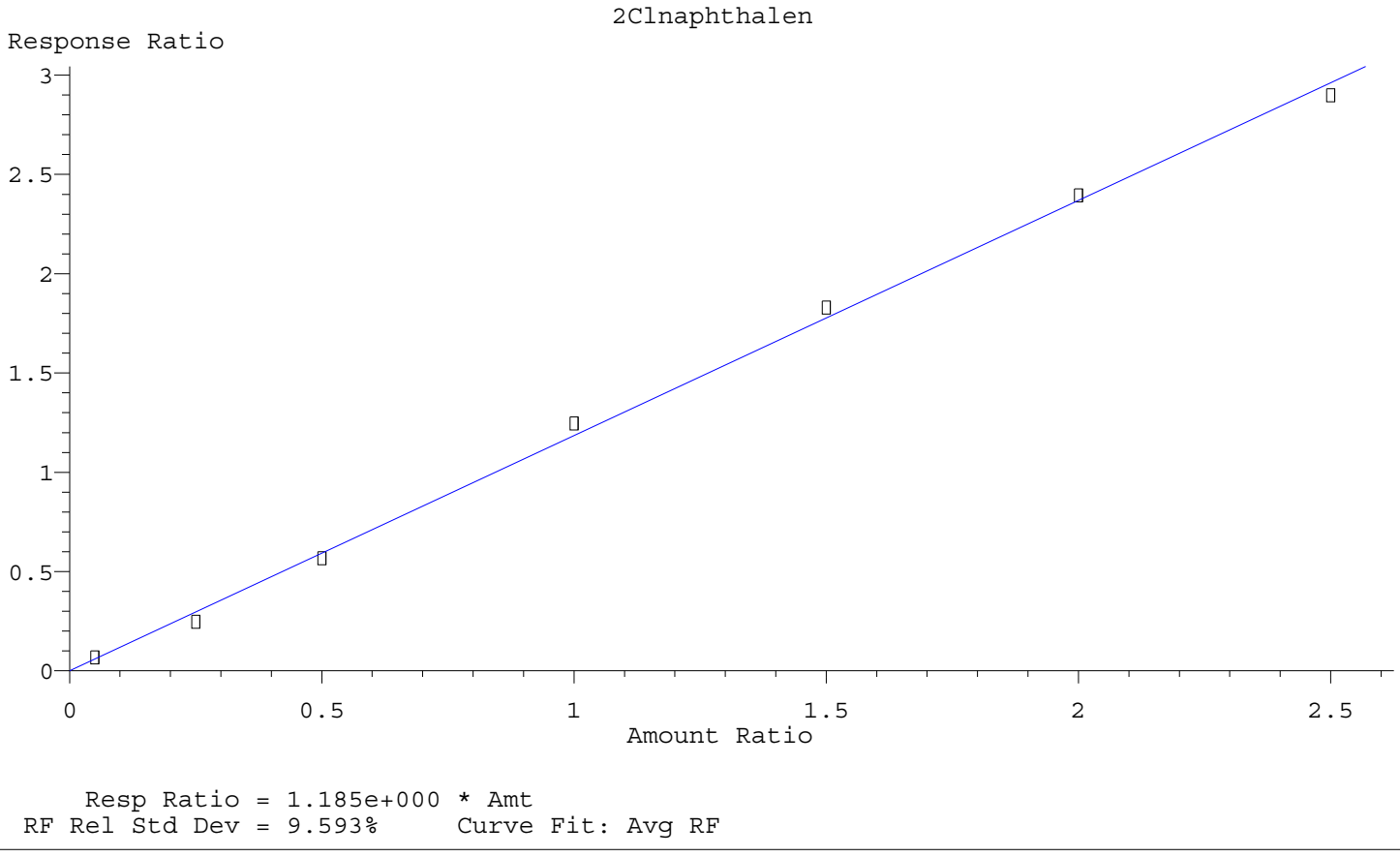
R = 2.665e-002 A*A + 3.465e-001 A - 4.980e-003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)



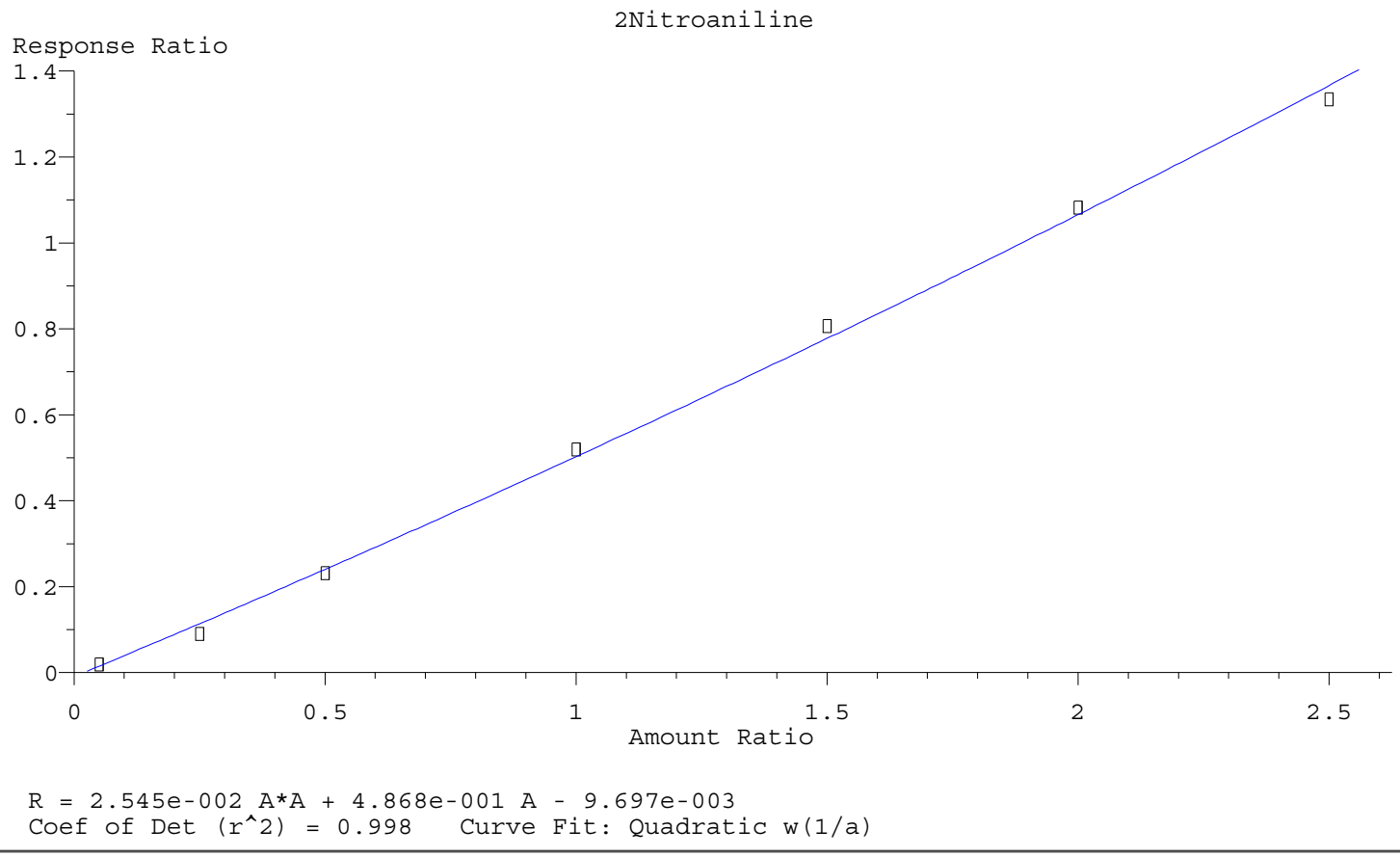
Resp Ratio = 3.595e-001 * Amt
RF Rel Std Dev = 12.272% Curve Fit: Avg RF



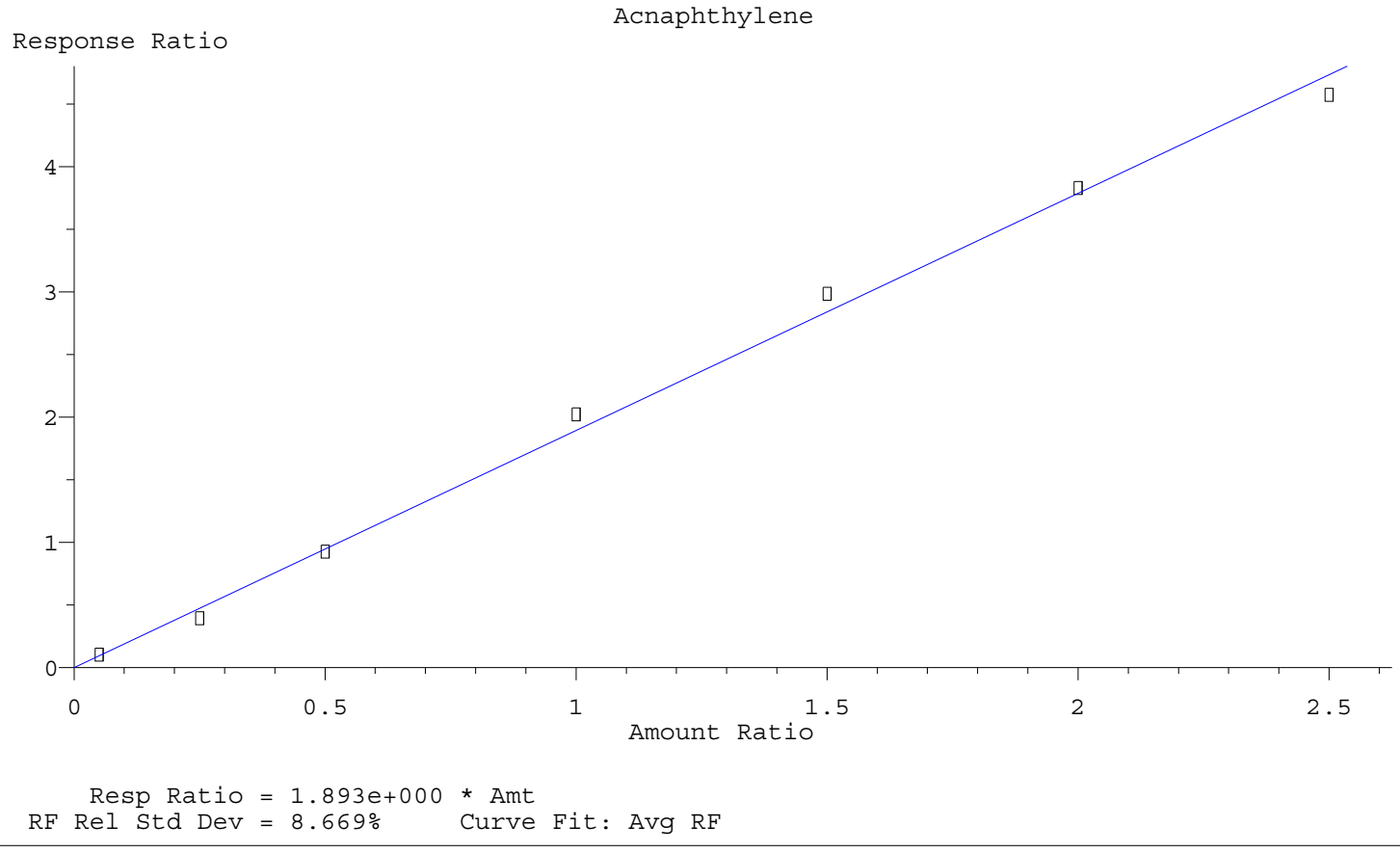
Resp Ratio = 2.729e-001 * Amt
RF Rel Std Dev = 9.206% Curve Fit: Avg RF



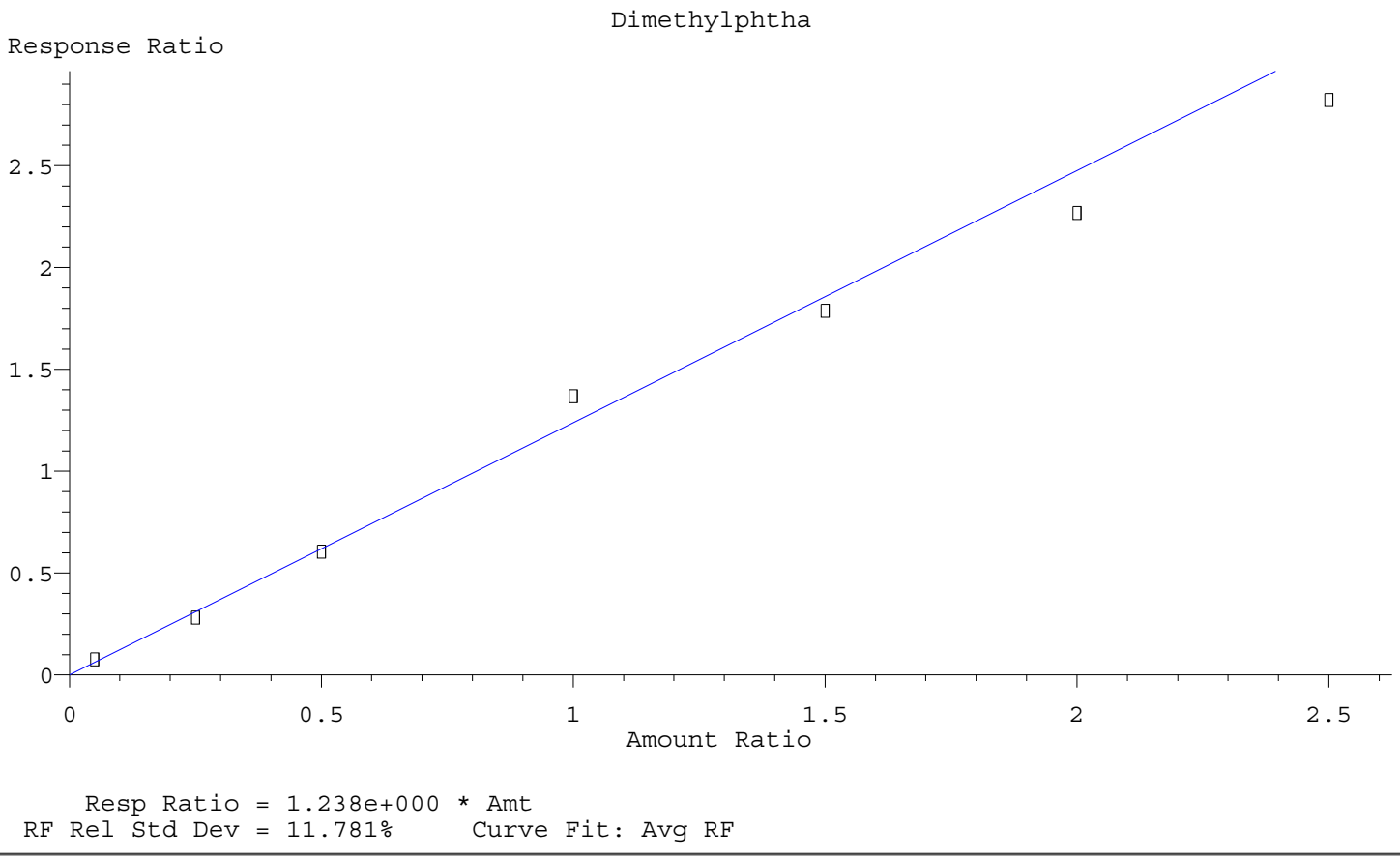
Resp Ratio = 1.185e+000 * Amt
RF Rel Std Dev = 9.593% Curve Fit: Avg RF



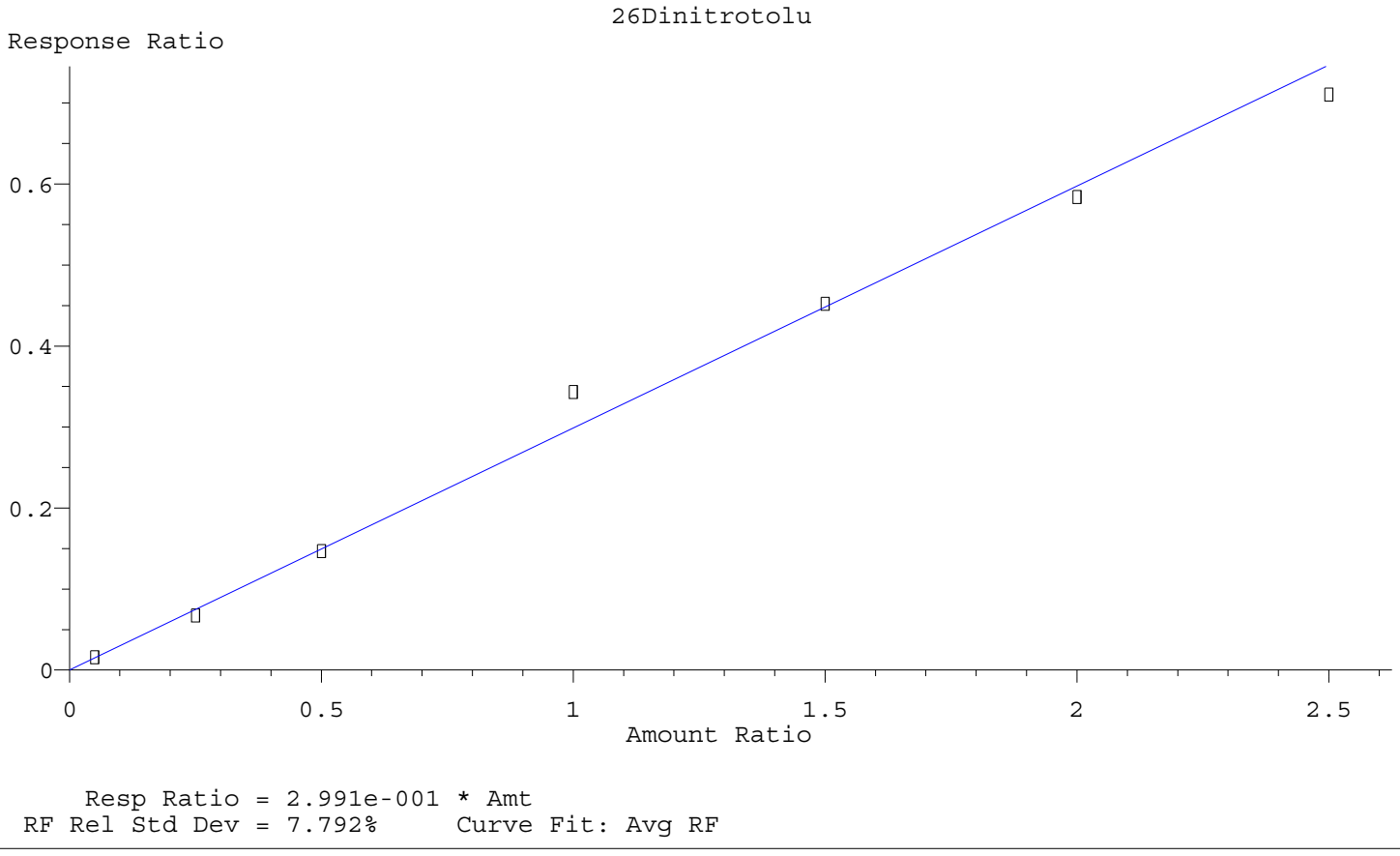
R = 2.545e-002 A*A + 4.868e-001 A - 9.697e-003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a)



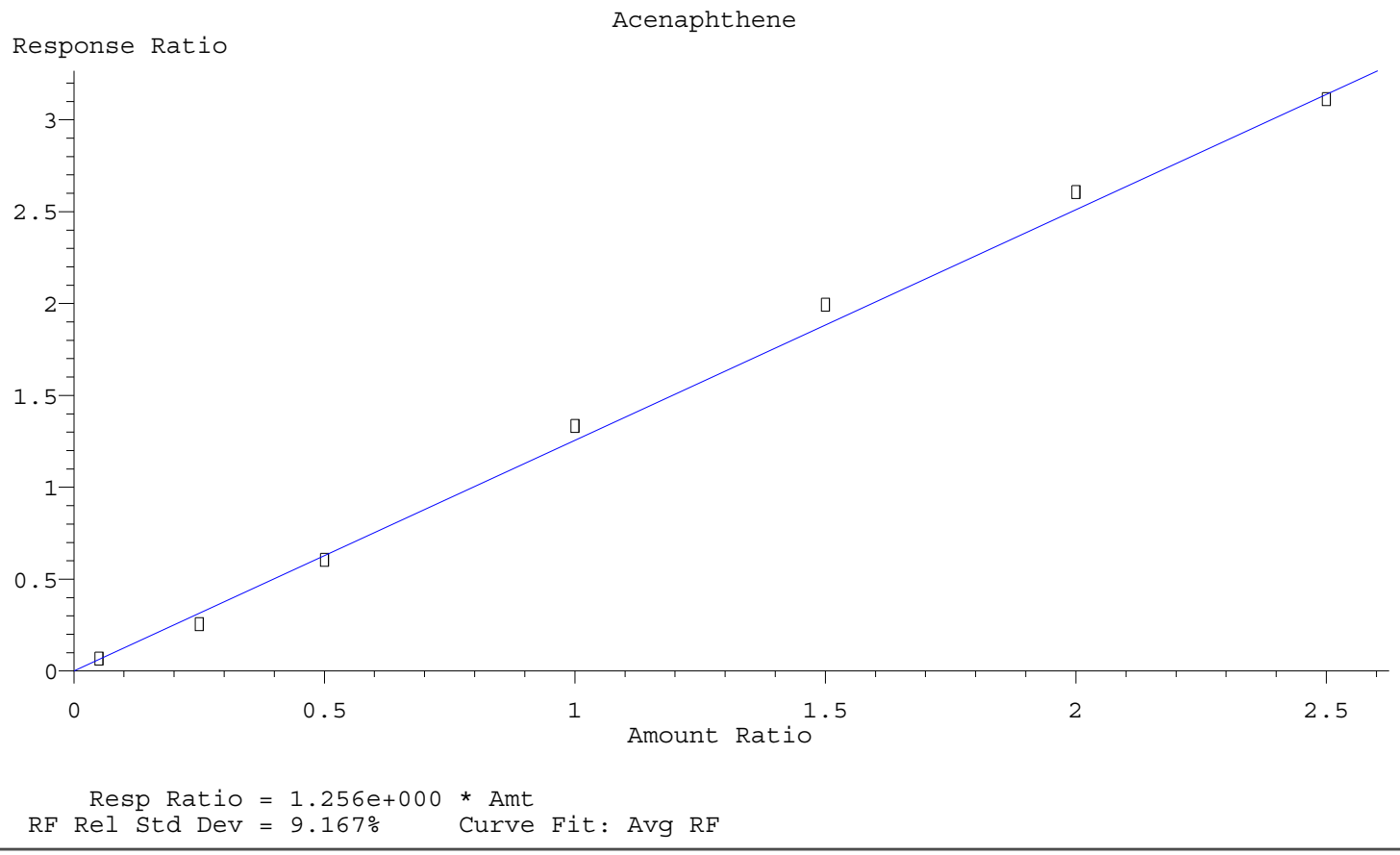
Resp Ratio = 1.893e+000 * Amt
RF Rel Std Dev = 8.669% Curve Fit: Avg RF



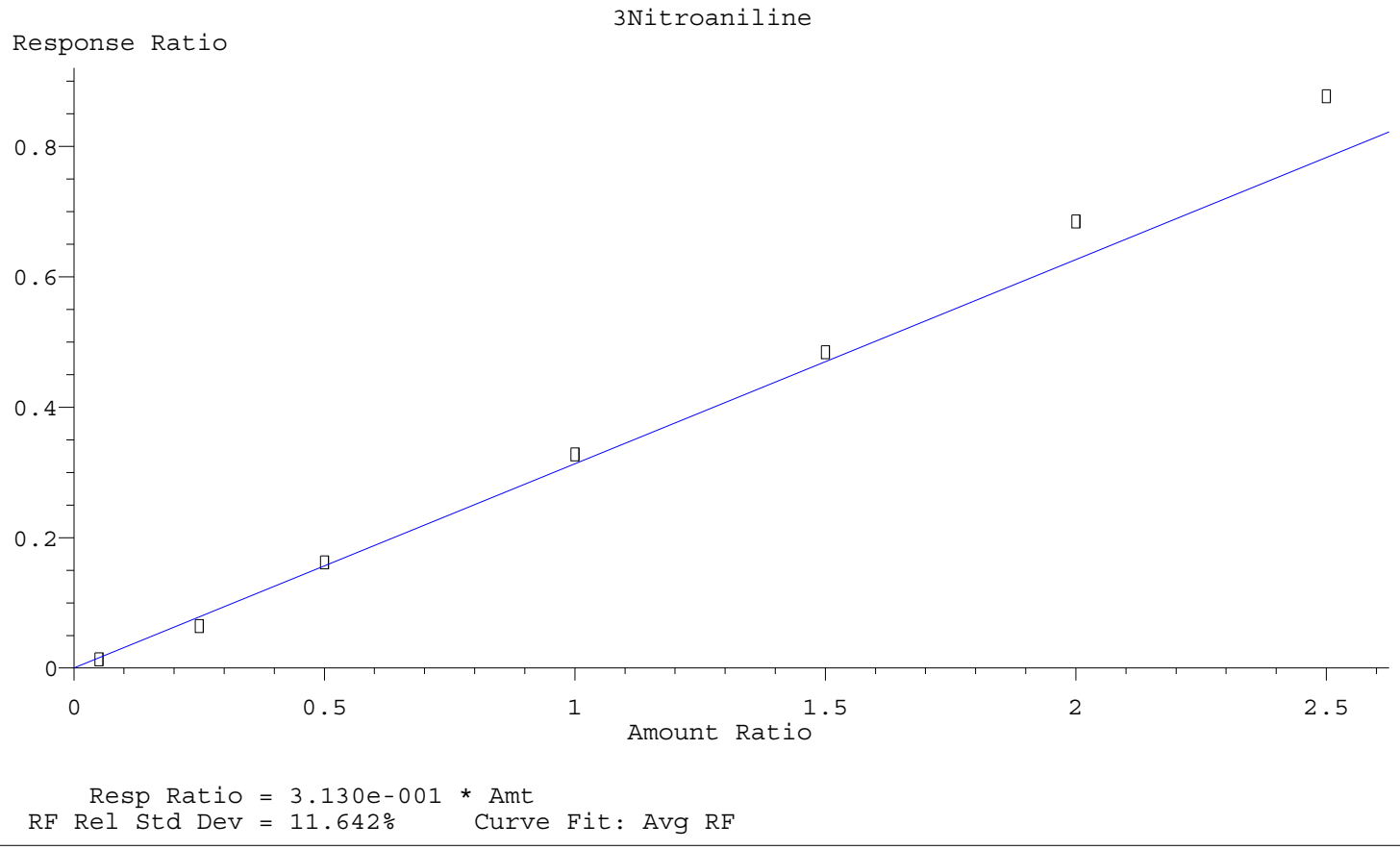
Resp Ratio = 1.238e+000 * Amt
RF Rel Std Dev = 11.781% Curve Fit: Avg RF



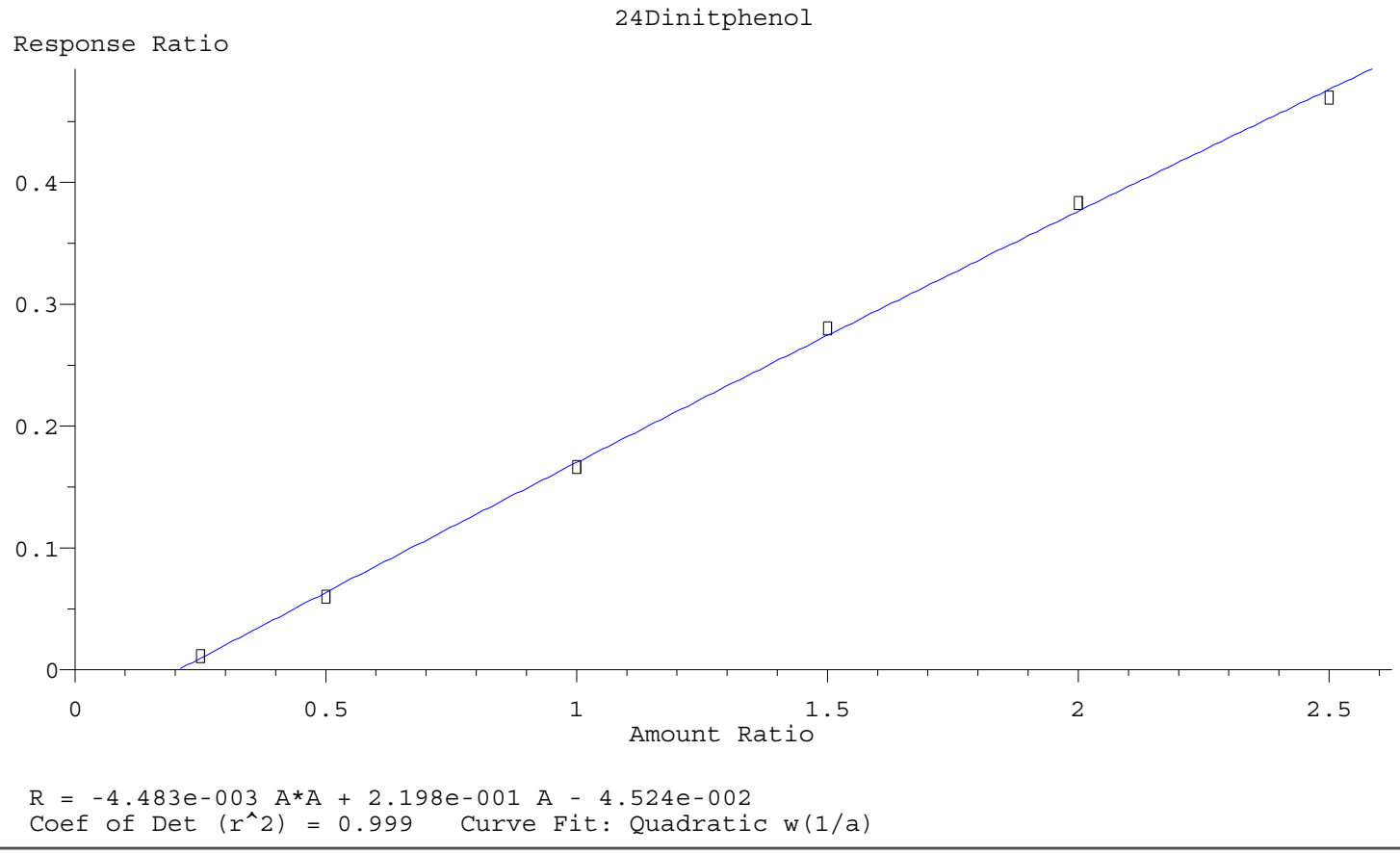
Resp Ratio = 2.991e-001 * Amt
RF Rel Std Dev = 7.792% Curve Fit: Avg RF



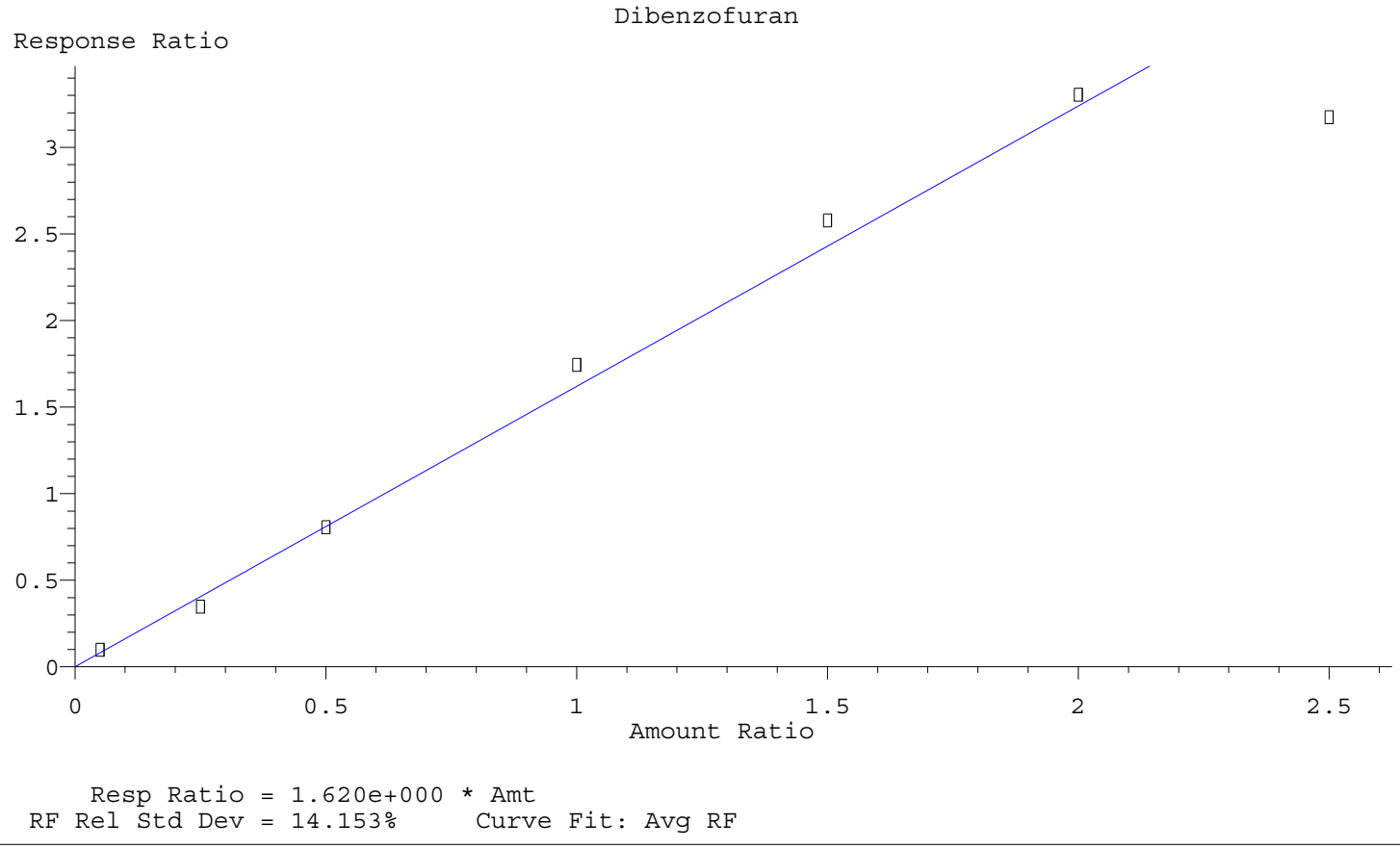
Resp Ratio = 1.256e+000 * Amt
RF Rel Std Dev = 9.167% Curve Fit: Avg RF



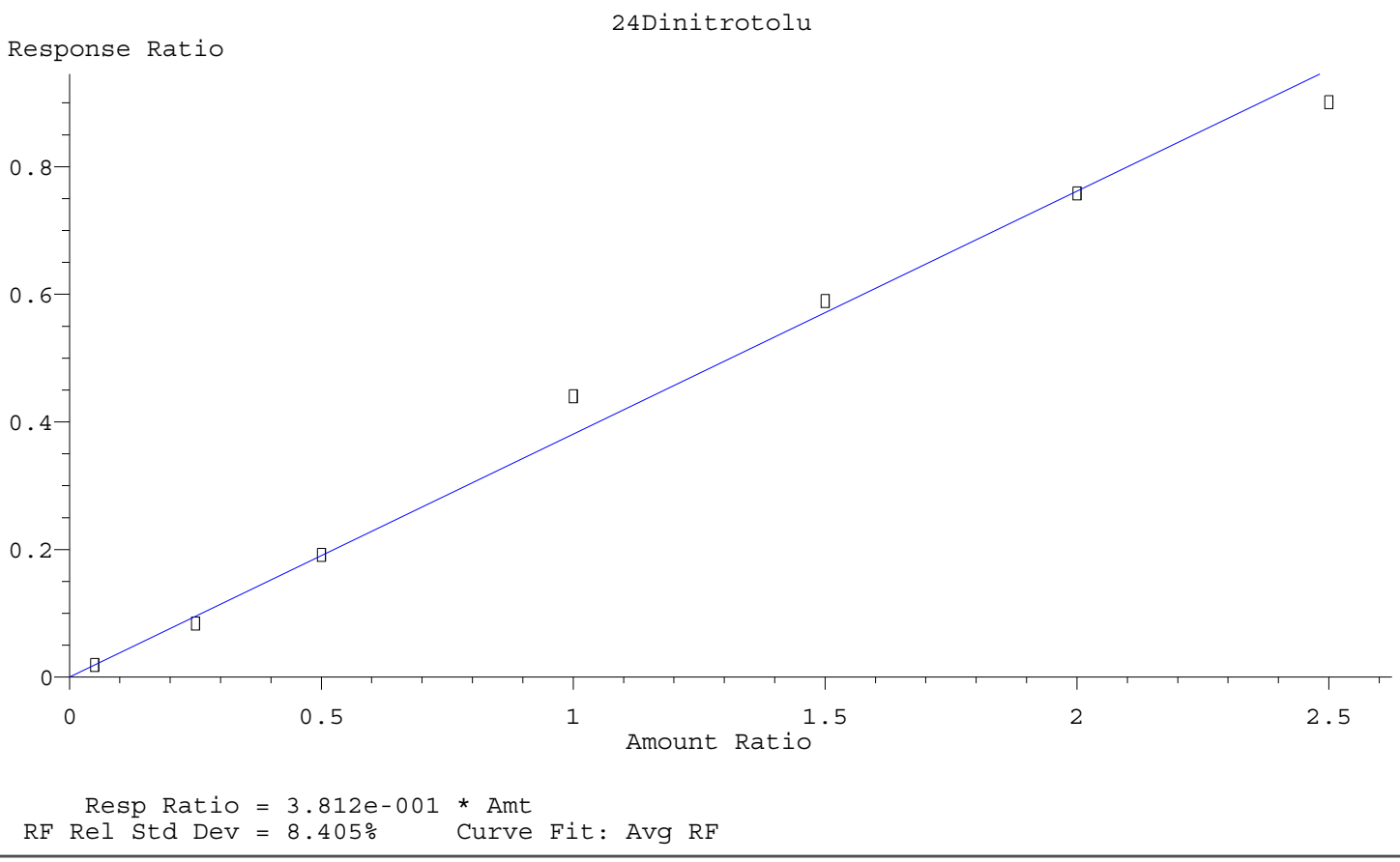
Resp Ratio = 3.130e-001 * Amt
RF Rel Std Dev = 11.642% Curve Fit: Avg RF



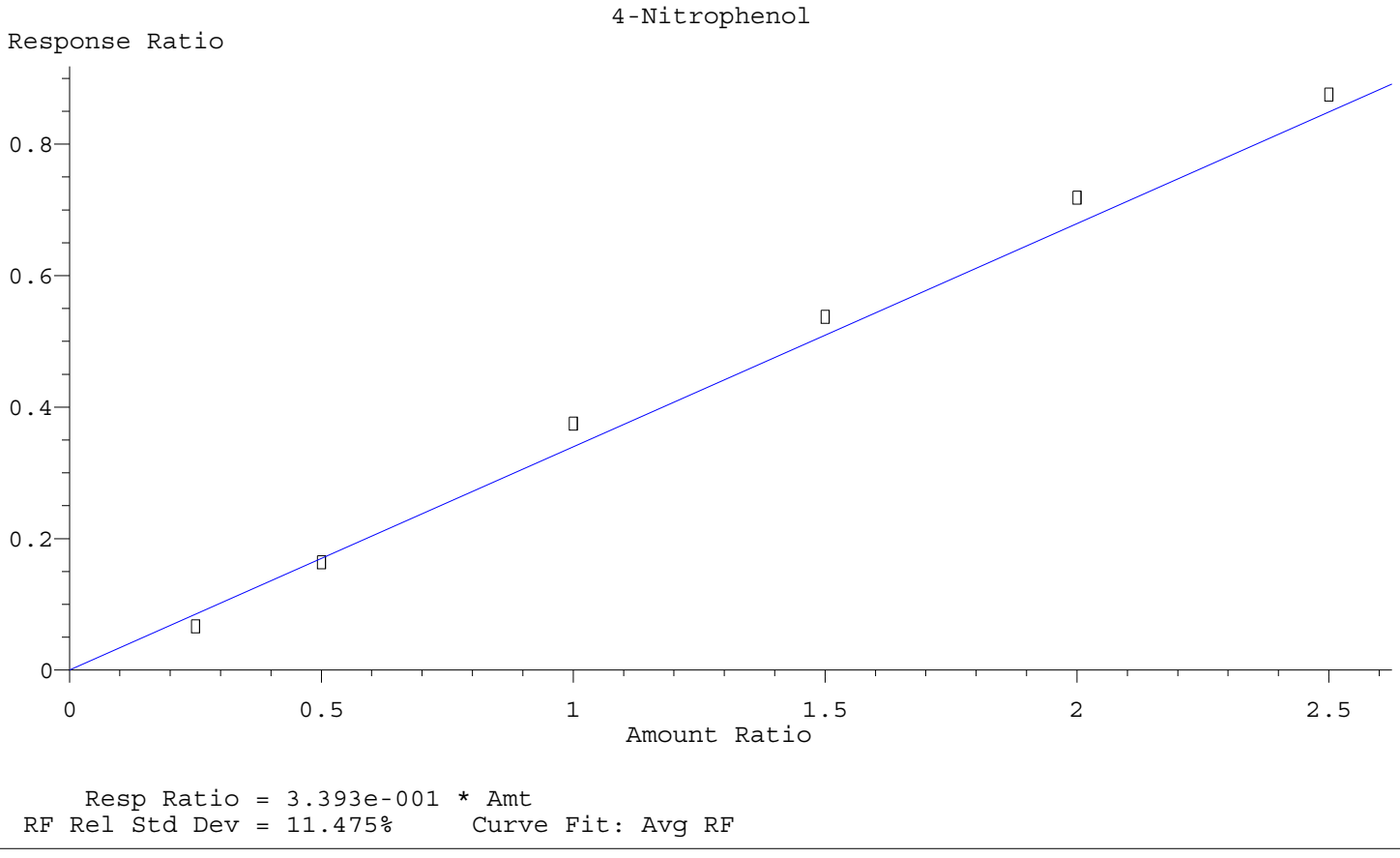
R = -4.483e-003 A*A + 2.198e-001 A - 4.524e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



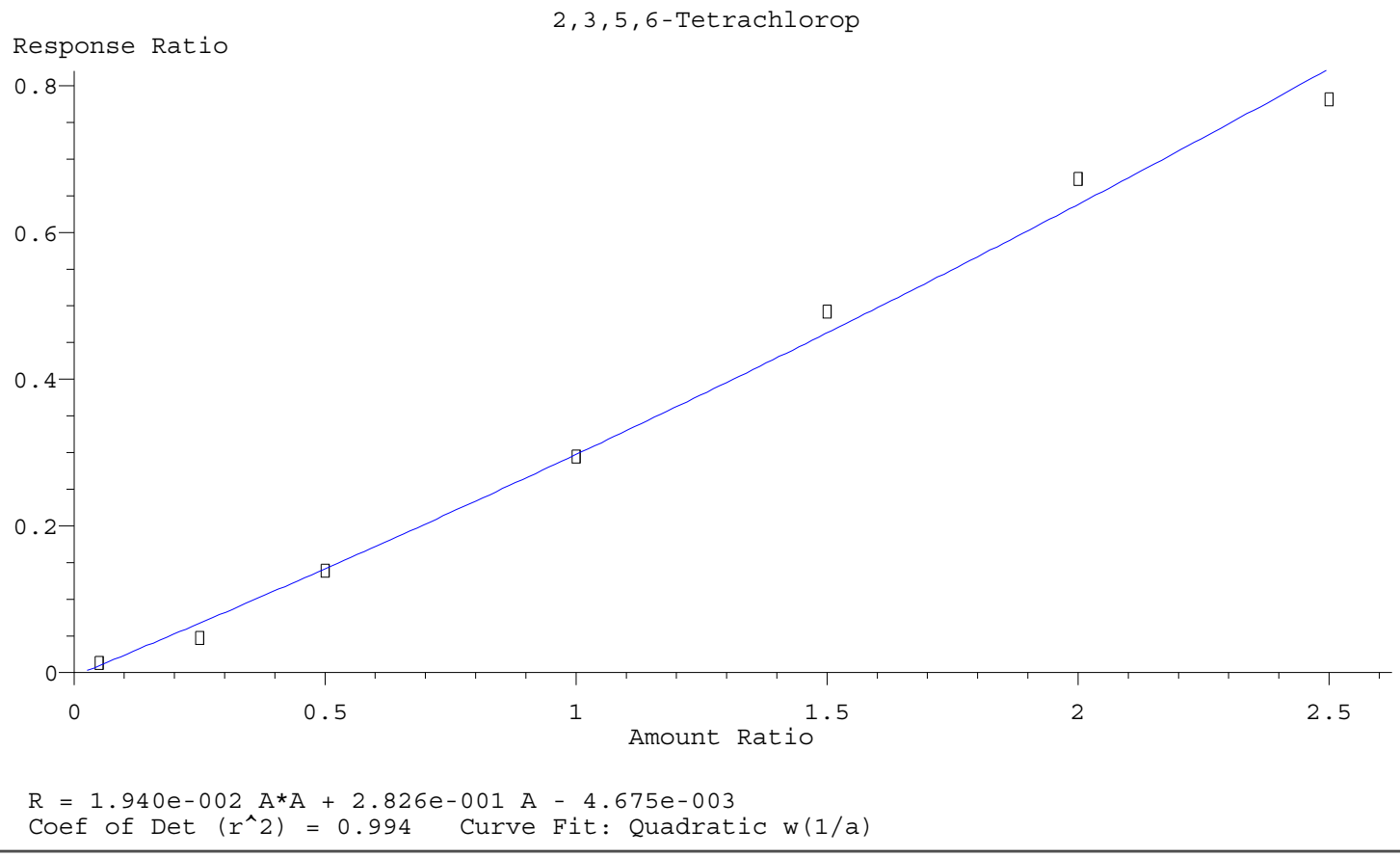
Resp Ratio = 1.620e+000 * Amt
RF Rel Std Dev = 14.153% Curve Fit: Avg RF



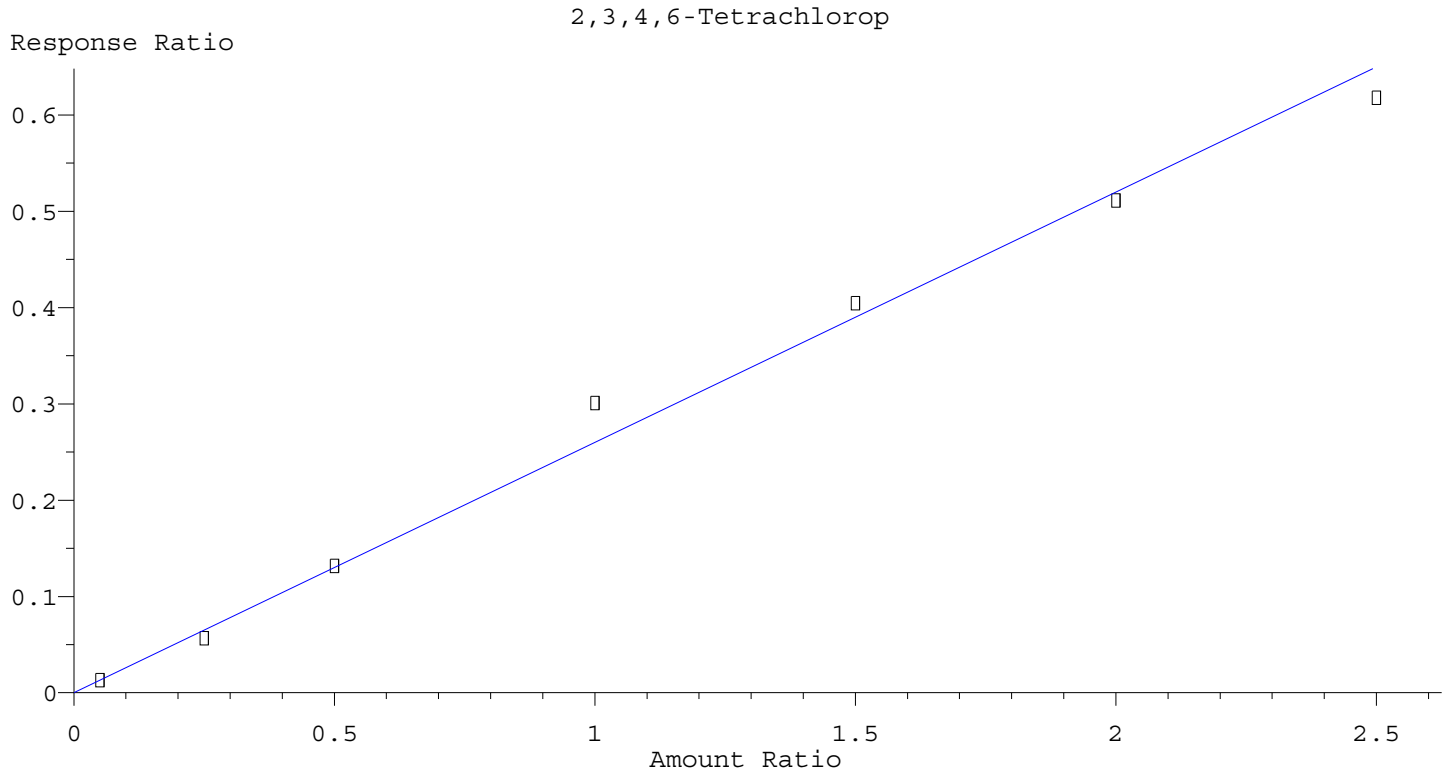
Resp Ratio = 3.812e-001 * Amt
RF Rel Std Dev = 8.405% Curve Fit: Avg RF



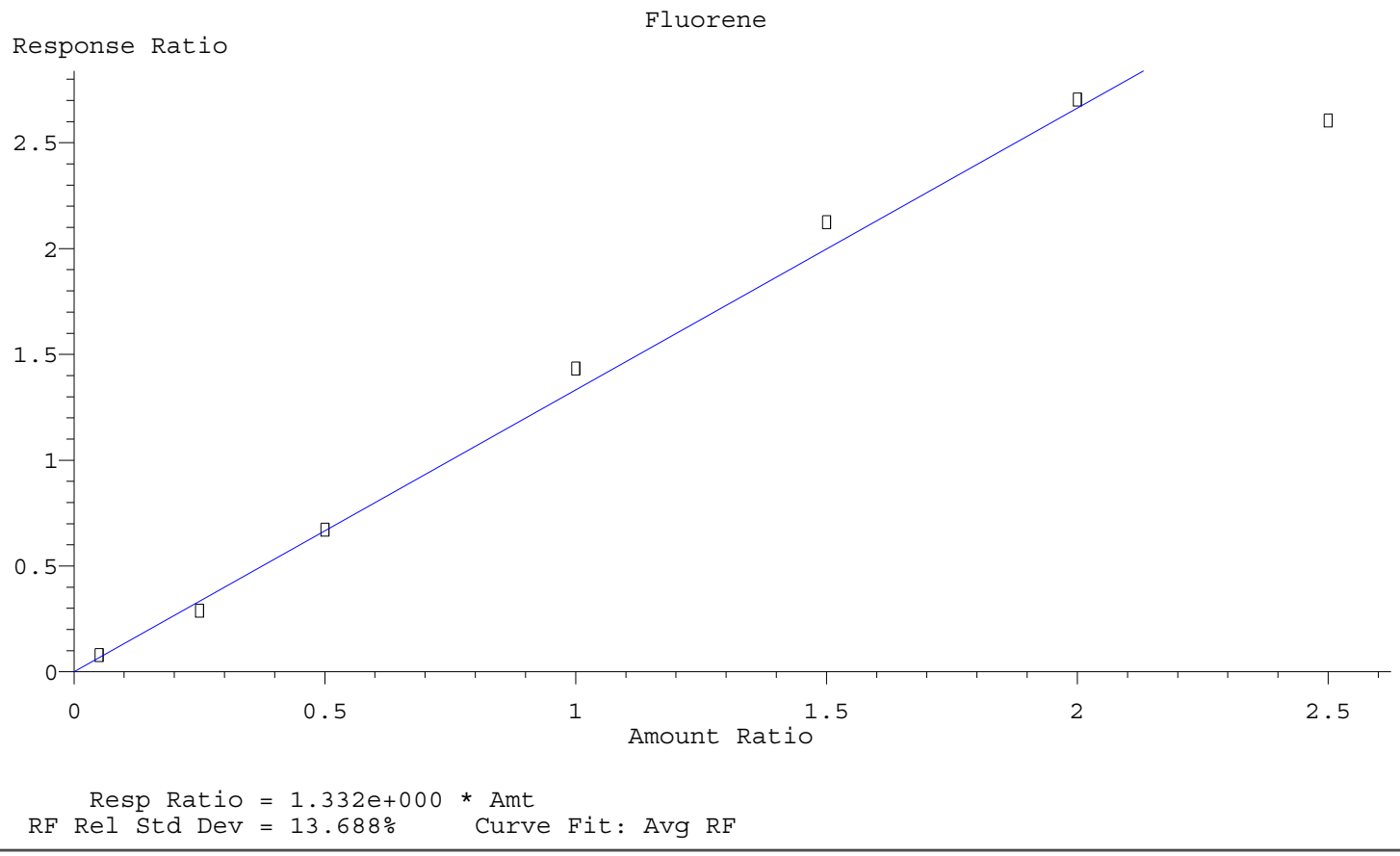
Resp Ratio = 3.393e-001 * Amt
RF Rel Std Dev = 11.475% Curve Fit: Avg RF



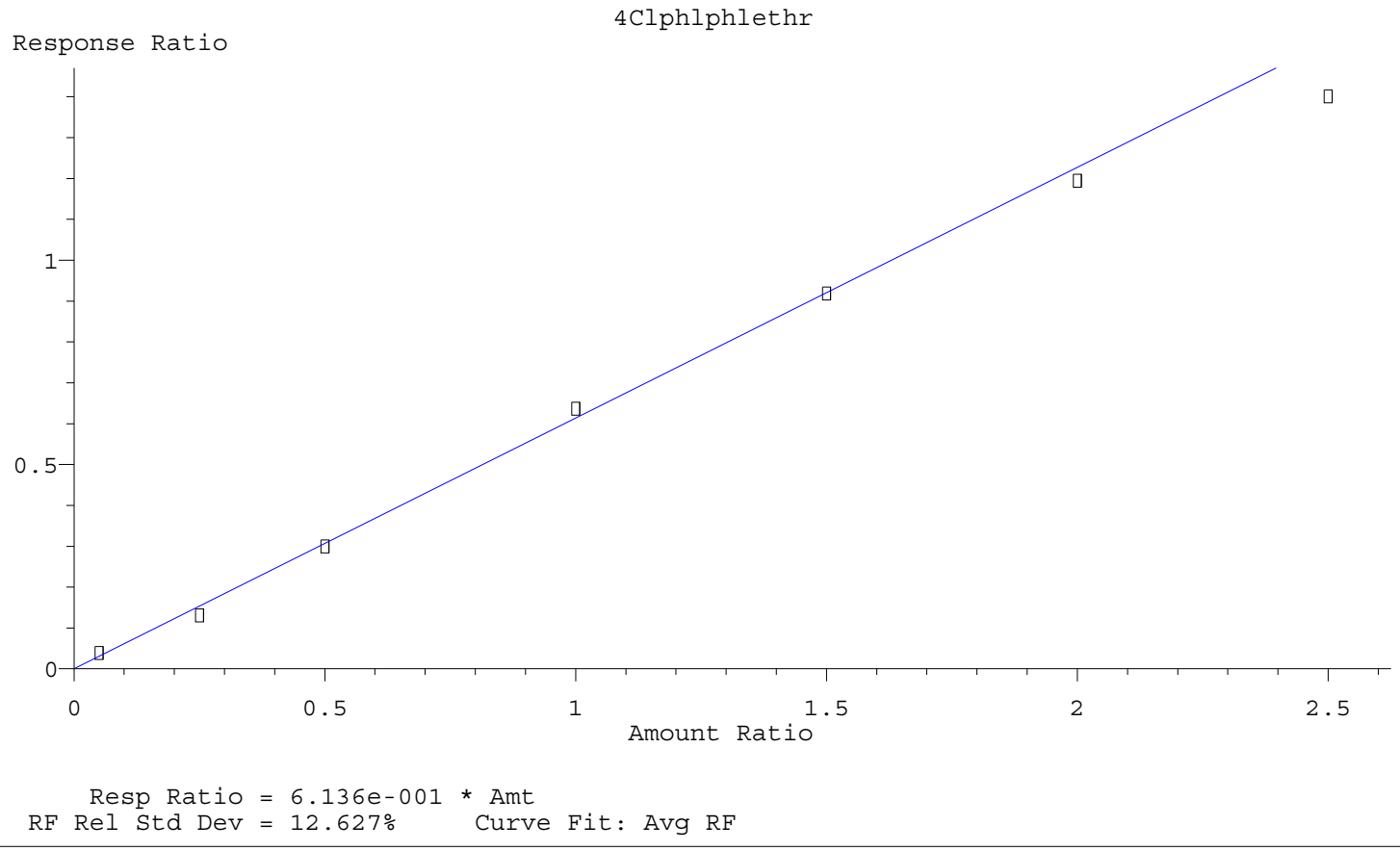
R = 1.940e-002 A*A + 2.826e-001 A - 4.675e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a)



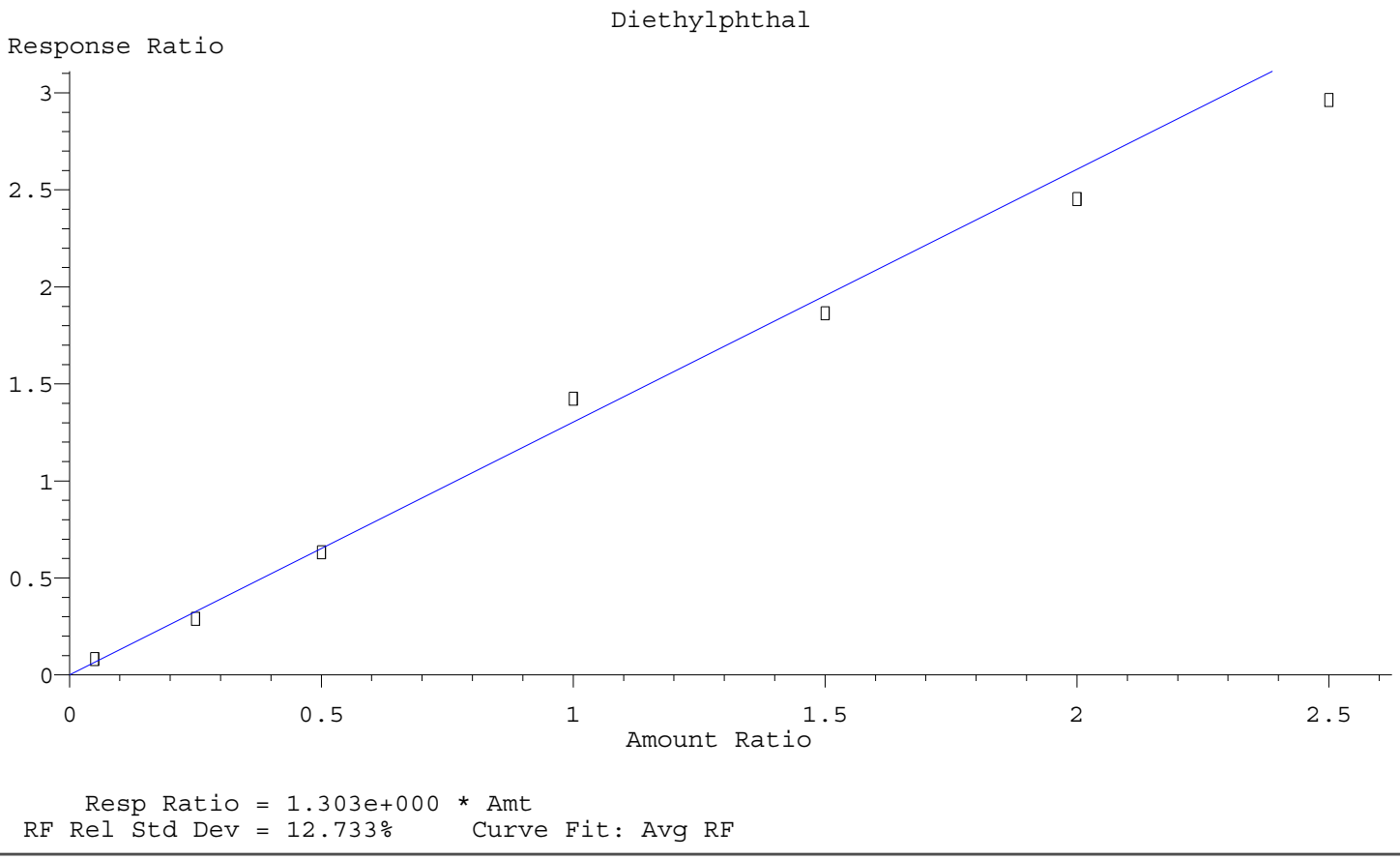
Resp Ratio = 2.602e-001 * Amt
RF Rel Std Dev = 8.673% Curve Fit: Avg RF



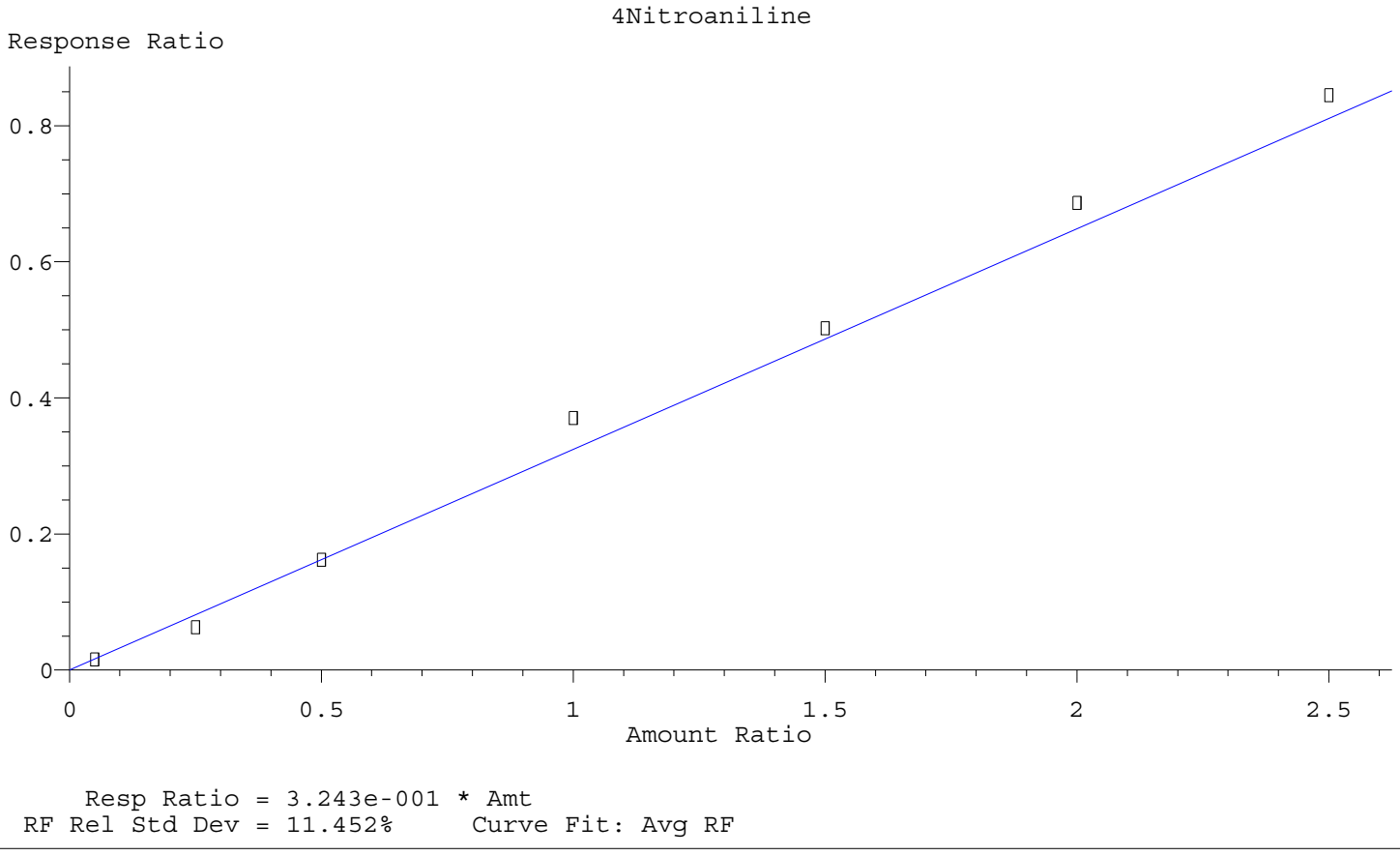
Resp Ratio = 1.332e+000 * Amt
RF Rel Std Dev = 13.688% Curve Fit: Avg RF



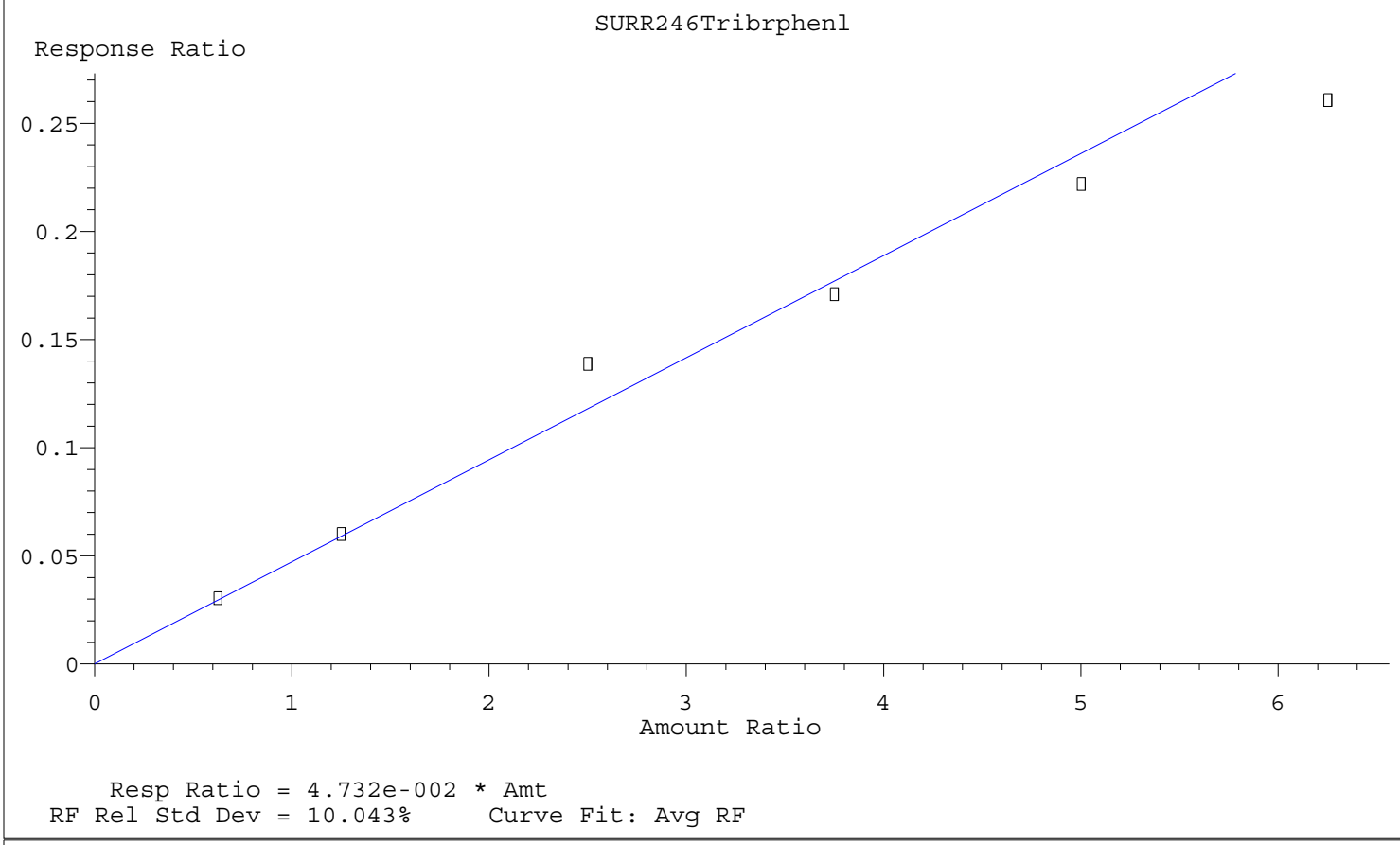
Resp Ratio = 6.136e-001 * Amt
RF Rel Std Dev = 12.627% Curve Fit: Avg RF



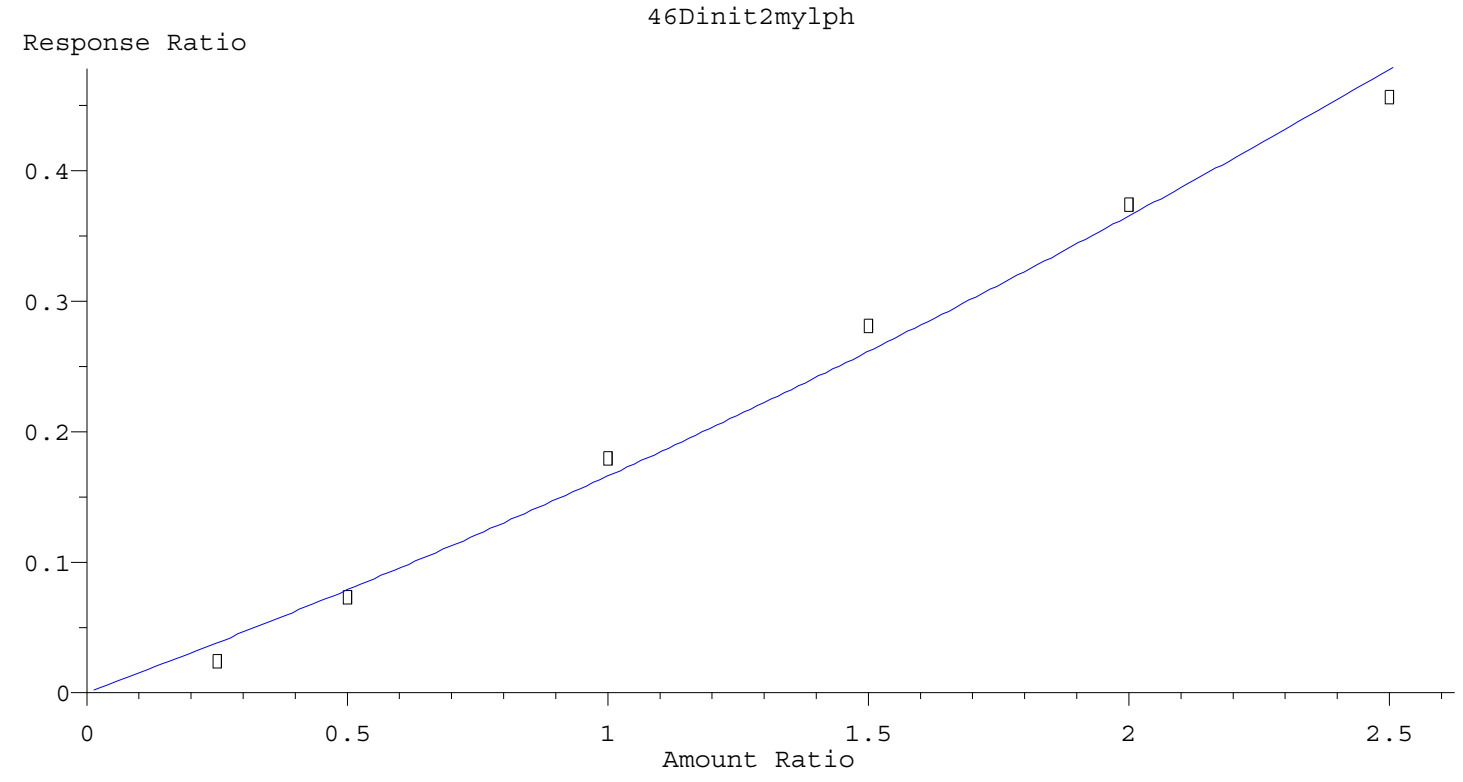
Resp Ratio = 1.303e+000 * Amt
RF Rel Std Dev = 12.733% Curve Fit: Avg RF



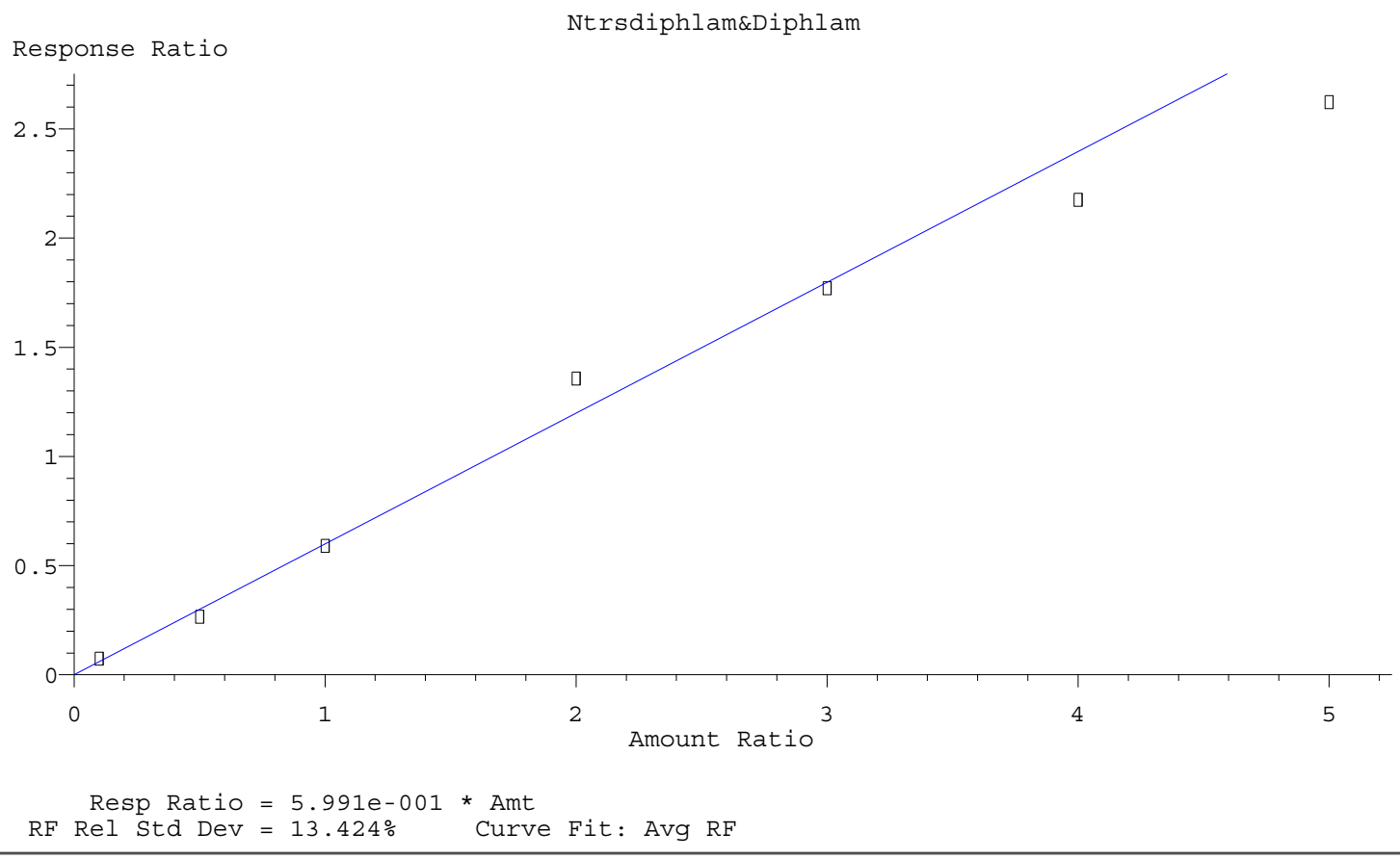
Resp Ratio = 3.243e-001 * Amt
RF Rel Std Dev = 11.452% Curve Fit: Avg RF



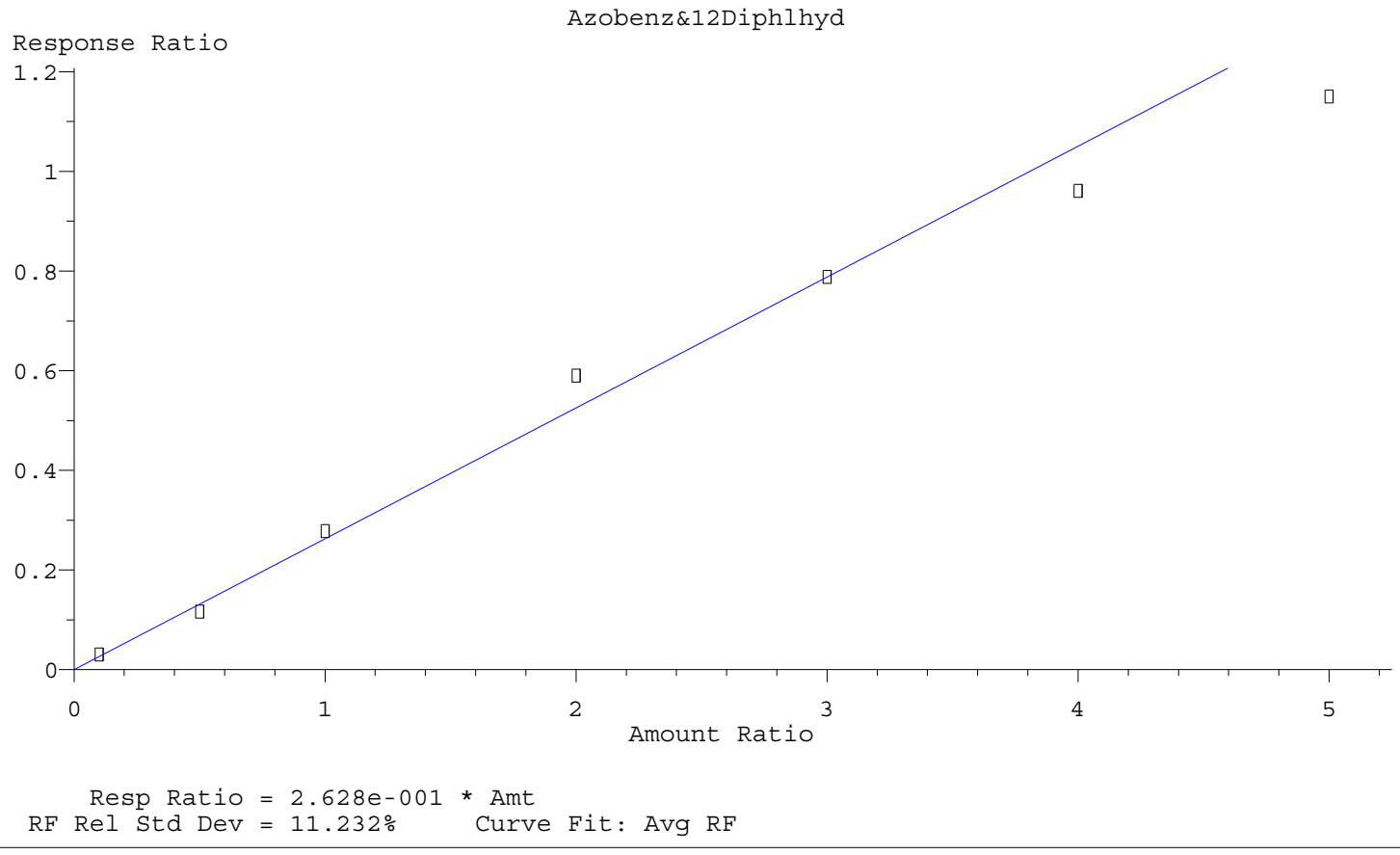
Resp Ratio = 4.732e-002 * Amt
RF Rel Std Dev = 10.043% Curve Fit: Avg RF



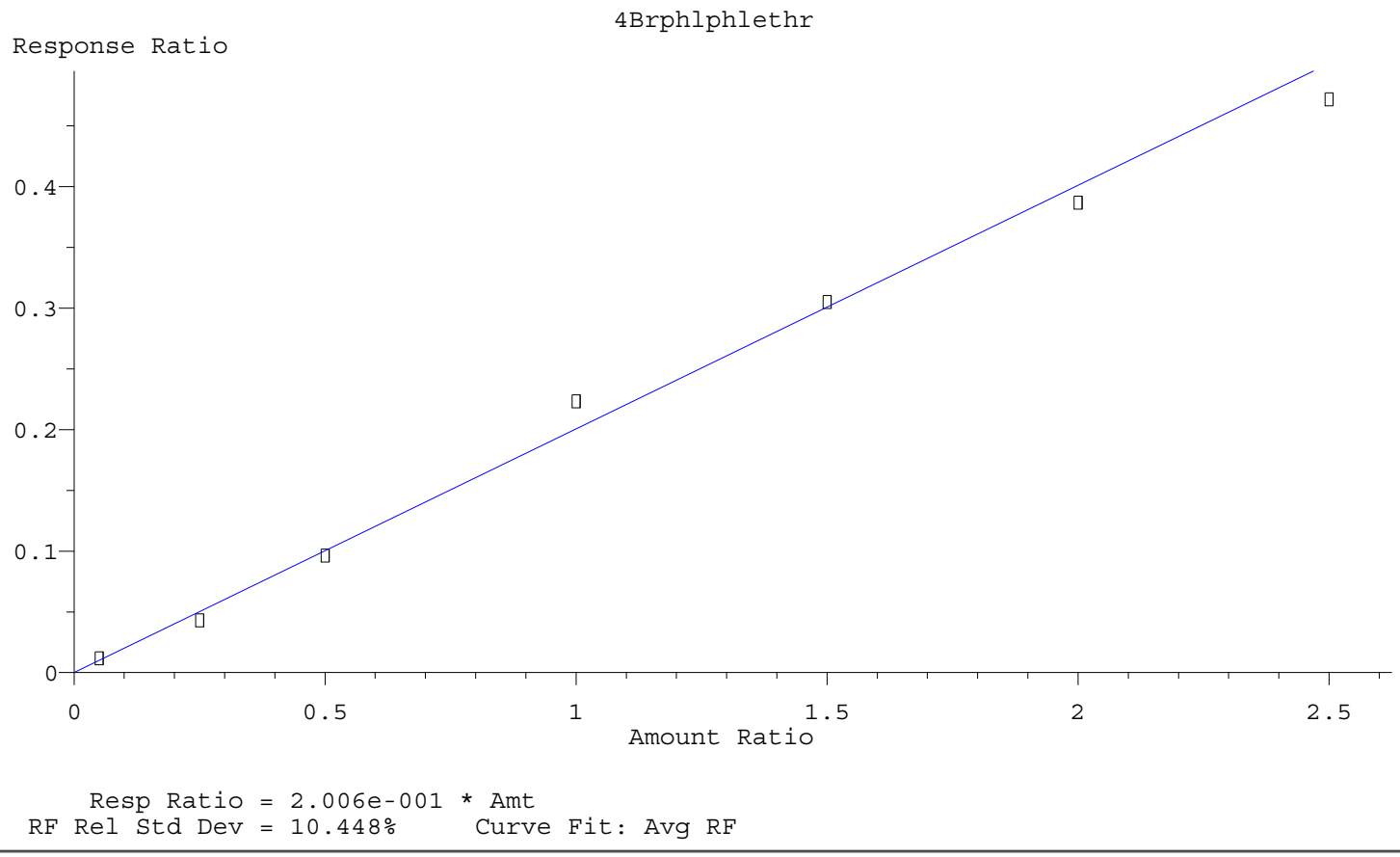
R = 1.667e-002 A*A + 1.493e-001 A + 0.000e+000
Coef of Det (r^2) = 0.993 Curve Fit: Quad w(1/a)/(0,0)



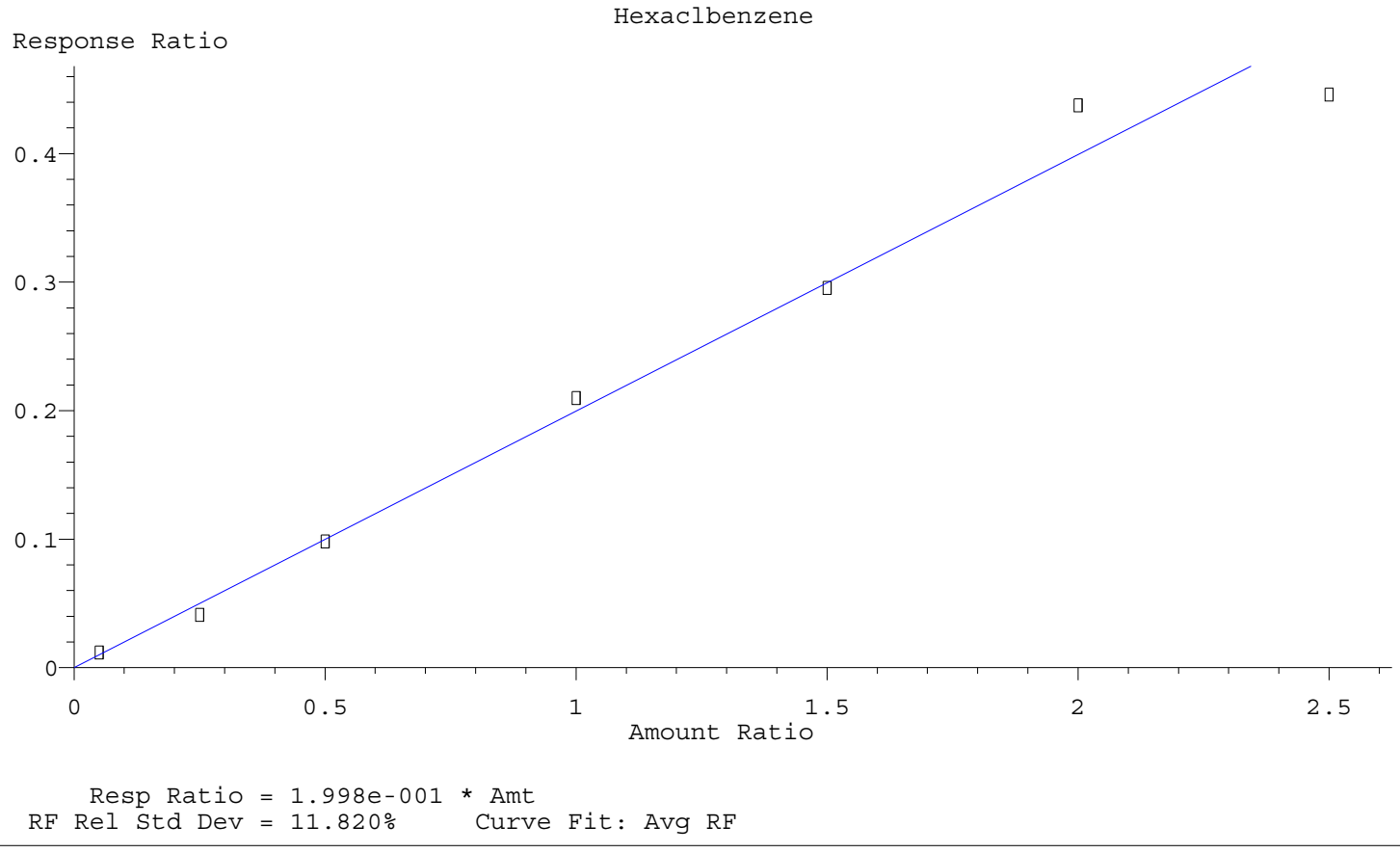
Resp Ratio = 5.991e-001 * Amt
RF Rel Std Dev = 13.424% Curve Fit: Avg RF



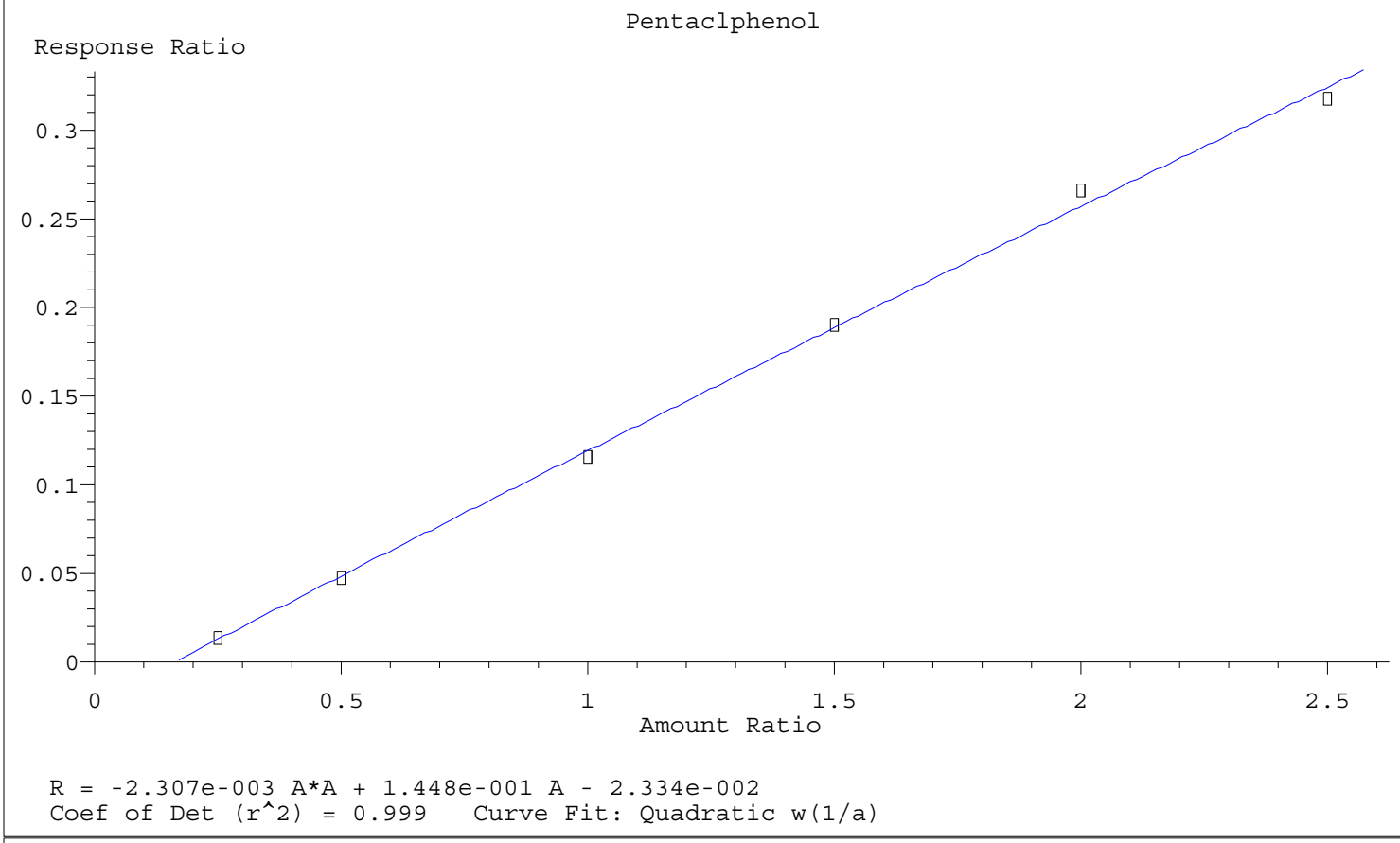
Resp Ratio = 2.628e-001 * Amt
RF Rel Std Dev = 11.232% Curve Fit: Avg RF



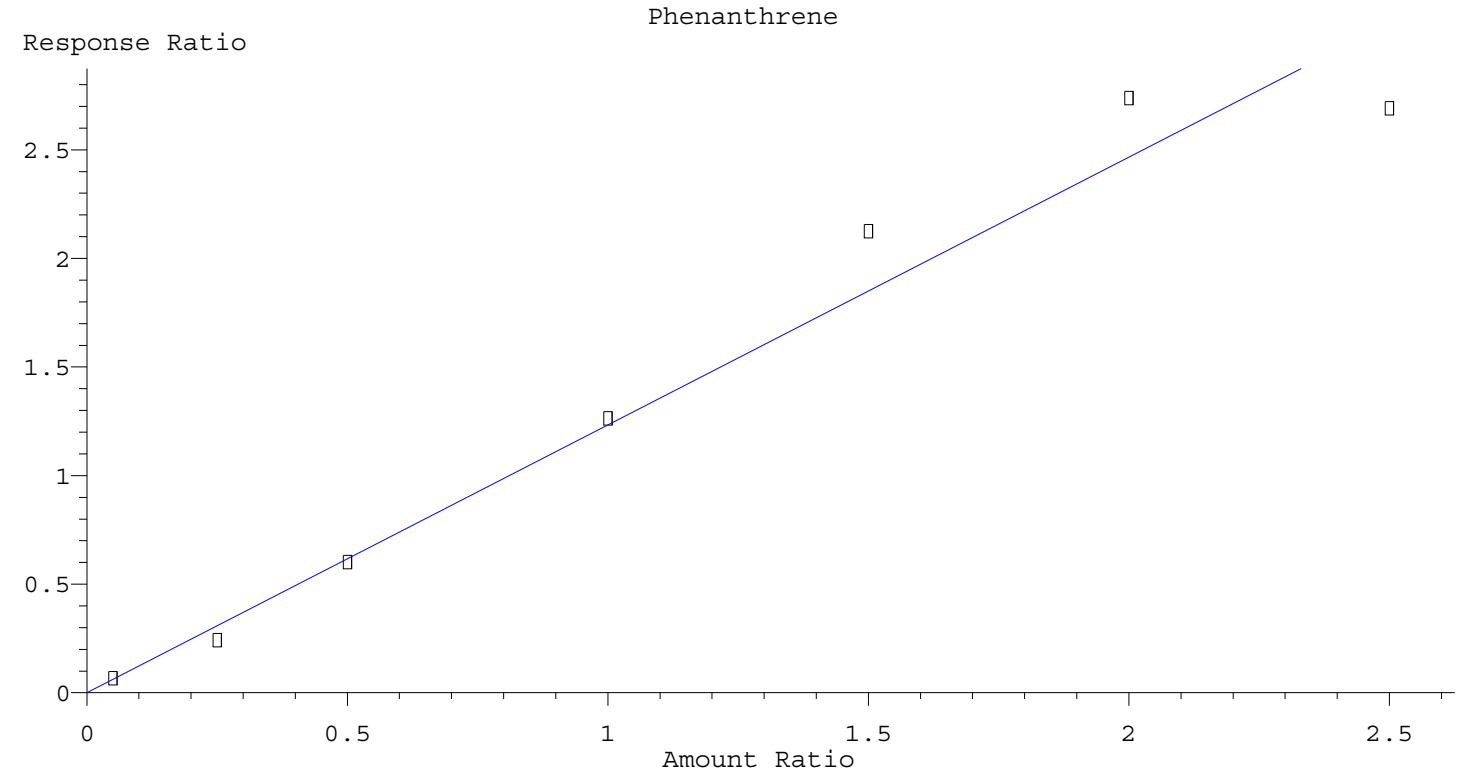
Resp Ratio = 2.006e-001 * Amt
RF Rel Std Dev = 10.448% Curve Fit: Avg RF



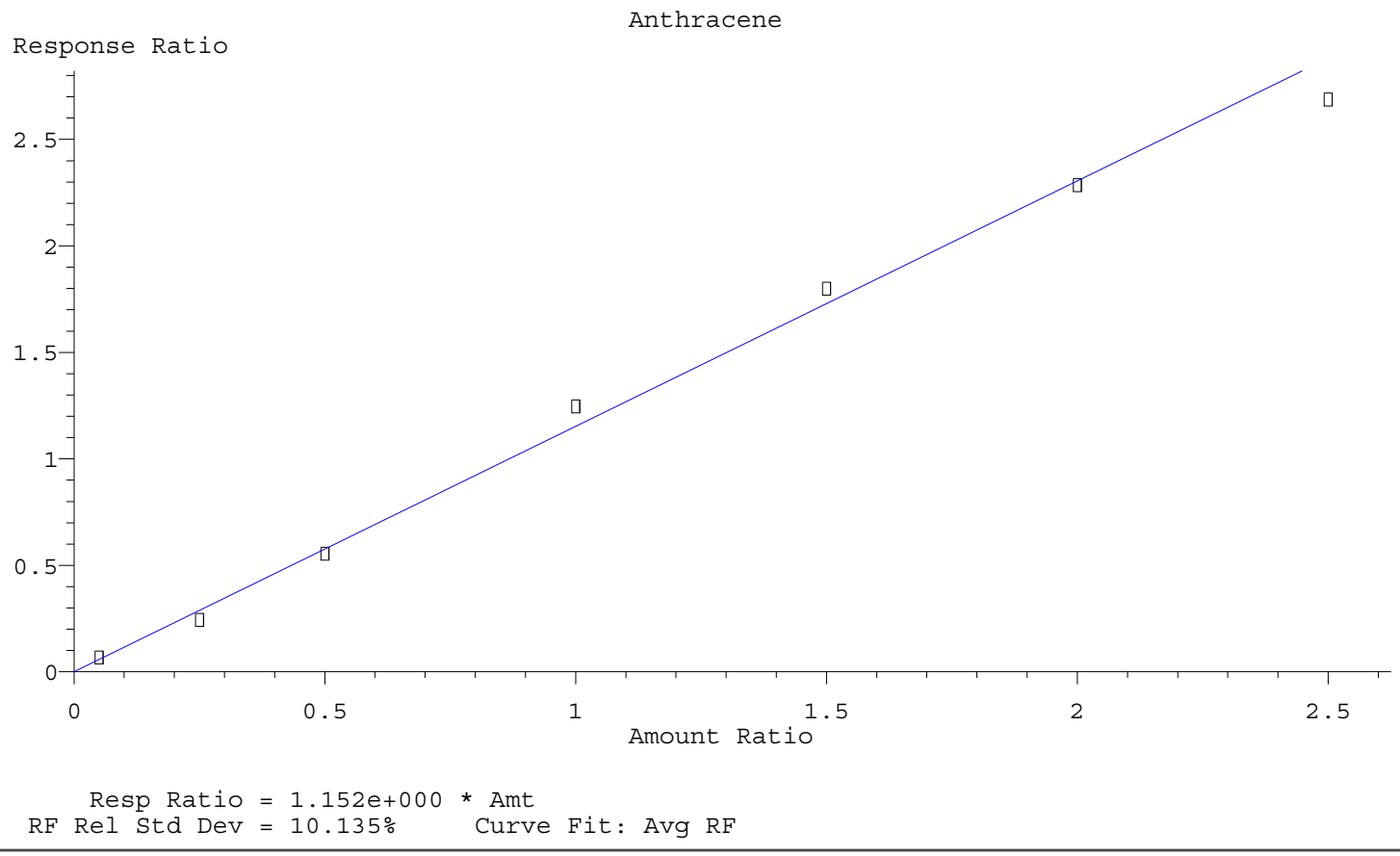
Resp Ratio = 1.998e-001 * Amt
RF Rel Std Dev = 11.820% Curve Fit: Avg RF



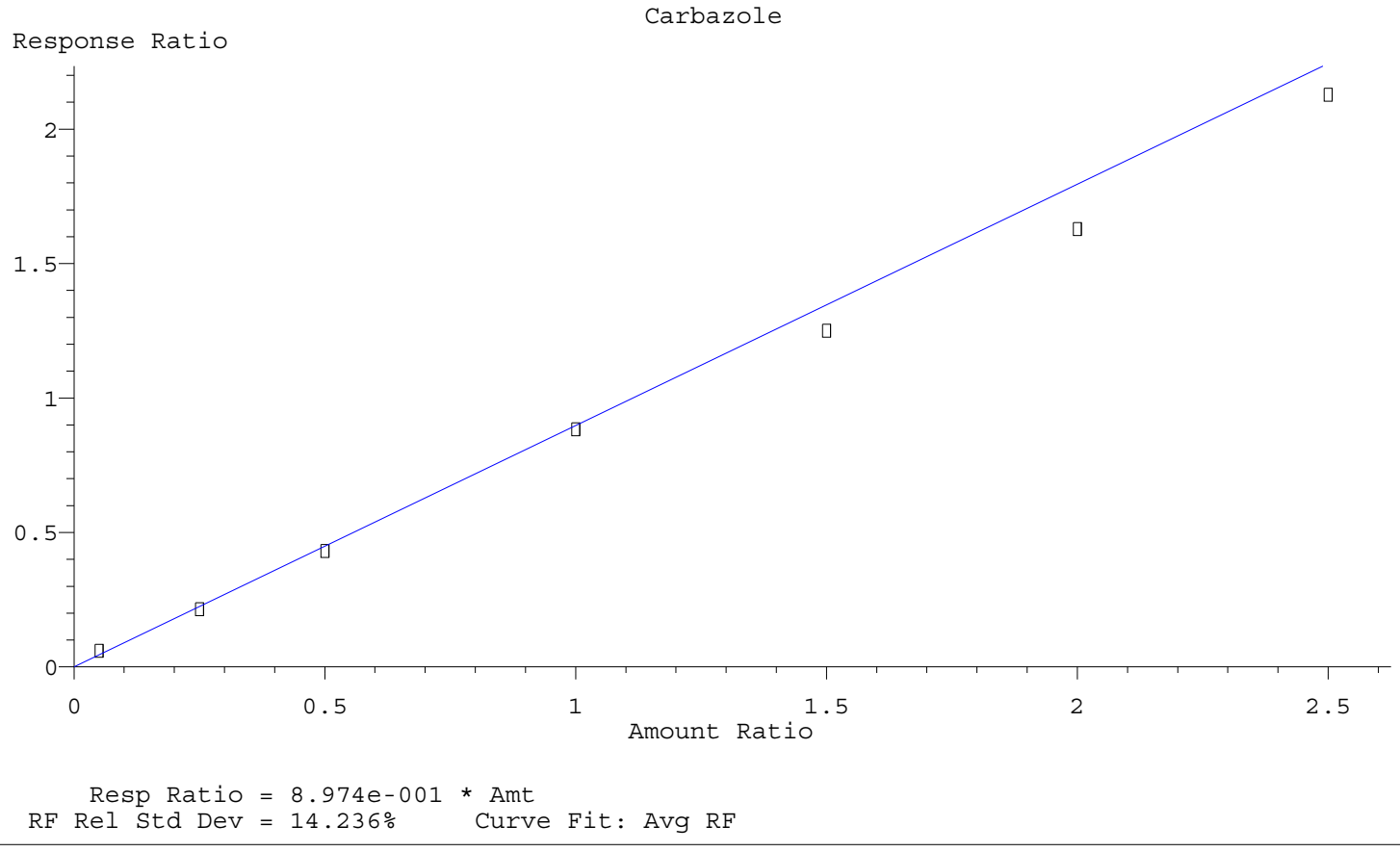
R = -2.307e-003 A*A + 1.448e-001 A - 2.334e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



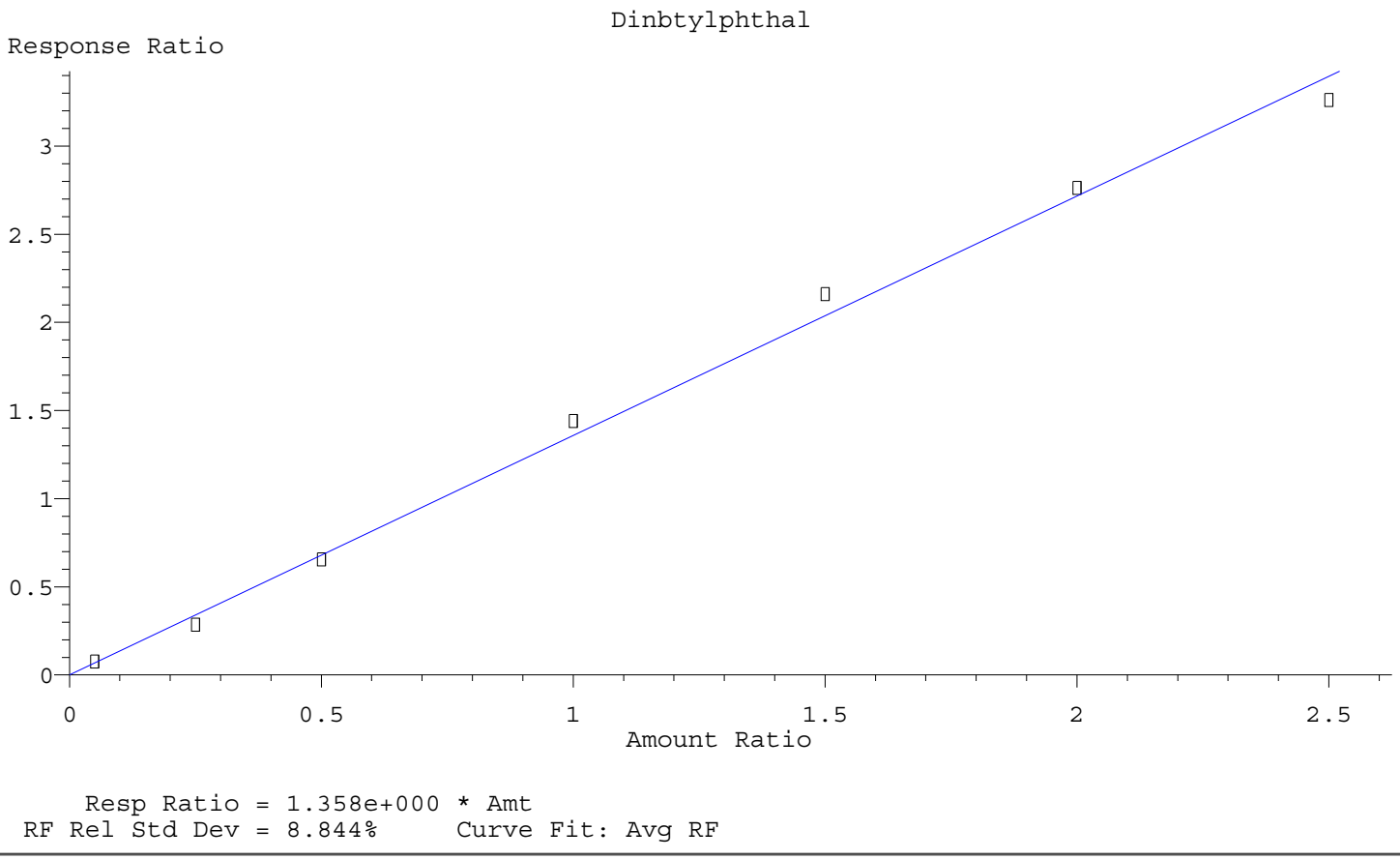
Resp Ratio = 1.233e+000 * Amt
RF Rel Std Dev = 13.309% Curve Fit: Avg RF



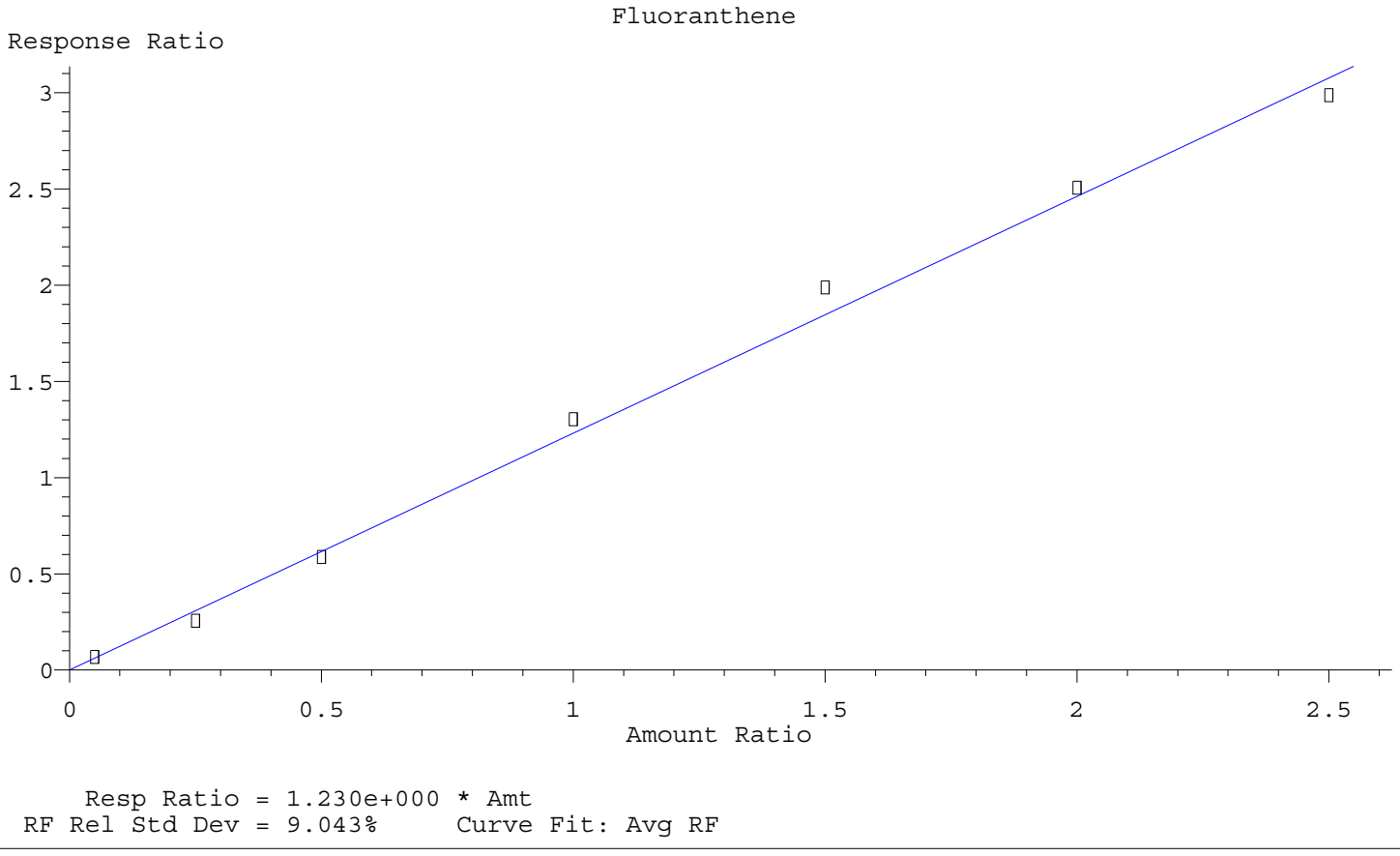
Resp Ratio = 1.152e+000 * Amt
RF Rel Std Dev = 10.135% Curve Fit: Avg RF



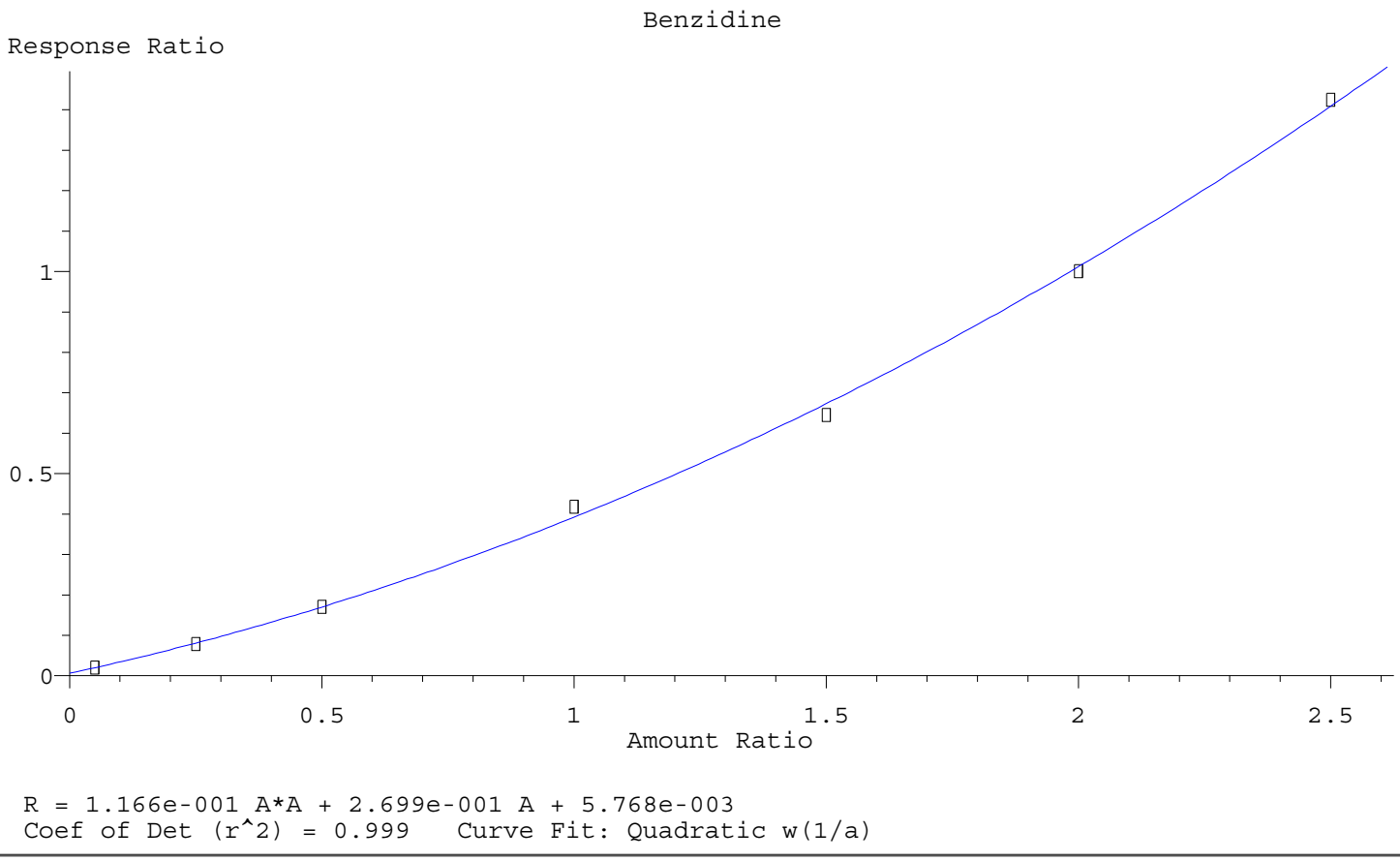
Resp Ratio = 8.974e-001 * Amt
RF Rel Std Dev = 14.236% Curve Fit: Avg RF



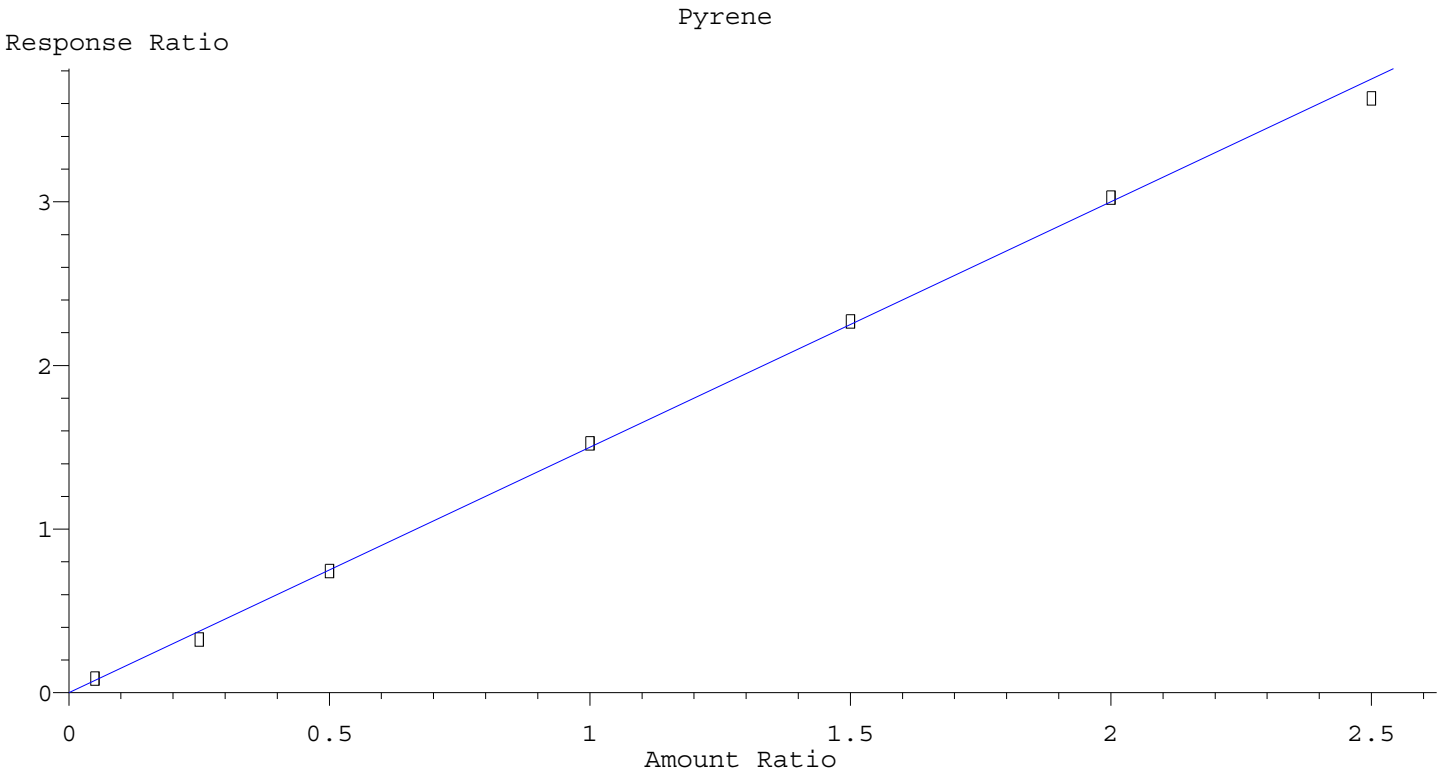
Resp Ratio = 1.358e+000 * Amt
RF Rel Std Dev = 8.844% Curve Fit: Avg RF



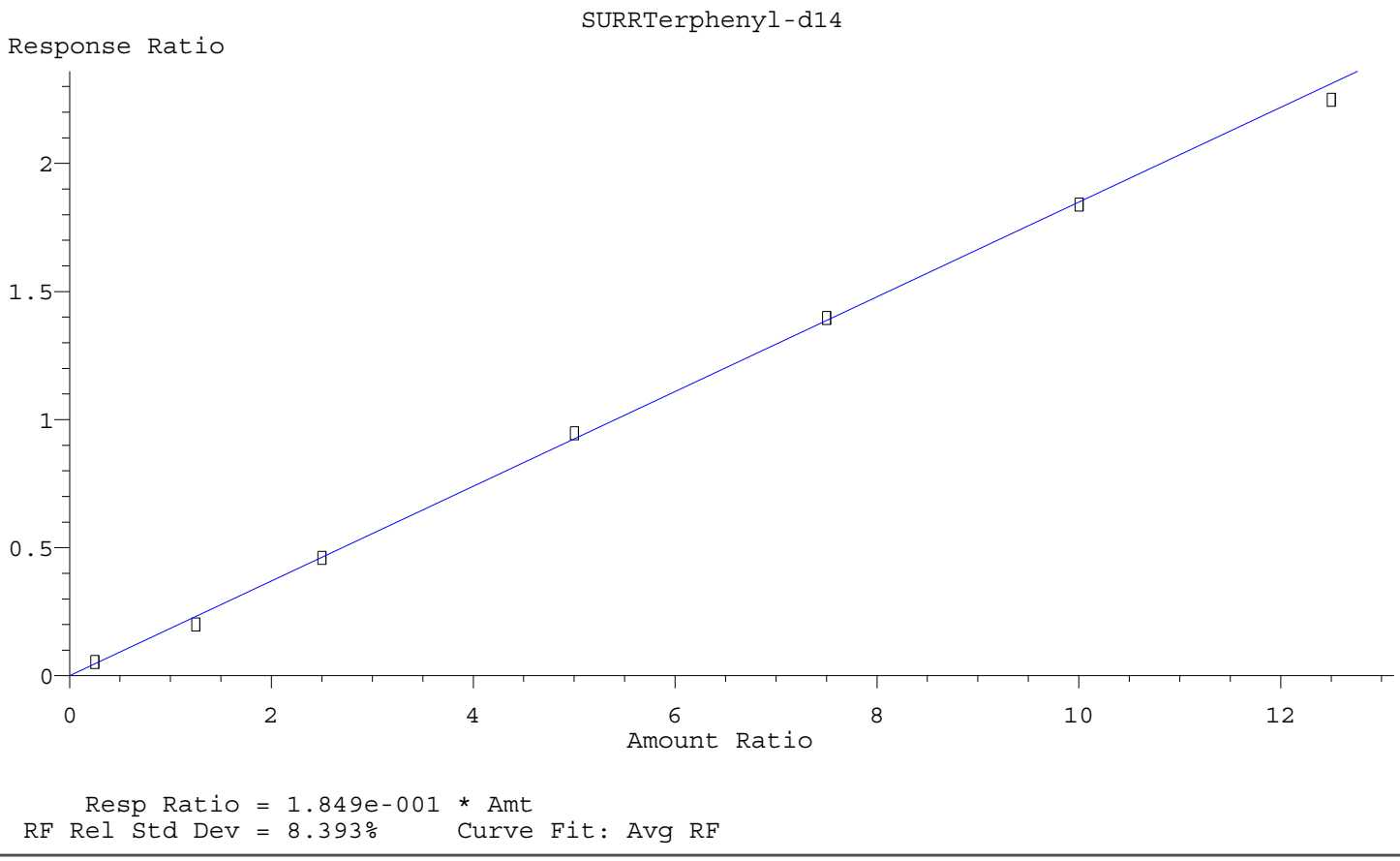
Resp Ratio = 1.230e+000 * Amt
RF Rel Std Dev = 9.043% Curve Fit: Avg RF



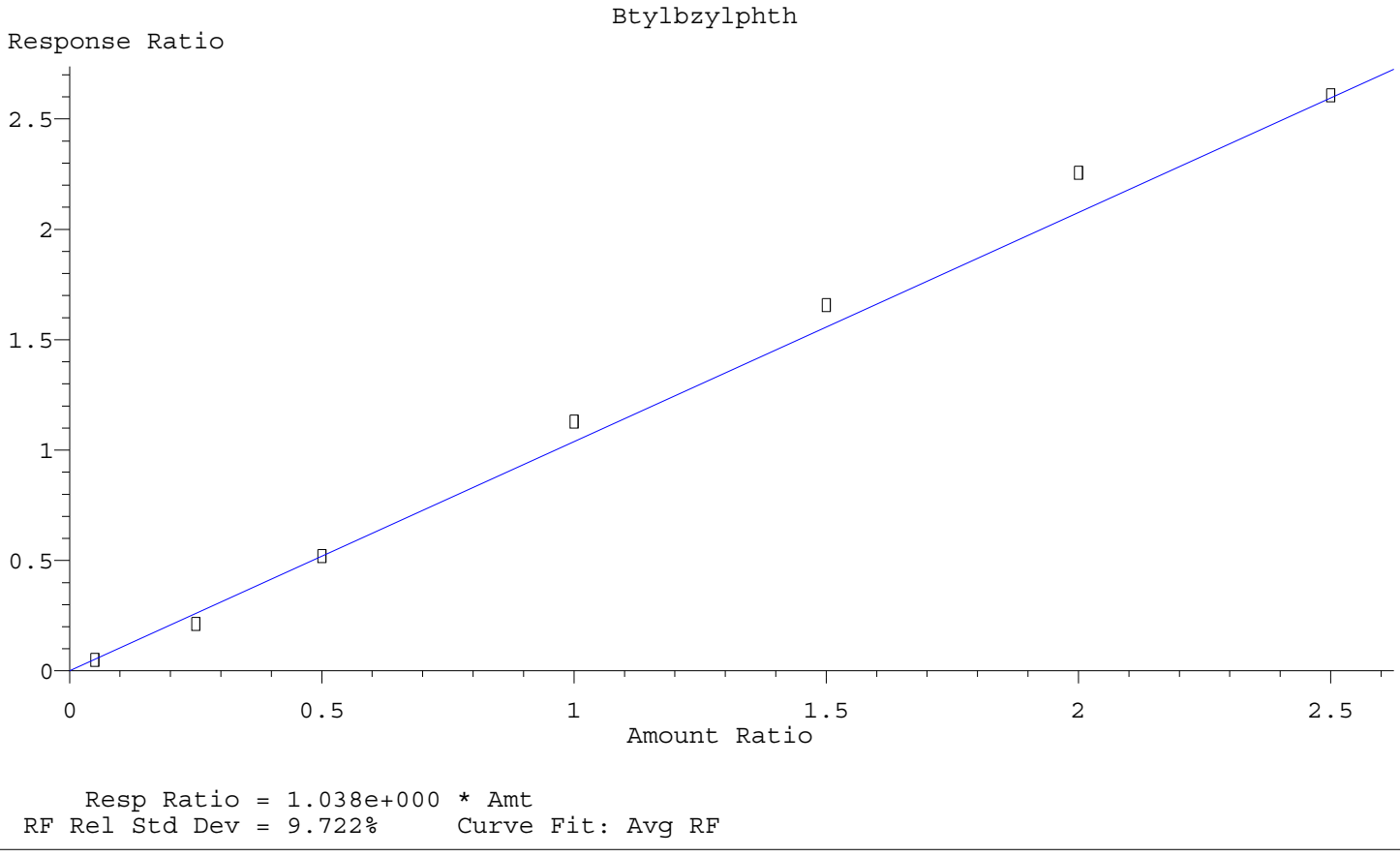
R = 1.166e-001 A*A + 2.699e-001 A + 5.768e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)



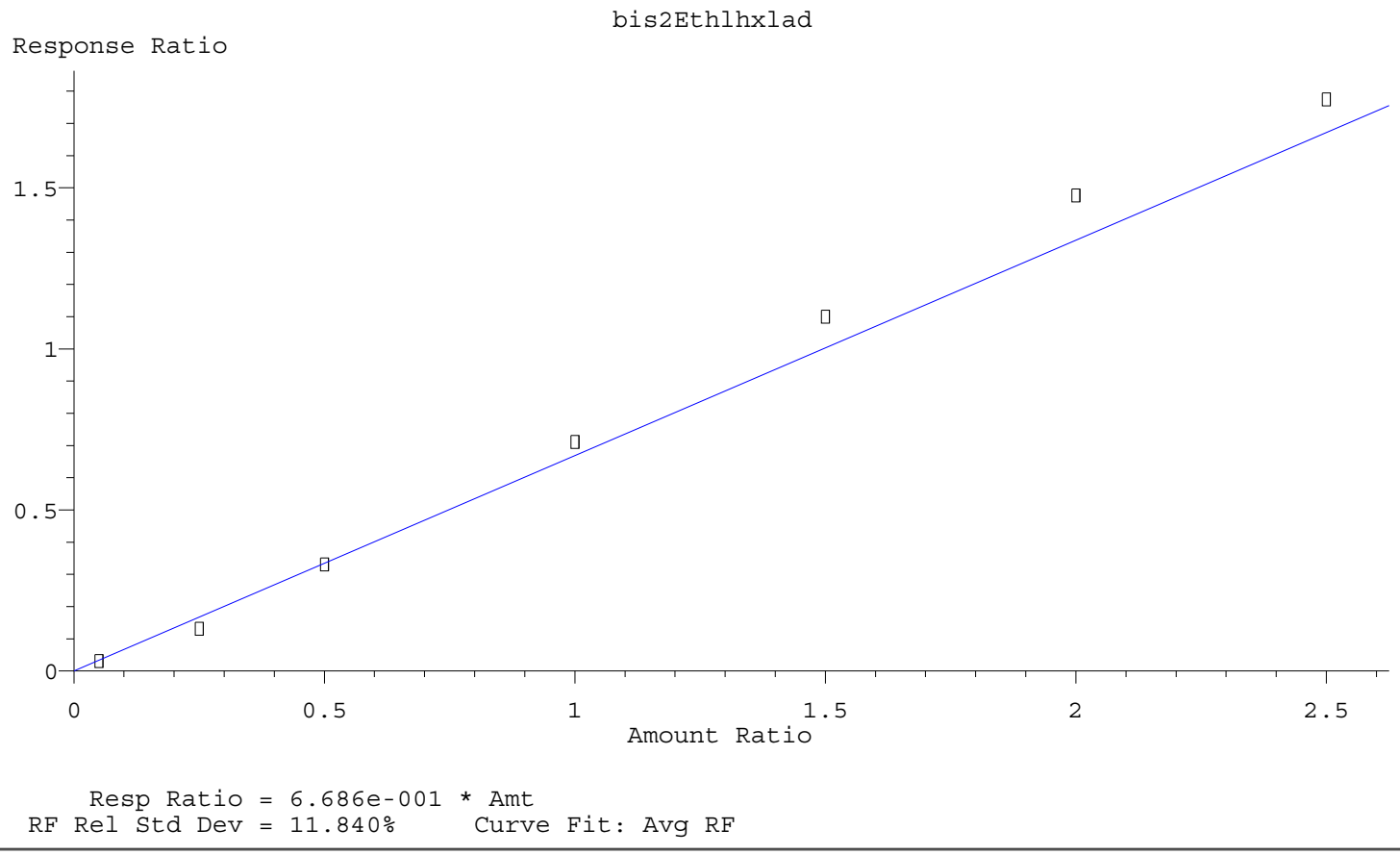
Resp Ratio = 1.500e+000 * Amt
RF Rel Std Dev = 8.405% Curve Fit: Avg RF



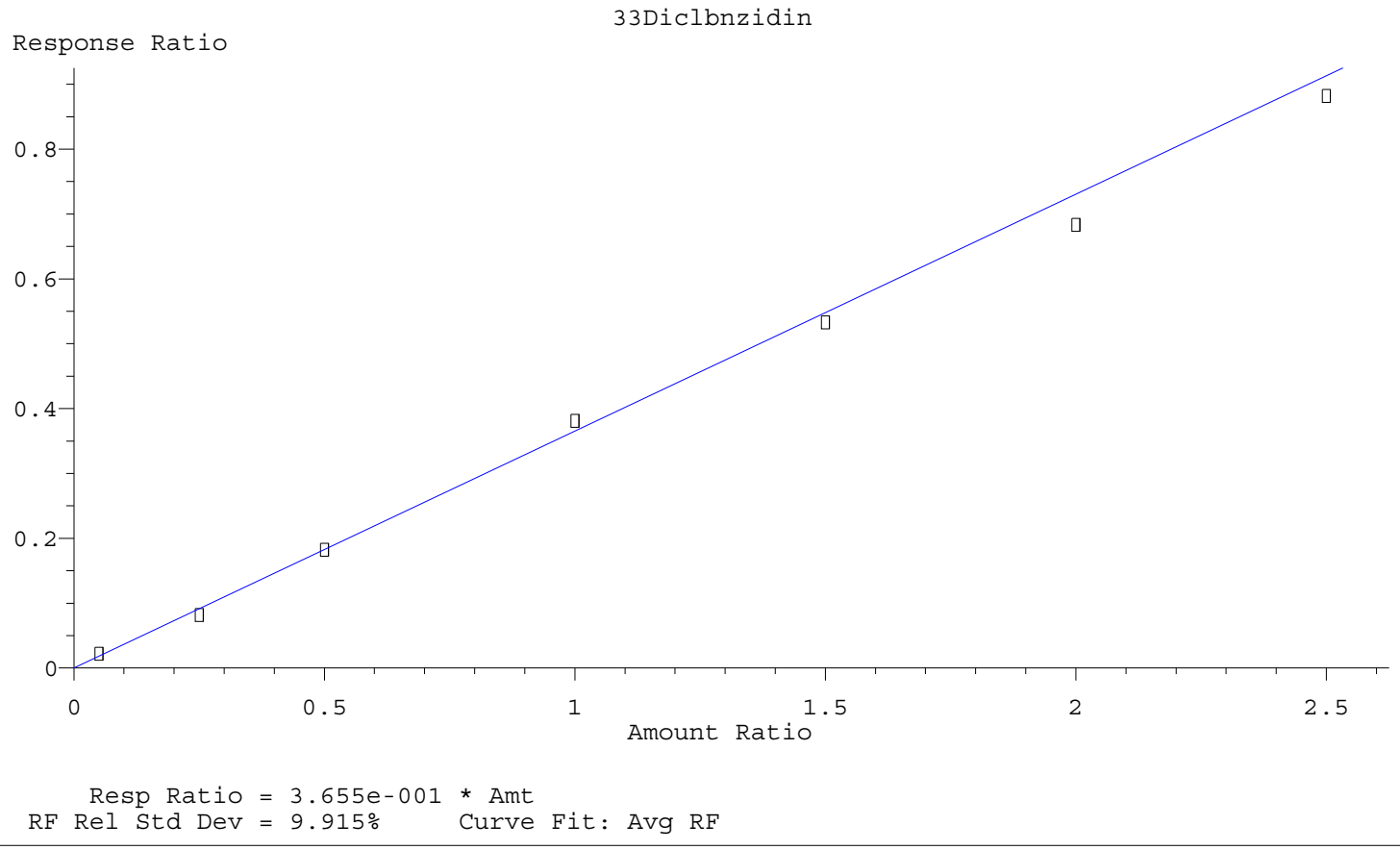
Resp Ratio = 1.849e-001 * Amt
RF Rel Std Dev = 8.393% Curve Fit: Avg RF



Resp Ratio = 1.038e+000 * Amt
RF Rel Std Dev = 9.722% Curve Fit: Avg RF

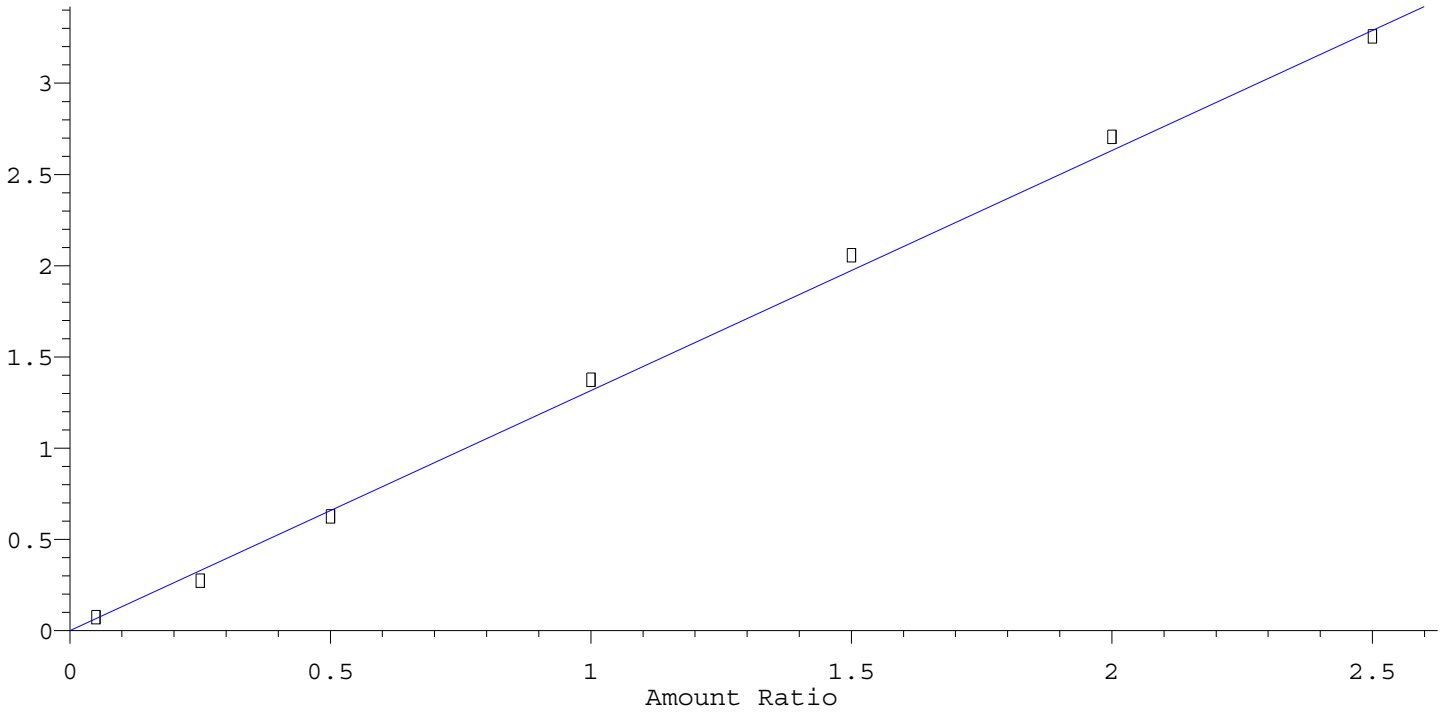


Resp Ratio = 6.686e-001 * Amt
RF Rel Std Dev = 11.840% Curve Fit: Avg RF



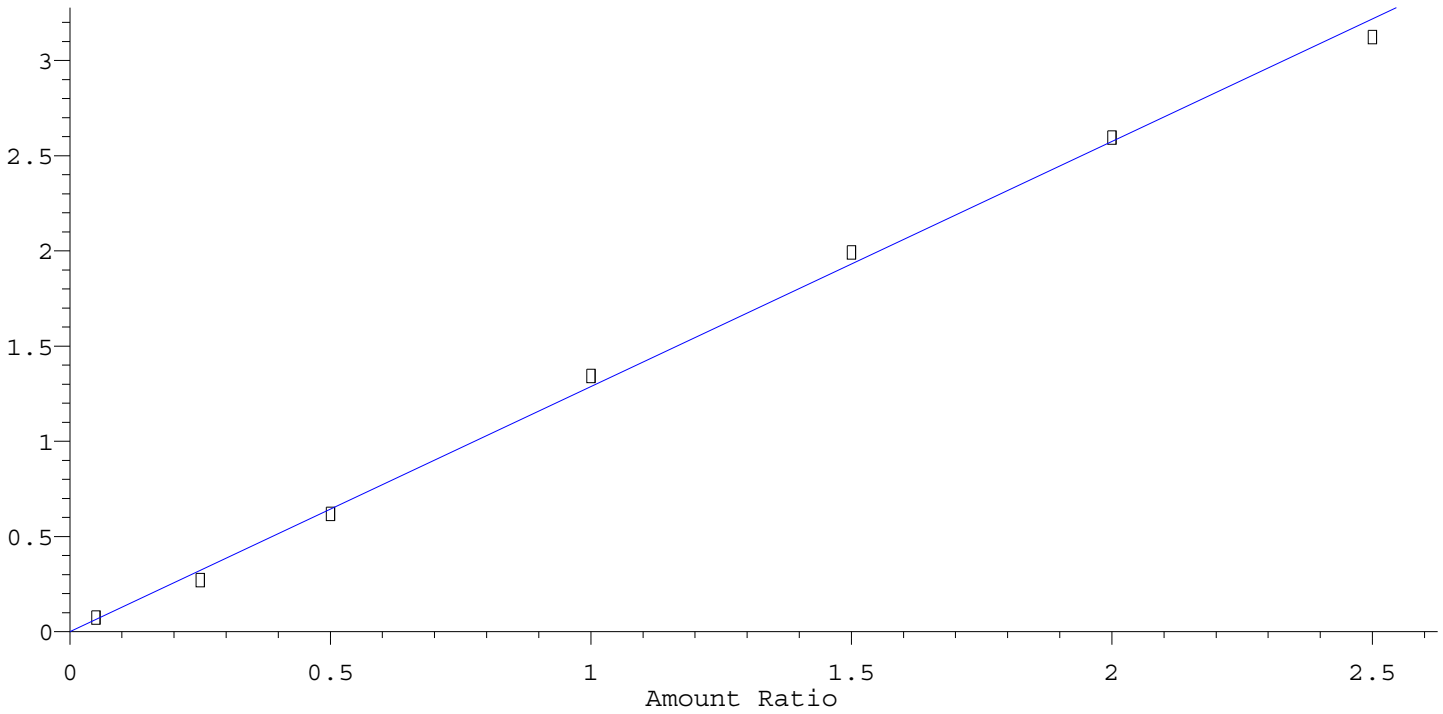
Resp Ratio = 3.655e-001 * Amt
RF Rel Std Dev = 9.915% Curve Fit: Avg RF

B[a]anthracen



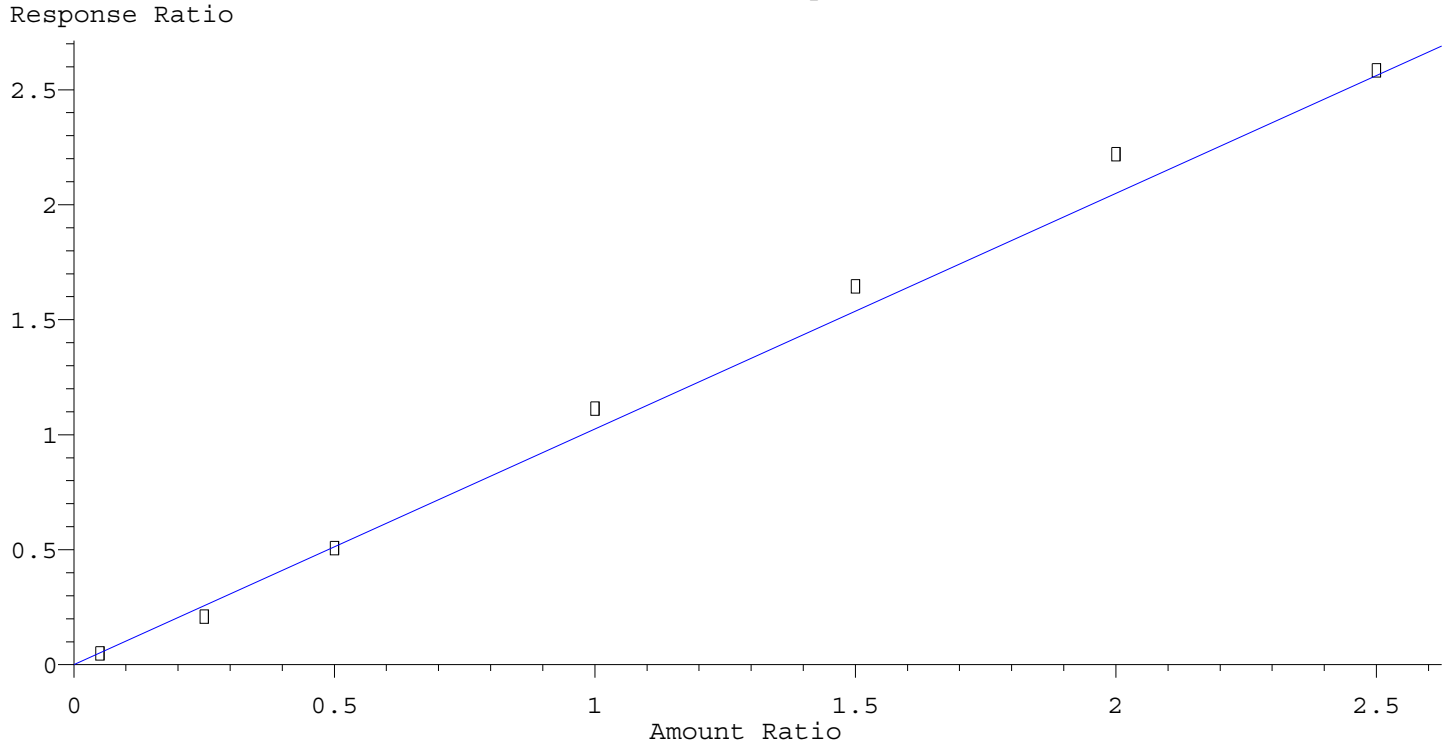
Resp Ratio = 1.316e+000 * Amt
RF Rel Std Dev = 8.901% Curve Fit: Avg RF

Chrysene



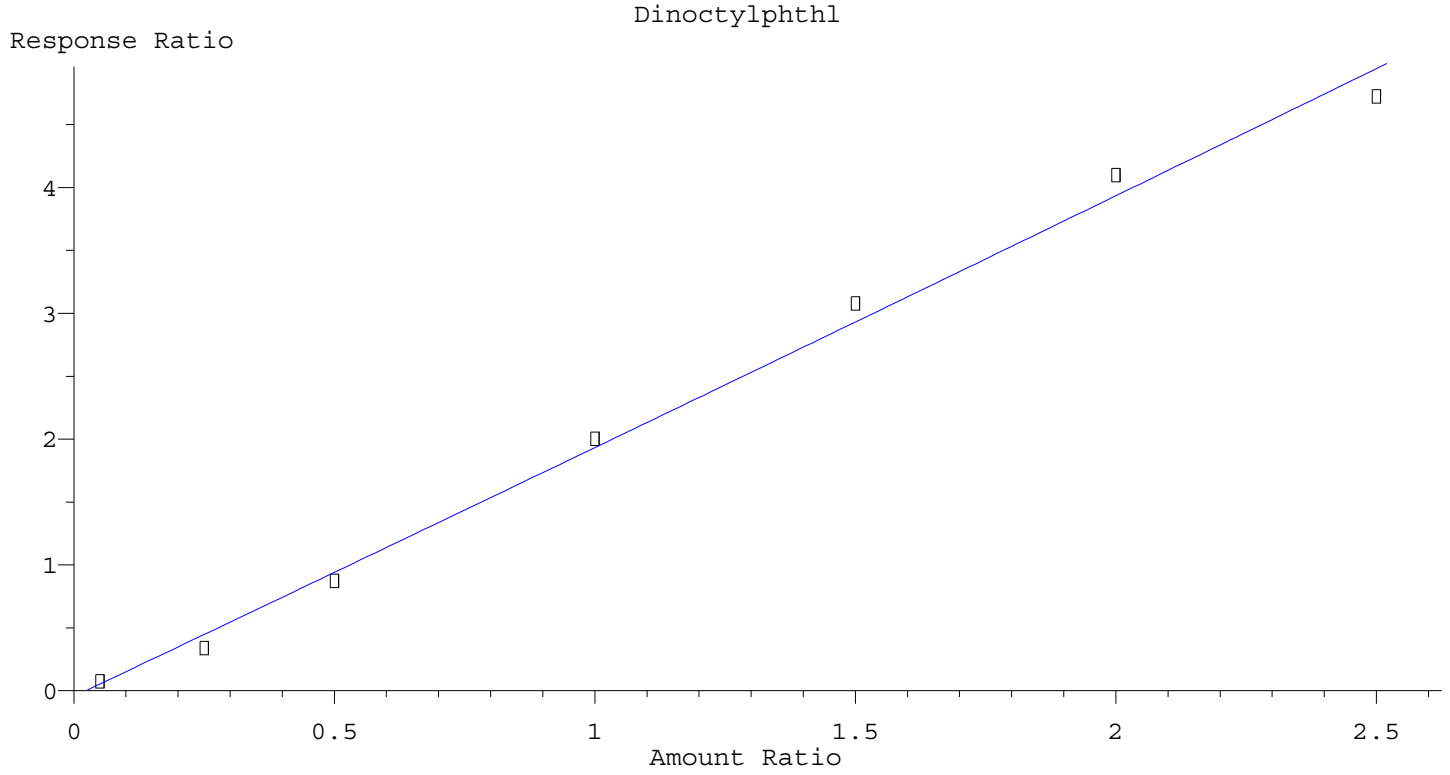
Resp Ratio = 1.287e+000 * Amt
RF Rel Std Dev = 9.429% Curve Fit: Avg RF

bis2Ethlhxlph

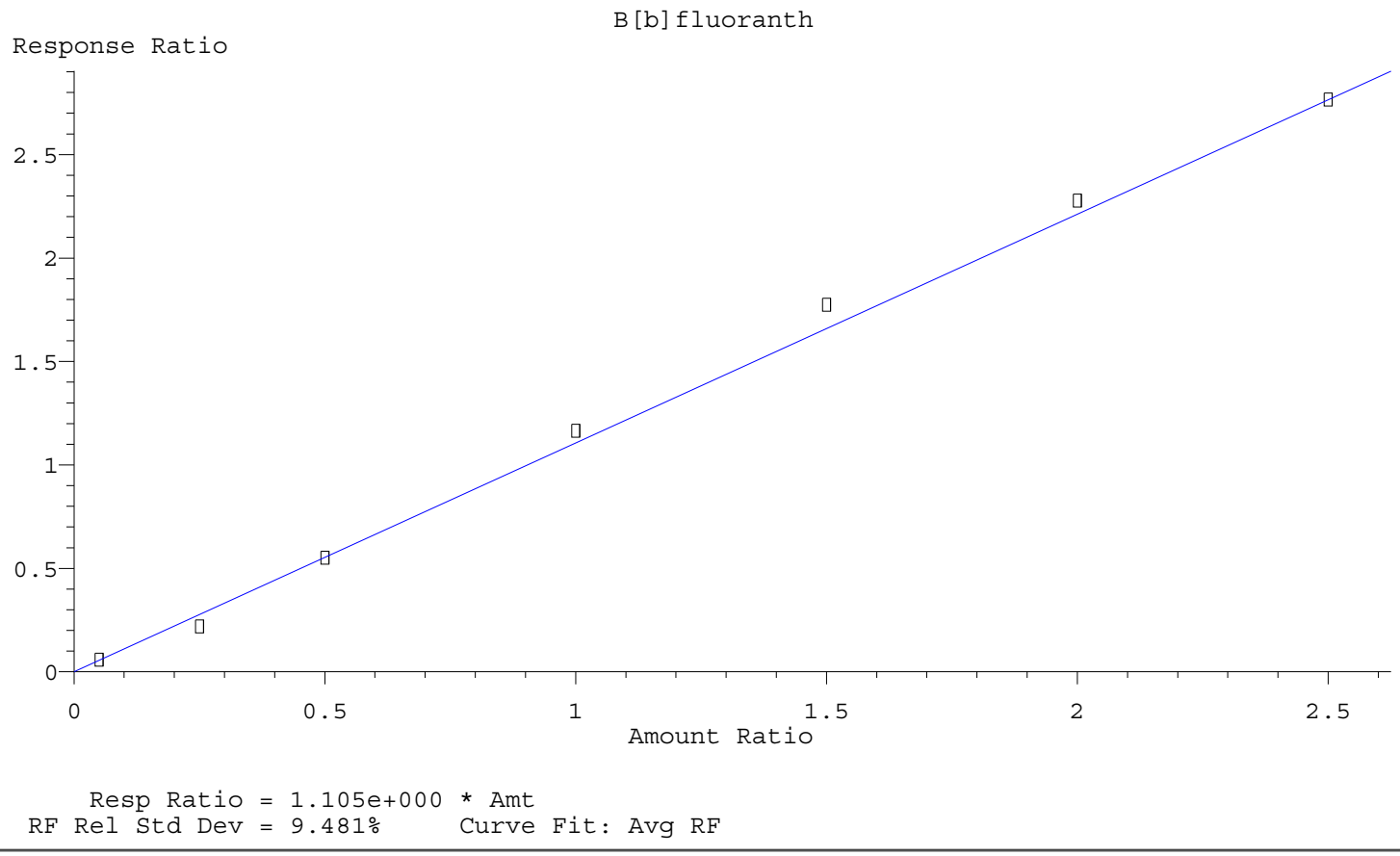


Resp Ratio = 1.025e+000 * Amt
RF Rel Std Dev = 9.712% Curve Fit: Avg RF

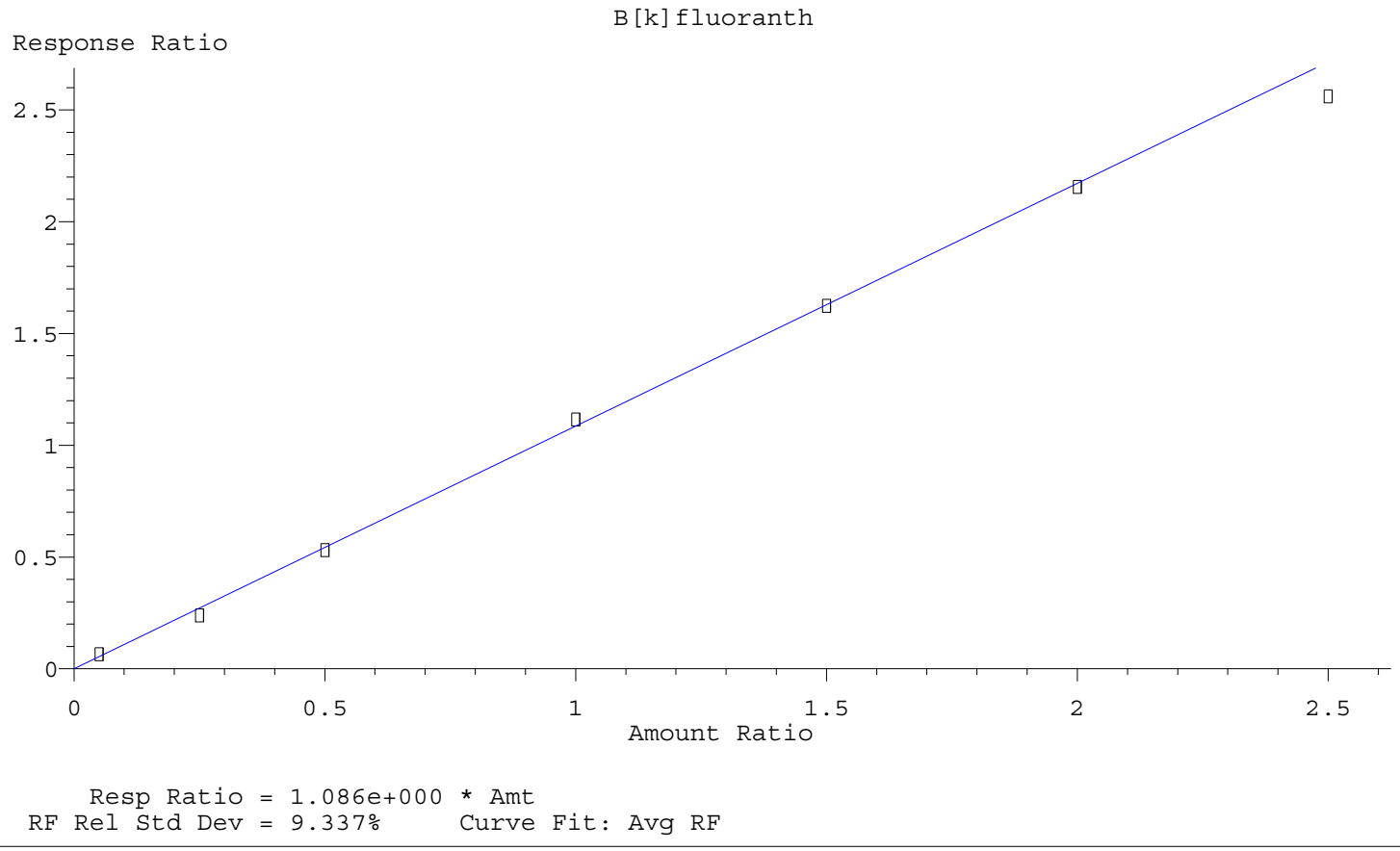
Dinoctylphthl



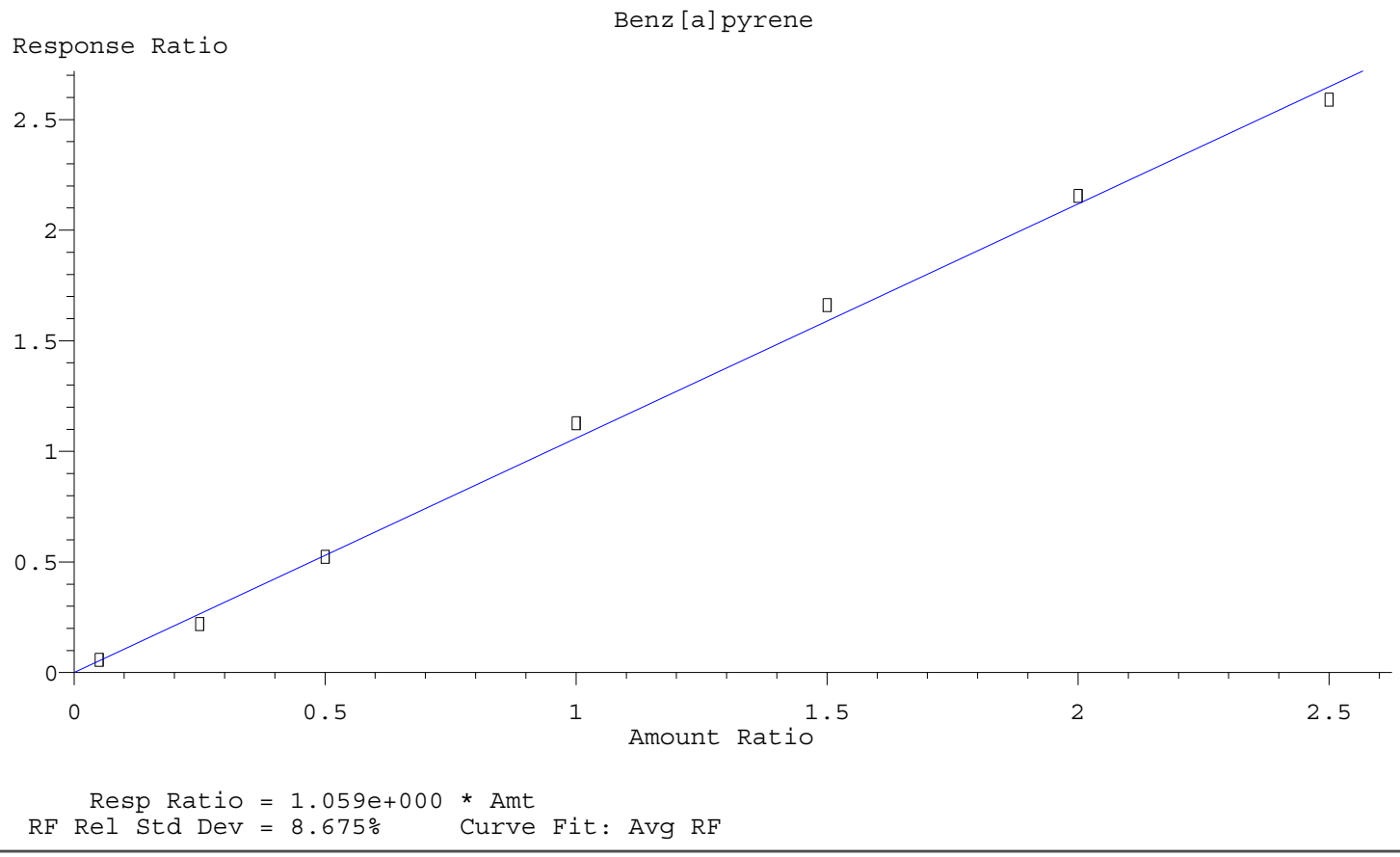
R = 1.211e-002 A*A + 1.966e+000 A - 4.574e-002
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a)



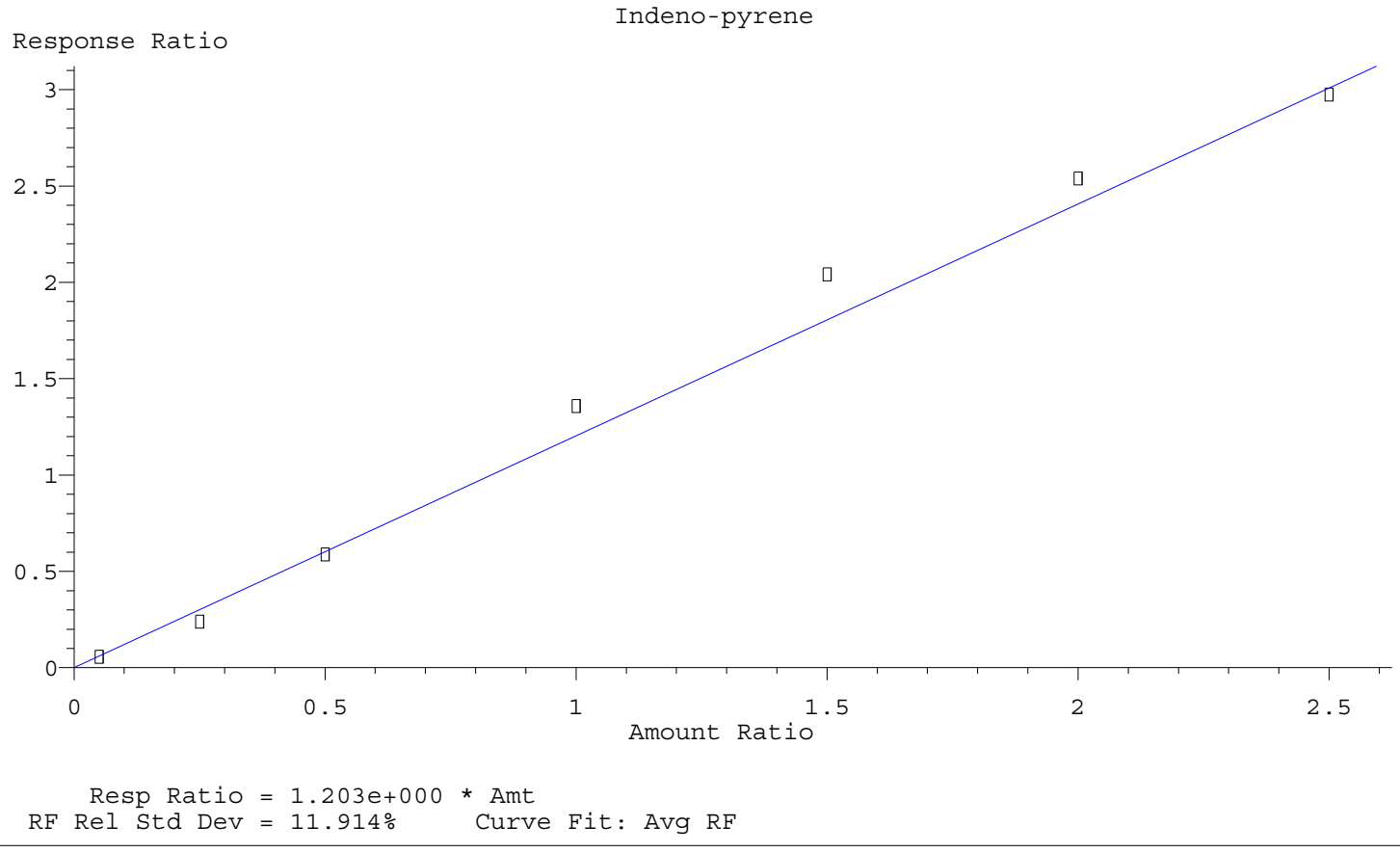
Resp Ratio = 1.105e+000 * Amt
RF Rel Std Dev = 9.481% Curve Fit: Avg RF



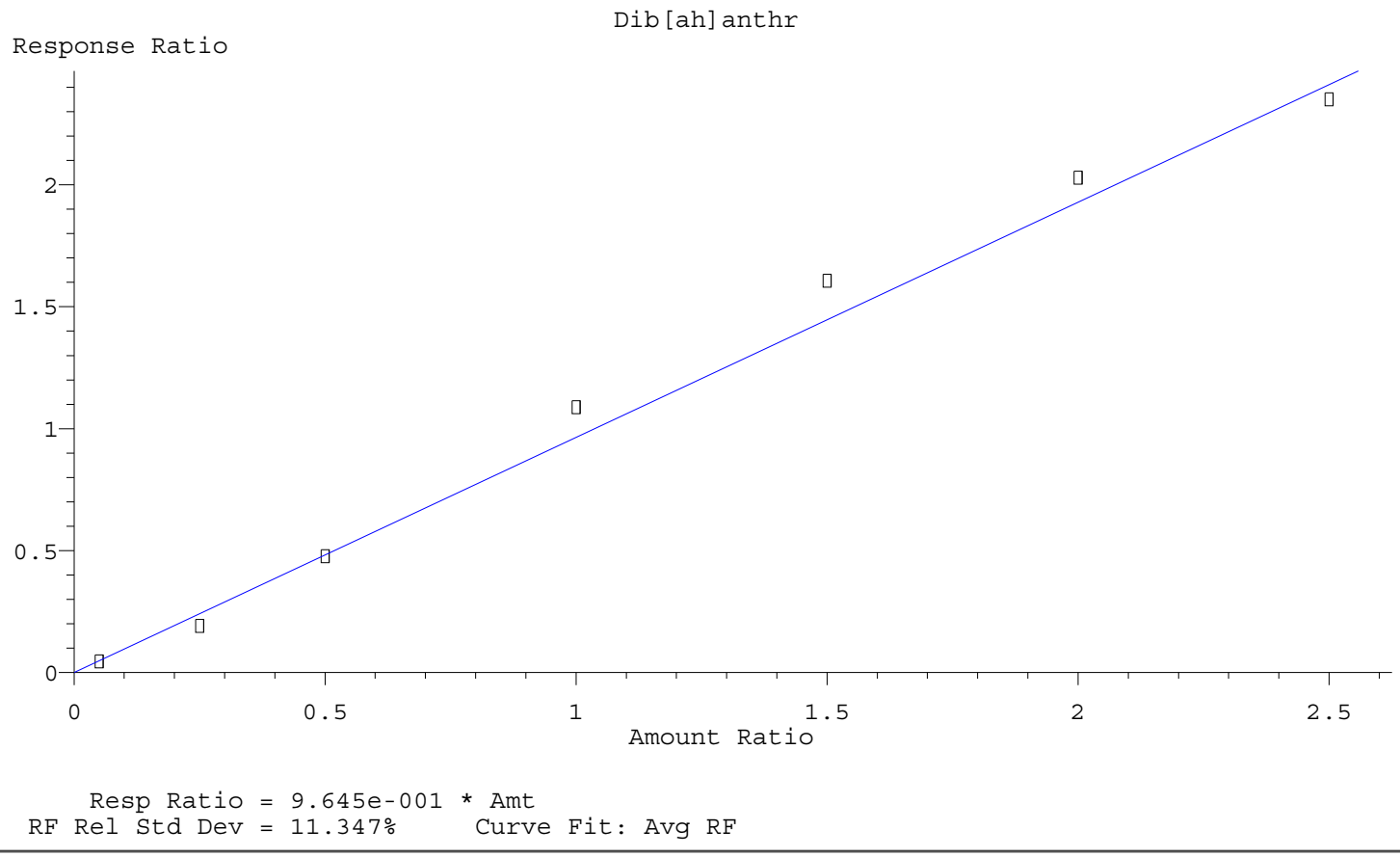
Resp Ratio = 1.086e+000 * Amt
RF Rel Std Dev = 9.337% Curve Fit: Avg RF



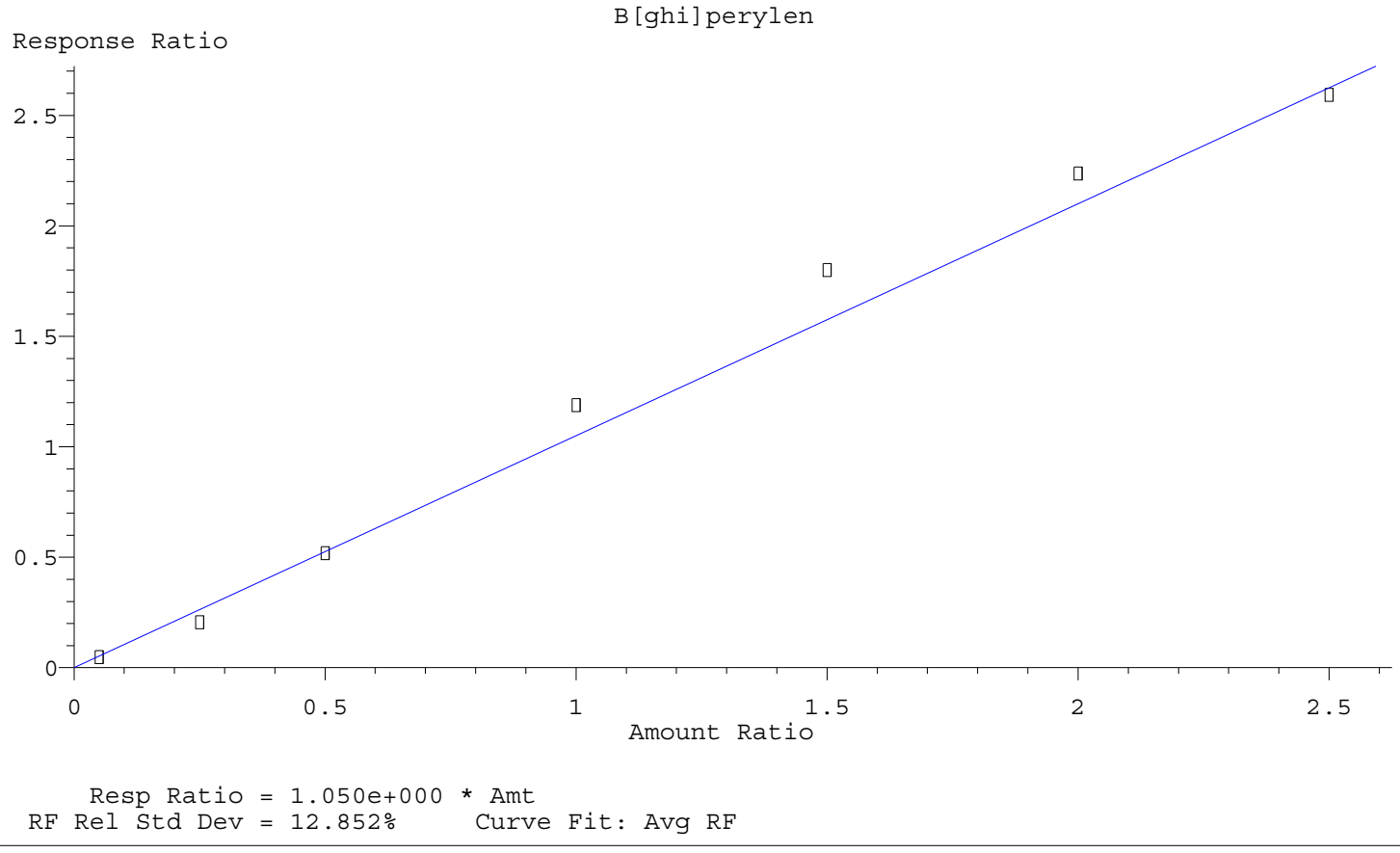
Resp Ratio = 1.059e+000 * Amt
RF Rel Std Dev = 8.675% Curve Fit: Avg RF



Resp Ratio = 1.203e+000 * Amt
RF Rel Std Dev = 11.914% Curve Fit: Avg RF



Resp Ratio = 9.645e-001 * Amt
RF Rel Std Dev = 11.347% Curve Fit: Avg RF



Resp Ratio = 1.050e+000 * Amt
RF Rel Std Dev = 12.852% Curve Fit: Avg RF

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2IB01.D Vial: 99
Acq On : 19 Nov 2019 10:50 Operator: RPN
Sample : InstrumentBlank Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 15:03:30 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

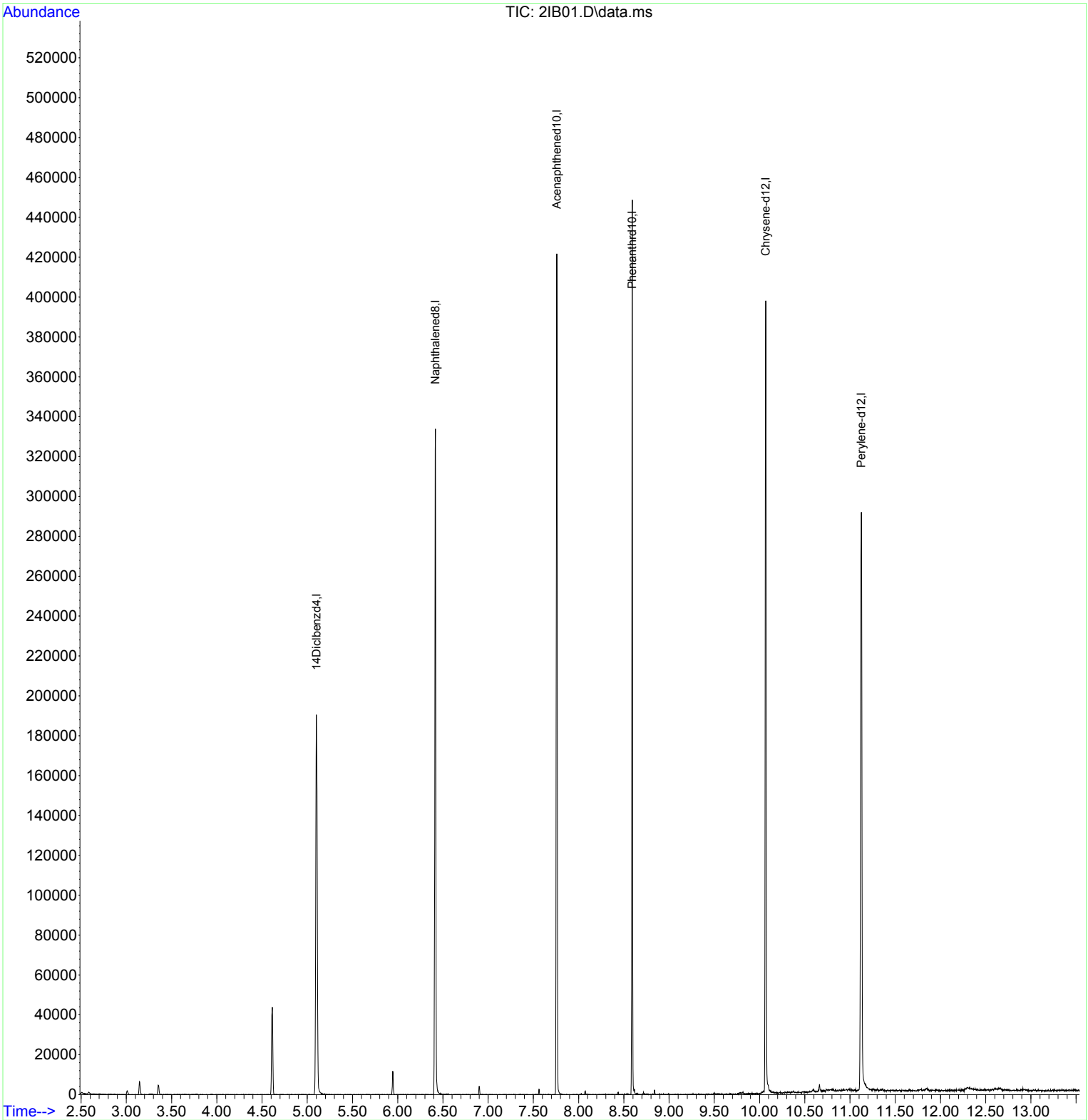
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.101	152	34768	20.00	ug/mL	0.00
21) Naphthalened8	6.416	136	128534	20.00	ug/mL	0.00
39) Acenaphthened10	7.758	164	66152	20.00	ug/mL	0.00
63) Phenanthrd10	8.593	188	93571	20.00	ug/mL	0.00
75) Chrysene-d12	10.068	240	88482	20.00	ug/mL	0.00
86) Perylene-d12	11.125	264	104439	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	0.000	112	0	0.00	%REC	
Spiked Amount 100.000			Recovery =	0.00%		
7) SURRPhenol-d5	0.000	99	0	0.00	%REC	
Spiked Amount 100.000			Recovery =	0.00%		
22) SURRNitrbenzened5	0.000	82	0	0.00	%REC	
Spiked Amount 100.000			Recovery =	0.00%		
44) SURR2Flbiphenyl	0.000	172	0	0.00	%REC	
Spiked Amount 100.000			Recovery =	0.00%		
62) SURR246Tribrphenl	0.000	330	0	0.00	%REC	
Spiked Amount 100.000			Recovery =	0.00%		
78) SURRTerphenyl-d14	0.000	244	0	0.00	%REC	
Spiked Amount 100.000			Recovery =	0.00%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2IB01.D Vial: 99
Acq On : 19 Nov 2019 10:50 Operator: RPN
Sample : InstrumentBlank Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 15:03:30 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL7.D Vial: 2
Acq On : 19 Nov 2019 11:12 Operator: RPN
Sample : ICAL 50ug/mL SVMS8532 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:43:40 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:37:55 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.104	152	43182	20.00	ug/mL	0.00
21) Naphthalened8	6.422	136	145455	20.00	ug/mL	0.00
39) Acenaphthened10	7.766	164	72280	20.00	ug/mL	0.00
63) Phenanthrd10	8.596	188	87873	20.00	ug/mL	0.00
75) Chrysene-d12	10.079	240	74446	20.00	ug/mL	0.01
86) Perylene-d12	11.133	264	91074	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.751	112	167544	136.11	%REC	0.00
Spiked Amount 100.000			Recovery = 136.11%			
7) SURRPhenol-d5	4.649	99	204996	129.53	%REC	0.00
Spiked Amount 100.000			Recovery = 129.53%			
22) SURRNitrbenzened5	5.726	82	166499	261.62	%REC	0.00
Spiked Amount 100.000			Recovery = 261.62%			
44) SURR2Flbiphenyl	7.300	172	239228	242.60	%REC	0.00
Spiked Amount 100.000			Recovery = 242.60%			
62) SURR246Tribrphenl	8.266	330	18841	110.16	%REC	0.01
Spiked Amount 100.000			Recovery = 110.16%			
78) SURRTerphenyl-d14	9.403	244	167319	243.08	%REC	0.00
Spiked Amount 100.000			Recovery = 243.08%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.859	74	135662	48.9810	ug/mL	99
3) Pyridine	2.890	79	192388	48.6981	ug/mL	95
5) Aniline	4.715	93	264737	54.1065	ug/mL	98
6) bis2Clethletr	4.771	93	178230	48.6757	ug/mL	100
8) Phenol	4.666	94	208198	50.8357	ug/mL	97
9) 2-Cl-phenol	4.854	128	159292	50.9335	ug/mL	99
10) 13Diclbenz	5.036	146	167551	49.4343	ug/mL	97
11) 14Diclbenz	5.127	146	165212	48.9064	ug/mL	96
12) 12Diclbenz	5.308	146	147612	48.1337	ug/mL	98
13) Benzyl alcoho	5.271	108	103861	48.2264	ug/mL	97
14) bis2clispreth	5.416	45	240636	47.2124	ug/mL	98
15) 2Methylphenol	5.397	107	117510	49.3418	ug/mL	96
16) Ntrspyrrol	5.556	100	78222	47.8352	ug/mL	77
17) Acetophenone	5.570	105	186833	46.1624	ug/mL	93
18) Hexaclethane	5.675	117	61037	48.2695	ug/mL	99
19) N-Ntrsdinprop	5.573	70	118838	47.1691	ug/mL	97
20) 3&4Methylphenol	5.570	107	134360	46.2651	ug/mL	87
23) Nitrobenzene	5.746	77	169875	50.8567	ug/mL	98
24) Isophorone	5.993	82	311071	52.8567	ug/mL	98
25) 2-Nitrophenol	6.064	139	77515	54.4154	ug/mL	98
26) 24Dimthpheno	6.115	122	123303	53.1309	ug/mL	96
27) bis2clethoxym	6.201	93	172128	51.1239	ug/mL	99
28) 24Diclphenol	6.300	162	102413	52.4639	ug/mL	98
29) 124Triclbenz	6.371	180	105030	49.1553	ug/mL	95
30) Benzoic acid	6.249	122	83465	49.5875	ug/mL	96
31) Naphthalene	6.442	128	371727	48.2579	ug/mL	99
32) 4-Cl-aniline	6.496	127	147535	55.8559	ug/mL	97
33) 26Diclphenol	6.502	162	73290	50.1043	ug/mL	98
34) Hexaclprop	6.519	213	64935	50.9497	ug/mL	99
35) Hexaclbutdien	6.553	225	49208	48.2498	ug/mL	99
36) 4Cl3methylphe	6.917	107	125820	54.9570	ug/mL	96
37) 2Methylnaphth	7.022	142	254433	48.7318	ug/mL	98
38) 1Methylnaphth	7.099	141	208666	48.5981	ug/mL	99
40) Hxclcycpentdi	7.144	237	54831	48.9662	ug/mL	100

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL7.D Vial: 2
Acq On : 19 Nov 2019 11:12 Operator: RPN
Sample : ICAL 50ug/mL SVMS8532 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:43:40 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:37:55 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

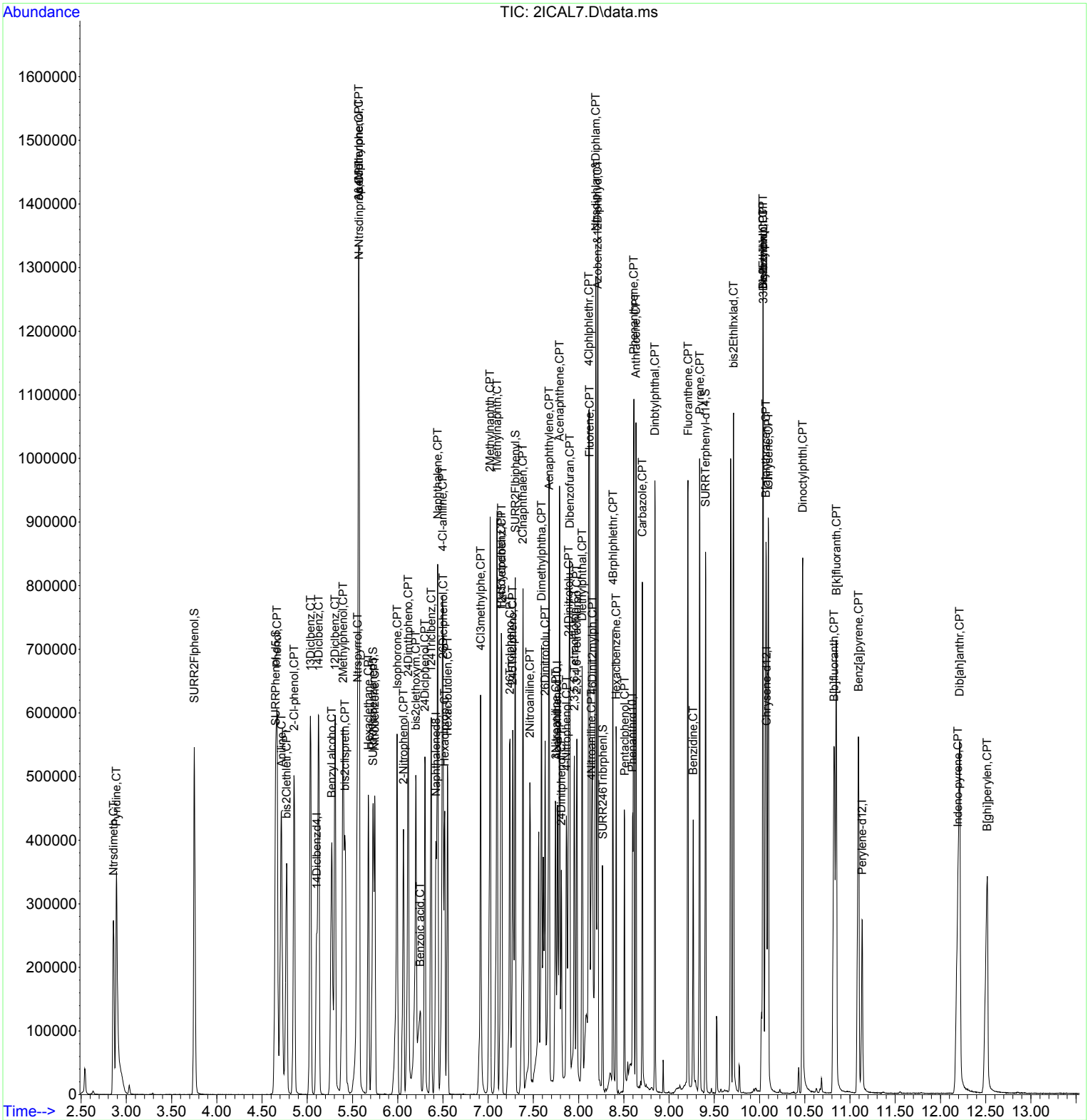
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.150	216	90254	47.9029 ug/mL	99
42) 246Triclpheno	7.241	196	72052	48.7063 ug/mL	99
43) 245Triclpheno	7.272	196	65613	50.4987 ug/mL	94
45) 2Clnaphthalen	7.386	162	209485	48.9319 ug/mL	95
46) 2Nitroaniline	7.462	65	96402	48.9374 ug/mL	98
47) Acnaphthylene	7.675	152	330496	48.3029 ug/mL	100
48) Dimethylphtha	7.590	163	203984	45.5977 ug/mL	100
49) 26Dinitrotolu	7.630	165	51341	47.5039 ug/mL	94
50) Acenaphthene	7.789	154	224888	49.5621 ug/mL	99
51) 3Nitroaniline	7.746	138	63355	56.0149 ug/mL	90
52) 24Dinitphenol	7.809	184	33938	49.3218 ug/mL#	68
53) Dibenzofuran	7.903	168	229445	39.1923 ug/mL	99
54) 24Dinitrotolu	7.891	165	65118	47.2714 ug/mL	91
55) 4-Nitrophenol	7.866	65	63256	51.5782 ug/mL	96
56) 2,3,5,6-Tetrachlorop	7.954	232	56482	47.7890 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.979	232	44659	47.4934 ug/mL	97
58) Fluorene	8.121	166	188255	39.1179 ug/mL	99
59) 4Clphlphlethr	8.113	204	101220	46.7456 ug/mL	98
60) Diethylphthal	8.039	149	214173	45.4791 ug/mL	99
61) 4Nitroaniline	8.141	138	61071	49.4567 ug/mL	90
64) 46Dinit2mylph	8.153	198	40084	48.1590 ug/mL#	46
65) Ntrsdiphlam&Diphlam	8.190	169	230363	87.5092 ug/mL	99
66) Azobenz&12Diphlhyd	8.212	182	101069	87.5480 ug/mL	96
67) 4Brphlphlethr	8.380	248	41447	47.0290 ug/mL	91
68) Hexaclbenzene	8.417	284	39193	44.6561 ug/mL	97
69) Pentaclphenol	8.508	266	27916	49.0269 ug/mL	97
70) Phenanthrene	8.610	178	236430	43.6336 ug/mL	98
71) Anthracene	8.633	178	236110	46.6370 ug/mL	97
72) Carbazole	8.704	167	186968	47.4190 ug/mL	99
73) Dinbtylphthal	8.843	149	286592	48.0185 ug/mL	99
74) Fluoranthene	9.210	202	262480	48.5597 ug/mL	98
76) Benzidine	9.267	184	106058	50.3671 ug/mL	100
77) Pyrene	9.338	202	270369	48.4099 ug/mL	100
79) Btylbzylphth	10.039	149	194078	50.2498 ug/mL	96
80) bis2Ethlhxlad	9.713	129	132108	53.0794 ug/mL	98
81) 33Diclbnzidin	10.042	252	65638	48.2508 ug/mL	99
82) B[a]anthracen	10.071	228	242422	49.4956 ug/mL	98
83) Chrysene	10.099	228	232391	48.5018 ug/mL	98
84) bis2Ethlhxlph	10.039	149	192361	50.4205 ug/mL	97
85) Dinoctylphthl	10.477	149	351692	47.8183 ug/mL	98
87) B[b]fluoranth	10.824	252	251915	50.0437 ug/mL	99
88) B[k]fluoranth	10.849	252	233113	47.1493 ug/mL	97
89) Benz[a]pyrene	11.094	252	235873	48.9004 ug/mL	98
90) Indeno-pyrene	12.193	276	270773	49.4137 ug/mL	99
91) Dib[ah]anthr	12.213	278	213957	48.7157 ug/mL	97
92) B[ghi]perylen	12.517	276	236125	49.3915 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL7.D Vial: 2
Acq On : 19 Nov 2019 11:12 Operator: RPN
Sample : ICAL 50ug/mL SVMS8532 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:43:40 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:37:55 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL6.D Vial: 3
Acq On : 19 Nov 2019 11:33 Operator: RPN
Sample : ICAL 40ug/mL SVMS8531 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:25:22 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:24:59 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.101	152	39181	20.00	ug/mL	0.00
21) Naphthalened8	6.417	136	139411	20.00	ug/mL	0.00
39) Acenaphthened10	7.763	164	71482	20.00	ug/mL	0.00
63) Phenanthrd10	8.593	188	88915	20.00	ug/mL	0.00
75) Chrysene-d12	10.076	240	76351	20.00	ug/mL	0.00
86) Perylene-d12	11.131	264	94415	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.749	112	124207	111.21	%REC	0.00
Spiked Amount 100.000			Recovery = 111.21%			
7) SURRPhenol-d5	4.646	99	155910	108.57	%REC	0.00
Spiked Amount 100.000			Recovery = 108.57%			
22) SURRNitrbenzened5	5.723	82	130341	213.68	%REC	0.00
Spiked Amount 100.000			Recovery = 213.68%			
44) SURR2Flbiphenyl	7.295	172	196827	201.83	%REC	0.00
Spiked Amount 100.000			Recovery = 201.83%			
62) SURR246Tribrphenl	8.261	330	15857	93.75	%REC	0.00
Spiked Amount 100.000			Recovery = 93.75%			
78) SURRTerphenyl-d14	9.400	244	140397	198.88	%REC	0.00
Spiked Amount 100.000			Recovery = 198.88%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.848	74	99119	40.6588	ug/mL	98
3) Pyridine	2.882	79	141664	40.3529	ug/mL	96
5) Aniline	4.712	93	198031	44.6062	ug/mL	99
6) bis2Clethletr	4.769	93	137020	41.2423	ug/mL	98
8) Phenol	4.663	94	161569	43.4788	ug/mL	98
9) 2-Cl-phenol	4.854	128	122365	43.1215	ug/mL	98
10) 13Diclbenz	5.036	146	126991	41.2935	ug/mL	98
11) 14Diclbenz	5.124	146	125437	40.9239	ug/mL	96
12) 12Diclbenz	5.306	146	113256	40.7020	ug/mL	98
13) Benzyl alcoho	5.269	108	79254	41.1860	ug/mL	98
14) bis2clispreth	5.414	45	187267	40.4934	ug/mL	99
15) 2Methylphenol	5.394	107	90941	42.0850	ug/mL	97
16) Ntrspyrrol	5.547	100	61075	45.7485	ug/mL	72
17) Acetophenone	5.564	105	148309	40.3859	ug/mL	94
18) Hexaclethane	5.675	117	46734	40.7324	ug/mL	97
19) N-Ntrsdinprop	5.567	70	94855	41.4944	ug/mL	98
20) 3&4Methylphenol	5.564	107	105514	40.0425	ug/mL	89
23) Nitrobenzene	5.743	77	134379	41.9741	ug/mL	99
24) Isophorone	5.988	82	245958	43.6047	ug/mL	98
25) 2-Nitrophenol	6.059	139	60832	44.5553	ug/mL	95
26) 24Dimthpheno	6.110	122	96211	43.2544	ug/mL	95
27) bis2clethoxym	6.198	93	137074	42.4775	ug/mL	97
28) 24Diclphenol	6.297	162	81333	43.4714	ug/mL	96
29) 124Triclbenz	6.365	180	83145	40.5998	ug/mL	95
30) Benzoic acid	6.232	122	62763	41.8513	ug/mL	99
31) Naphthalene	6.437	128	296365	40.1424	ug/mL	98
32) 4-Cl-aniline	6.493	127	105863	41.8167	ug/mL	97
33) 26Diclphenol	6.496	162	58267	41.5609	ug/mL	96
34) Hexaclprop	6.513	213	51986	42.5580	ug/mL	99
35) Hexaclbutdien	6.547	225	39152	40.0539	ug/mL	99
36) 4Cl3methylphe	6.911	107	99758	45.4624	ug/mL	96
37) 2Methylnaphth	7.016	142	207534	41.4725	ug/mL	100
38) 1Methylnaphth	7.093	141	167884	40.7952	ug/mL	99
40) Hxclcycpentdi	7.138	237	43975	40.0455	ug/mL	100

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL6.D Vial: 3
Acq On : 19 Nov 2019 11:33 Operator: RPN
Sample : ICAL 40ug/mL SVMS8531 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:25:22 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:24:59 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

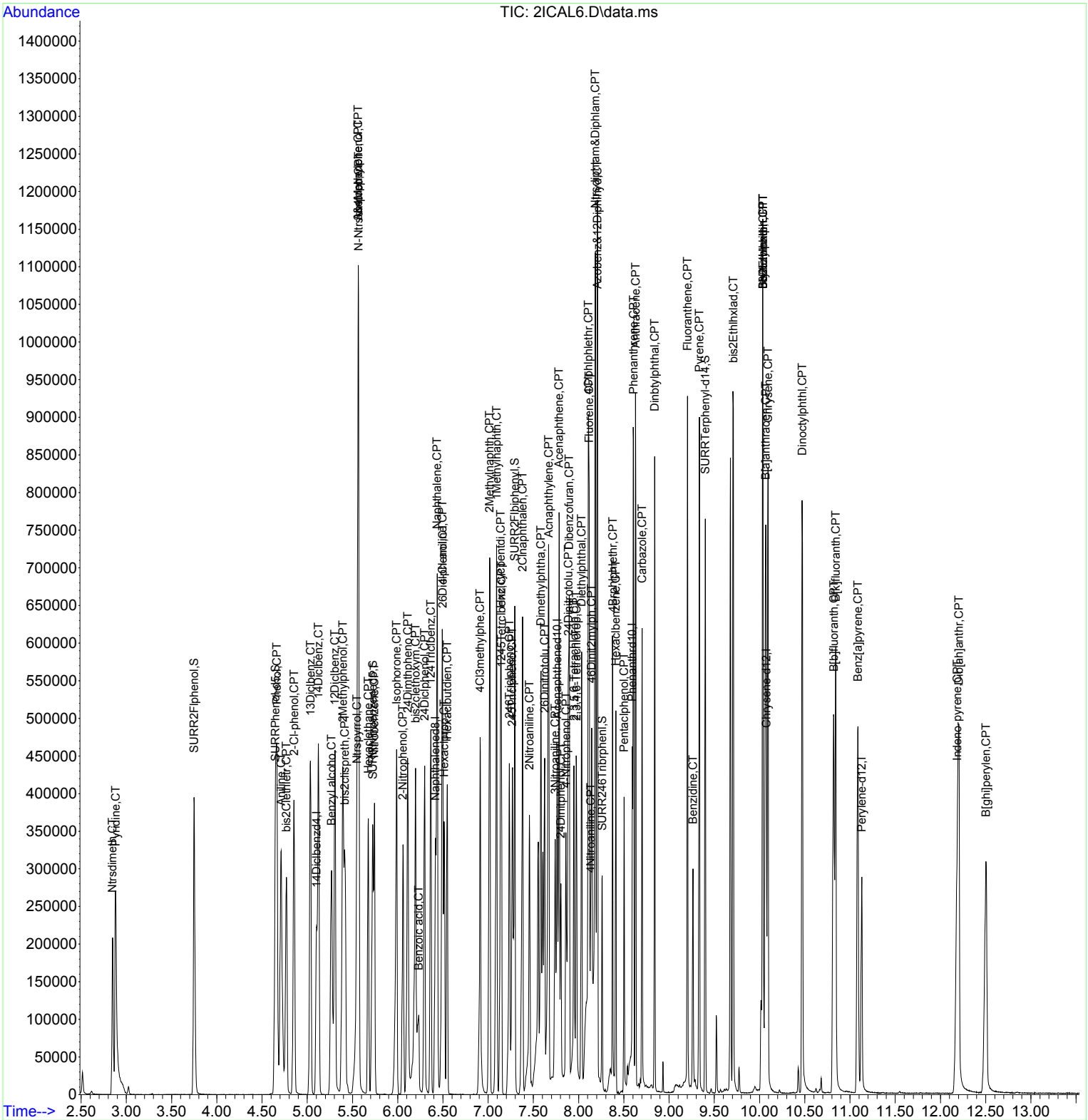
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.147	216	73960	39.6930 ug/mL	100
42) 246Triclpheno	7.235	196	58885	41.2843 ug/mL	99
43) 245Triclpheno	7.266	196	53378	41.5408 ug/mL	96
45) 2Clnaphthalen	7.380	162	171095	40.4108 ug/mL	96
46) 2Nitroaniline	7.457	65	77325	40.5467 ug/mL	98
47) Acnaphthylene	7.670	152	273666	40.4436 ug/mL	100
48) Dimethylphtha	7.584	163	162087	36.6365 ug/mL	100
49) 26Dinitrotolu	7.624	165	41729	39.0413 ug/mL	95
50) Acenaphthene	7.783	154	186345	41.5262 ug/mL	99
51) 3Nitroaniline	7.741	138	48924	43.7387 ug/mL	91
52) 24Dinitphenol	7.803	184	27377	40.6514 ug/mL#	80
53) Dibenzofuran	7.897	168	236170	40.7914 ug/mL	100
54) 24Dinitrotolu	7.886	165	54172	39.7643 ug/mL	91
55) 4-Nitrophenol	7.860	65	51366	42.3508 ug/mL	97
56) 2,3,5,6-Tetrachlorop	7.948	232	48109	41.9235 ug/mL	98
57) 2,3,4,6-Tetrachlorop	7.977	232	36523	39.2746 ug/mL	98
58) Fluorene	8.116	166	193307	40.6161 ug/mL	99
59) 4Clphlphlethr	8.107	204	85346	39.7943 ug/mL	97
60) Diethylphthal	8.033	149	175313	37.6429 ug/mL	99
61) 4Nitroaniline	8.133	138	49067	39.9705 ug/mL	90
64) 46Dinit2mylph	8.144	198	33244	40.7930 ug/mL#	49
65) Ntrsdiphlam&Diphlam	8.184	169	193394	72.6032 ug/mL	100
66) Azobenz&12Diphlhyd	8.207	182	85438	73.1393 ug/mL	96
67) 4Brphlphlethr	8.377	248	34378	38.5500 ug/mL	95
68) Hexaclbenzene	8.411	284	38904	43.8062 ug/mL	97
69) Pentaclphenol	8.502	266	23644	41.3185 ug/mL	98
70) Phenanthrene	8.607	178	243343	44.3820 ug/mL	99
71) Anthracene	8.630	178	203077	39.6413 ug/mL	98
72) Carbazole	8.701	167	144703	36.2688 ug/mL	99
73) Dinbtylphthal	8.840	149	245520	40.6539 ug/mL	99
74) Fluoranthene	9.204	202	222810	40.7366 ug/mL	98
76) Benzidine	9.264	184	76384	39.6917 ug/mL	100
77) Pyrene	9.335	202	230905	40.3123 ug/mL	100
79) Btylbzylphth	10.037	149	172266	43.4895 ug/mL	97
80) bis2Ethlhxlad	9.710	129	112678	44.1431 ug/mL	99
81) 33Diclbnzidin	10.037	252	52158	37.3850 ug/mL	98
82) B[a]anthracen	10.068	228	206567	41.1228 ug/mL	98
83) Chrysene	10.093	228	198164	40.3264 ug/mL	99
84) bis2Ethlhxlph	10.037	149	169472	43.3126 ug/mL	97
85) Dinoctylphthl	10.471	149	312777	41.6055 ug/mL	99
87) B[b]fluoranth	10.821	252	215046	41.2079 ug/mL	99
88) B[k]fluoranth	10.844	252	203525	39.7081 ug/mL	98
89) Benz[a]pyrene	11.088	252	203365	40.6690 ug/mL	100
90) Indeno-pyrene	12.188	276	239713	42.1975 ug/mL	95
91) Dib[ah]anthr	12.205	278	191556	42.0893 ug/mL	99
92) B[ghi]perylen	12.503	276	211184	42.6238 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL6.D Vial: 3
Acq On : 19 Nov 2019 11:33 Operator: RPN
Sample : ICAL 40ug/mL SVMS8531 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:25:22 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:24:59 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL5.D Vial: 4
Acq On : 19 Nov 2019 11:54 Operator: RPN
Sample : ICAL 30ug/mL SVMS8530 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:24:46 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:24:20 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.101	152	27419	20.00	ug/mL	0.00
21) Naphthalened8	6.417	136	100551	20.00	ug/mL	0.00
39) Acenaphthened10	7.761	164	52428	20.00	ug/mL	0.00
63) Phenanthrd10	8.593	188	66292	20.00	ug/mL	0.00
75) Chrysene-d12	10.071	240	62060	20.00	ug/mL	0.00
86) Perylene-d12	11.128	264	78603	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.748	112	65504	83.81	%REC	0.00
Spiked Amount 100.000			Recovery = 83.81%			
7) SURRPhenol-d5	4.646	99	82769	82.36	%REC	0.00
Spiked Amount 100.000			Recovery = 82.36%			
22) SURRNitrbenzened5	5.720	82	70893	161.14	%REC	0.00
Spiked Amount 100.000			Recovery = 161.14%			
44) SURR2Flbiphenyl	7.292	172	110543	154.55	%REC	0.00
Spiked Amount 100.000			Recovery = 154.55%			
62) SURR246Tribrphenl	8.258	330	8962	72.24	%REC	0.00
Spiked Amount 100.000			Recovery = 72.24%			
78) SURRTerphenyl-d14	9.400	244	86647	151.00	%REC	0.00
Spiked Amount 100.000			Recovery = 151.00%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.814	74	50513	30.7575	ug/mL	98
3) Pyridine	2.845	79	76231	31.7406	ug/mL	95
5) Aniline	4.709	93	97423	31.3580	ug/mL	99
6) bis2Clethletr	4.769	93	76136	32.7471	ug/mL	99
8) Phenol	4.663	94	86317	33.1925	ug/mL	98
9) 2-Cl-phenol	4.851	128	65501	32.9844	ug/mL	98
10) 13Diclbenz	5.033	146	69274	32.1887	ug/mL	98
11) 14Diclbenz	5.124	146	68092	31.7447	ug/mL	97
12) 12Diclbenz	5.306	146	62239	31.9626	ug/mL	99
13) Benzyl alcoho	5.266	108	41211	31.3269	ug/mL	95
14) bis2clispreth	5.414	45	101804	31.4566	ug/mL	99
15) 2Methylphenol	5.391	107	49641	32.8271	ug/mL	96
16) Ntrspyrrol	5.539	100	32938	33.2665	ug/mL	88
17) Acetophenone	5.561	105	82554	32.1236	ug/mL	97
18) Hexaclethane	5.675	117	25668	31.9685	ug/mL	98
19) N-Ntrsdinprop	5.558	70	52181	32.6186	ug/mL	97
20) 3&4Methylphenol	5.561	107	60922	33.0376	ug/mL	98
23) Nitrobenzene	5.740	77	73659	31.8997	ug/mL	98
24) Isophorone	5.982	82	132191	32.4926	ug/mL	98
25) 2-Nitrophenol	6.059	139	32623	33.1285	ug/mL	98
26) 24Dimthpheno	6.110	122	52307	32.6044	ug/mL	96
27) bis2clethoxym	6.195	93	74532	32.0227	ug/mL	97
28) 24Diclphenol	6.294	162	44934	33.2984	ug/mL	98
29) 124Triclbenz	6.365	180	46007	31.1475	ug/mL	97
30) Benzoic acid	6.206	122	30364	30.4018	ug/mL	97
31) Naphthalene	6.436	128	165871	31.1499	ug/mL	100
32) 4-Cl-aniline	6.490	127	51044	27.9551	ug/mL	98
33) 26Diclphenol	6.493	162	33249	32.8815	ug/mL	98
34) Hexaclprop	6.513	213	28707	32.5831	ug/mL	99
35) Hexaclbutdien	6.547	225	22027	31.2433	ug/mL	98
36) 4Cl3methylphe	6.911	107	53522	33.8180	ug/mL	96
37) 2Methylnaphth	7.016	142	114475	31.7170	ug/mL	99
38) 1Methylnaphth	7.093	141	94826	31.9475	ug/mL	99
40) Hxclcycpentdi	7.138	237	25026	31.3618	ug/mL	97

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL5.D Vial: 4
Acq On : 19 Nov 2019 11:54 Operator: RPN
Sample : ICAL 30ug/mL SVMS8530 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:24:46 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:24:20 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

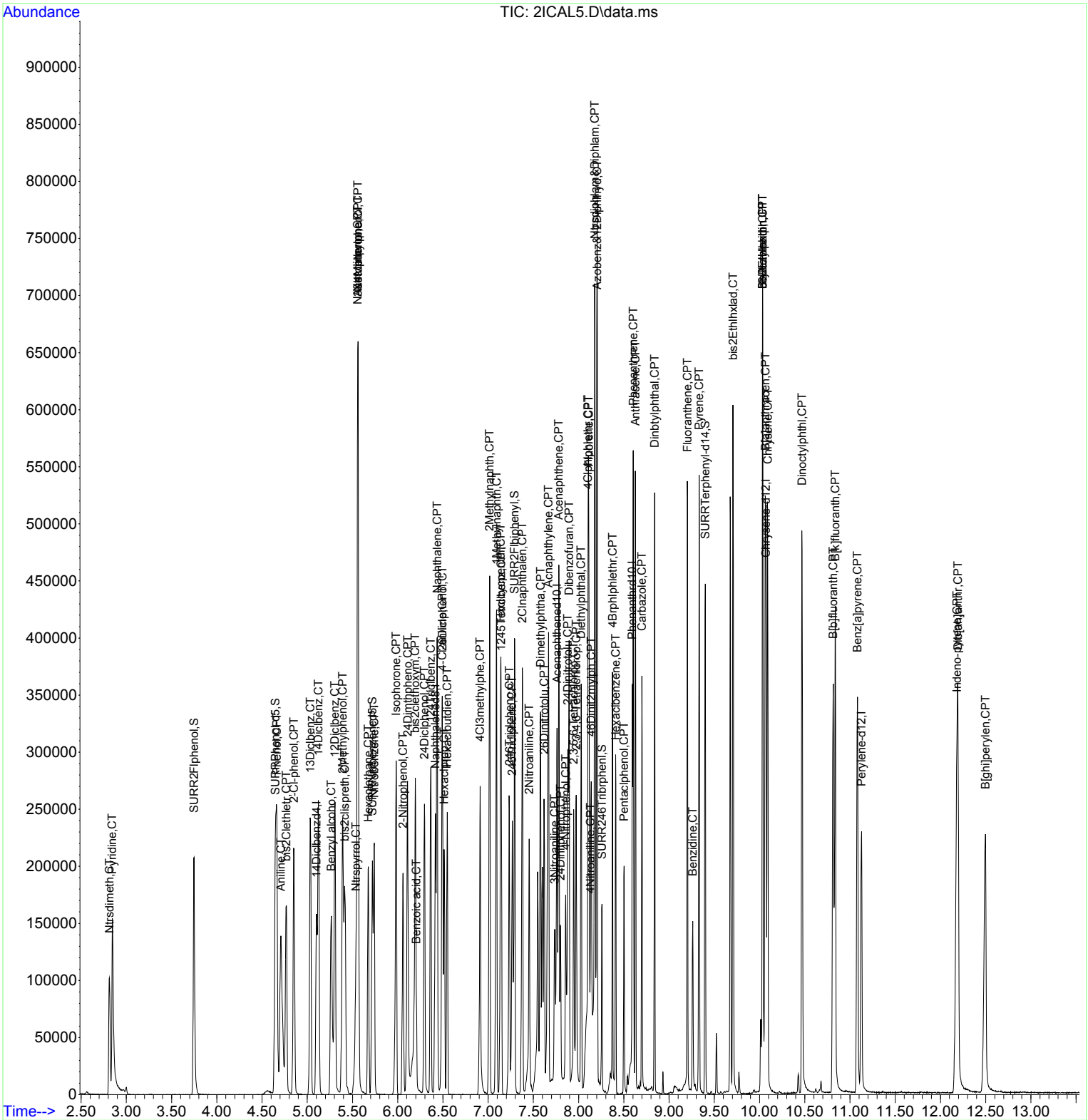
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.144	216	42559	31.1416 ug/mL	97
42) 246Triclpheno	7.235	196	30606	30.4250 ug/mL	99
43) 245Triclpheno	7.266	196	31582	33.5108 ug/mL	98
45) 2Clnaphthalen	7.377	162	95874	30.8741 ug/mL	99
46) 2Nitroaniline	7.454	65	42273	31.0132 ug/mL	99
47) Acnaphthylene	7.667	152	156419	31.5175 ug/mL	100
48) Dimethylphtha	7.579	163	93695	28.8700 ug/mL	99
49) 26Dinitrotolu	7.618	165	23686	30.2142 ug/mL	95
50) Acenaphthene	7.780	154	104516	31.7557 ug/mL	98
51) 3Nitroaniline	7.735	138	25372	30.9266 ug/mL	94
52) 24Dinitphenol	7.800	184	14688	30.5612 ug/mL	80
53) Dibenzofuran	7.894	168	135127	31.8214 ug/mL	99
54) 24Dinitrotolu	7.880	165	30906	30.9311 ug/mL	94
55) 4-Nitrophenol	7.857	65	28173	31.6703 ug/mL	98
56) 2,3,5,6-Tetrachlorop	7.945	232	25804	31.7080 ug/mL	96
57) 2,3,4,6-Tetrachlorop	7.974	232	21211	31.0985 ug/mL	97
58) Fluorene	8.113	166	111330	31.8931 ug/mL	99
59) 4Clphlphlethr	8.104	204	48139	30.6033 ug/mL	98
60) Diethylphthal	8.028	149	97678	28.5956 ug/mL	99
61) 4Nitroaniline	8.130	138	26334	29.4083 ug/mL	93
64) 46Dinit2mylph	8.138	198	18617	31.9276 ug/mL#	60
65) Ntrsdiphlam&Diphlam	8.178	169	117366	59.0974 ug/mL	100
66) Azobenz&12Diphlhyd	8.204	182	52252	59.9952 ug/mL	97
67) 4Brphlphlethr	8.374	248	20218	30.4085 ug/mL	94
68) Hexaclbenzene	8.411	284	19578	29.5681 ug/mL	95
69) Pentaclphenol	8.502	266	12604	30.2162 ug/mL	97
70) Phenanthrene	8.604	178	140870	34.4604 ug/mL	99
71) Anthracene	8.627	178	119170	31.2010 ug/mL	99
72) Carbazole	8.698	167	82866	27.8578 ug/mL	99
73) Dinbtylphthal	8.840	149	143219	31.8075 ug/mL	99
74) Fluoranthene	9.204	202	131811	32.3233 ug/mL	98
76) Benzidine	9.261	184	40036	29.0974 ug/mL	99
77) Pyrene	9.332	202	140750	30.2312 ug/mL	99
79) Btylbzylphth	10.034	149	102818	31.9343 ug/mL	97
80) bis2Ethlhxlad	9.707	129	68269	32.9041 ug/mL	99
81) 33Diclbnzidin	10.034	252	33046	29.1406 ug/mL	99
82) B[a]anthracen	10.065	228	127652	31.2645 ug/mL	99
83) Chrysene	10.091	228	123629	30.9520 ug/mL	99
84) bis2Ethlhxlph	10.034	149	102077	32.0958 ug/mL	100
85) Dinoctylphthl	10.468	149	190995	31.4678 ug/mL	99
87) B[b]fluoranth	10.815	252	139432	32.0932 ug/mL	98
88) B[k]fluoranth	10.838	252	127554	29.8922 ug/mL	99
89) Benz[a]pyrene	11.082	252	130556	31.3607 ug/mL	99
90) Indeno-pyrene	12.182	276	160351	33.9054 ug/mL	97
91) Dib[ah]anthr	12.193	278	126217	33.3116 ug/mL	99
92) B[ghi]perylen	12.497	276	141484	34.3005 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL5.D Vial: 4
Acq On : 19 Nov 2019 11:54 Operator: RPN
Sample : ICAL 30ug/mL SVMS8530 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:24:46 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:24:20 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL4.D Vial: 5
Acq On : 19 Nov 2019 12:15 Operator: RPN
Sample : ICAL 20ug/mL SVMS8529 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:21:35 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 13:40:57 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.104	152	27348	20.00	ug/mL	0.00
21) Naphthalened8	6.414	136	100789	20.00	ug/mL	0.00
39) Acenaphthened10	7.758	164	50951	20.00	ug/mL	0.00
63) Phenanthrd10	8.590	188	68989	20.00	ug/mL	0.00
75) Chrysene-d12	10.068	240	61863	20.00	ug/mL	0.00
86) Perylene-d12	11.125	264	76816	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.748	112	41816	53.64	%REC	0.00
Spiked Amount 100.000			Recovery = 53.64%			
7) SURRPhenol-d5	4.646	99	54126	54.00	%REC	0.00
Spiked Amount 100.000			Recovery = 54.00%			
22) SURRNitrbenzened5	5.717	82	46561	105.58	%REC	0.00
Spiked Amount 100.000			Recovery = 105.58%			
44) SURR2Flbiphenyl	7.292	172	72727	104.63	%REC	0.00
Spiked Amount 100.000			Recovery = 104.63%			
62) SURR246Tribrphenl	8.255	330	7072	58.66	%REC	0.00
Spiked Amount 100.000			Recovery = 58.66%			
78) SURRTerphenyl-d14	9.397	244	58511	102.29	%REC	0.00
Spiked Amount 100.000			Recovery = 102.29%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.805	74	32611	20.7567	ug/mL	100
3) Pyridine	2.839	79	48198	20.7761	ug/mL	100
5) Aniline	4.706	93	65125	21.0165	ug/mL	100
6) bis2Clethletr	4.766	93	50395	21.7318	ug/mL	100
8) Phenol	4.663	94	55667	21.4618	ug/mL	100
9) 2-Cl-phenol	4.854	128	43105	21.7628	ug/mL	100
10) 13Diclbenz	5.035	146	45233	21.0724	ug/mL	100
11) 14Diclbenz	5.126	146	45504	21.2692	ug/mL	100
12) 12Diclbenz	5.305	146	41464	21.3489	ug/mL	100
13) Benzyl alcoho	5.263	108	26653	20.9252	ug/mL	100
14) bis2clispreth	5.416	45	69343	21.4820	ug/mL	100
15) 2Methylphenol	5.391	107	33413	22.1530	ug/mL	100
16) Ntrspyrrol	5.533	100	21315	20.5625	ug/mL	100
17) Acetophenone	5.558	105	54853	21.3999	ug/mL	100
18) Hexaclethane	5.672	117	17105	21.3590	ug/mL	100
19) N-Ntrsdinprop	5.558	70	34693	21.7431	ug/mL	100
20) 3&4Methylphenol	5.561	107	40545	22.0444	ug/mL	100
23) Nitrobenzene	5.740	77	48907	21.1303	ug/mL	100
24) Isophorone	5.982	82	86033	21.0970	ug/mL	100
25) 2-Nitrophenol	6.058	139	21582	21.8647	ug/mL	100
26) 24Dimthpheno	6.107	122	33453	20.8029	ug/mL	100
27) bis2clethoxym	6.195	93	48865	20.9453	ug/mL	100
28) 24Diclphenol	6.294	162	29464	21.7827	ug/mL	100
29) 124Triclbenz	6.365	180	30903	20.8724	ug/mL	100
30) Benzoic acid	6.192	122	17363	19.5576	ug/mL	100
31) Naphthalene	6.433	128	111856	20.9565	ug/mL	100
32) 4-Cl-aniline	6.487	127	37756	20.6289	ug/mL	100
33) 26Diclphenol	6.493	162	22025	21.7301	ug/mL	100
34) Hexaclprop	6.513	213	19018	21.5349	ug/mL	100
35) Hexaclbutdien	6.547	225	14815	20.9641	ug/mL	100
36) 4Cl3methylphe	6.908	107	33738	21.2671	ug/mL	100
37) 2Methylnaphth	7.013	142	76188	21.0592	ug/mL	100
38) 1Methylnaphth	7.090	141	62505	21.0086	ug/mL	100
40) Hxclcycpentdi	7.135	237	16073	21.0230	ug/mL	100

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL4.D Vial: 5
Acq On : 19 Nov 2019 12:15 Operator: RPN
Sample : ICAL 20ug/mL SVMS8529 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:21:35 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 13:40:57 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

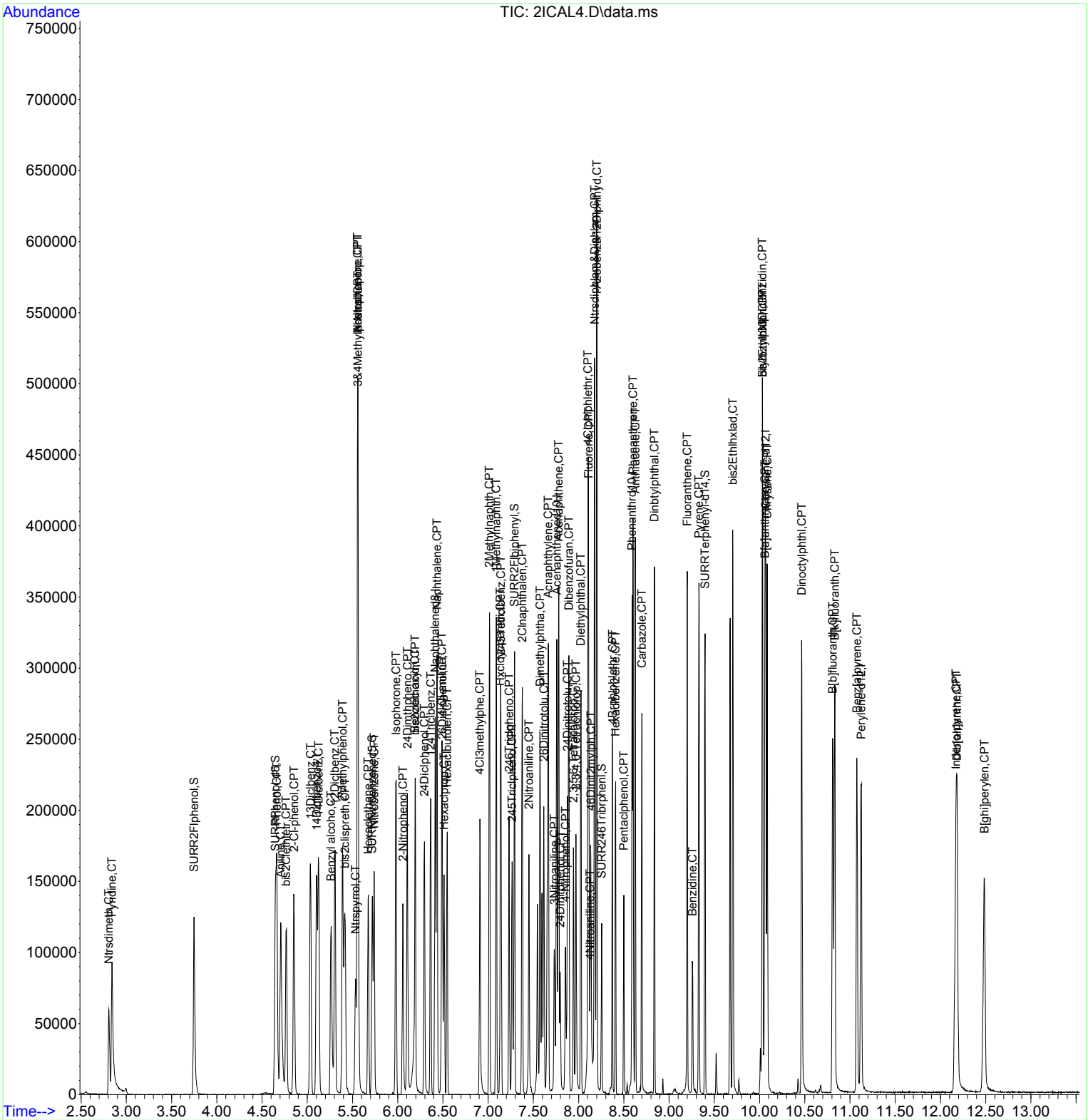
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	7.141	216	28175	21.2141	ug/mL	100
42) 246Triclpheno	7.232	196	19383	20.6128	ug/mL	100
43) 245Triclpheno	7.266	196	20836	22.7494	ug/mL	100
45) 2Clnaphthalen	7.377	162	63471	21.0319	ug/mL	100
46) 2Nitroaniline	7.451	65	26442	20.6111	ug/mL	100
47) Acnaphthylene	7.664	152	102961	21.3474	ug/mL	100
48) Dimethylphtha	7.573	163	69659	22.0837	ug/mL	100
49) 26Dinitrotolu	7.616	165	17485	22.9507	ug/mL	100
50) Acenaphthene	7.780	154	67965	21.2488	ug/mL	100
51) 3Nitroaniline	7.732	138	16681	20.9223	ug/mL	100
52) 24Dinitphenol	7.797	184	8477	19.6492	ug/mL	100
53) Dibenzofuran	7.891	168	88854	21.5310	ug/mL	100
54) 24Dinitrotolu	7.877	165	22419	23.0876	ug/mL	100
55) 4-Nitrophenol	7.854	65	19084	22.0749	ug/mL	100
56) 2,3,5,6-Tetrachlorop	7.942	232	14999	19.8144	ug/mL	100
57) 2,3,4,6-Tetrachlorop	7.971	232	15315	23.1050	ug/mL	100
58) Fluorene	8.110	166	72973	21.5108	ug/mL	100
59) 4Clphlphlethr	8.104	204	32417	21.2058	ug/mL	100
60) Diethylphthal	8.025	149	72483	21.8348	ug/mL	100
61) 4Nitroaniline	8.124	138	18858	21.7873	ug/mL	100
64) 46Dinit2mylph	8.136	198	12372	21.4529	ug/mL	100
65) Ntrsdiphlam&Diphlam	8.178	169	93587	45.2818	ug/mL	100
66) Azobenz&12Diphlhyd	8.201	182	40689	44.8923	ug/mL	100
67) 4Brphlphlethr	8.374	248	15393	22.2465	ug/mL	100
68) Hexaclbenzene	8.408	284	14475	21.0066	ug/mL	100
69) Pentaclphenol	8.499	266	7979	19.5041	ug/mL	100
70) Phenanthrene	8.601	178	87149	20.4855	ug/mL	100
71) Anthracene	8.627	178	85905	21.6123	ug/mL	100
72) Carbazole	8.698	167	60929	19.6823	ug/mL	100
73) Dinbtylphthal	8.837	149	99326	21.1969	ug/mL	100
74) Fluoranthene	9.201	202	89867	21.1761	ug/mL	100
76) Benzidine	9.258	184	25839	20.9996	ug/mL	100
77) Pyrene	9.329	202	94224	20.3007	ug/mL	100
79) Btylbzylphth	10.034	149	69811	21.7497	ug/mL	100
80) bis2Ethlhxlad	9.704	129	43966	21.2562	ug/mL	100
81) 33Diclbnzidin	10.031	252	23571	20.8497	ug/mL	100
82) B[a]anthracen	10.059	228	85014	20.8862	ug/mL	100
83) Chrysene	10.085	228	83103	20.8703	ug/mL	100
84) bis2Ethlhxlph	10.034	149	68839	21.7118	ug/mL	100
85) Dinoctylphthl	10.465	149	123770	20.6839	ug/mL	100
87) B[b]fluoranth	10.809	252	89444	21.0664	ug/mL	100
88) B[k]fluoranth	10.832	252	85621	20.5320	ug/mL	100
89) Benz[a]pyrene	11.076	252	86536	21.2703	ug/mL	100
90) Indeno-pyrene	12.170	276	104257	22.5575	ug/mL	100
91) Dib[ah]anthr	12.185	278	83521	22.5560	ug/mL	100
92) B[ghi]perylen	12.486	276	91304	22.6501	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL4.D Vial: 5
Acq On : 19 Nov 2019 12:15 Operator: RPN
Sample : ICAL 20ug/mL SVMS8529 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:21:35 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 13:40:57 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL3.D Vial: 6
Acq On : 19 Nov 2019 12:36 Operator: RPN
Sample : ICAL 10ug/mL SVMS7528 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:23:35 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:22:52 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.101	152	44811	20.00	ug/mL	0.00
21) Naphthalened8	6.414	136	161478	20.00	ug/mL	0.00
39) Acenaphthened10	7.758	164	82260	20.00	ug/mL	0.00
63) Phenanthrd10	8.593	188	109530	20.00	ug/mL	0.00
75) Chrysene-d12	10.071	240	90641	20.00	ug/mL	0.00
86) Perylene-d12	11.128	264	101843	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.748	112	30174	23.62	%REC	0.00
Spiked Amount 100.000			Recovery = 23.62%			
7) SURRPhenol-d5	4.641	99	39636	24.13	%REC	0.00
Spiked Amount 100.000			Recovery = 24.13%			
22) SURRNitrbenzened5	5.715	82	33733	47.74	%REC	0.00
Spiked Amount 100.000			Recovery = 47.74%			
44) SURR2Flbiphenyl	7.292	172	54344	48.42	%REC	0.00
Spiked Amount 100.000			Recovery = 48.42%			
62) SURR246Tribrphenl	8.255	330	4942	25.39	%REC	0.00
Spiked Amount 100.000			Recovery = 25.39%			
78) SURRTerphenyl-d14	9.397	244	41715	49.77	%REC	0.00
Spiked Amount 100.000			Recovery = 49.77%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.850	74	23244	9.5702	ug/mL	98
3) Pyridine	2.885	79	33589	9.2720	ug/mL	99
5) Aniline	4.703	93	45043	8.8712	ug/mL	98
6) bis2Clethletr	4.763	93	36893	9.7094	ug/mL	95
8) Phenol	4.658	94	40512	9.5322	ug/mL	97
9) 2-Cl-phenol	4.848	128	31235	9.6243	ug/mL	99
10) 13Diclbenz	5.030	146	33308	9.4700	ug/mL	98
11) 14Diclbenz	5.121	146	33382	9.5226	ug/mL	99
12) 12Diclbenz	5.303	146	30697	9.6459	ug/mL	99
13) Benzyl alcoho	5.257	108	18144	9.2297	ug/mL	97
14) bis2clispreth	5.411	45	51105	9.6622	ug/mL	99
15) 2Methylphenol	5.385	107	24066	9.7378	ug/mL	99
16) Ntrspyrrol	5.527	100	15218	8.8205	ug/mL	98
17) Acetophenone	5.556	105	41479	9.8760	ug/mL	96
18) Hexaclethane	5.672	117	12801	9.7553	ug/mL	99
19) N-Ntrsdinprop	5.553	70	25276	9.6678	ug/mL	98
20) 3&4Methylphenol	5.556	107	29500	9.7887	ug/mL	93
23) Nitrobenzene	5.735	77	35633	9.6092	ug/mL	99
24) Isophorone	5.979	82	61699	9.4435	ug/mL	99
25) 2-Nitrophenol	6.056	139	15700	9.9278	ug/mL	99
26) 24Dimthpheno	6.104	122	24140	9.3697	ug/mL	93
27) bis2clethoxym	6.192	93	35994	9.6298	ug/mL	96
28) 24Diclphenol	6.294	162	20822	9.6082	ug/mL	95
29) 124Triclbenz	6.362	180	22952	9.6759	ug/mL	97
30) Benzoic acid	6.181	122	12049	10.7846	ug/mL	94
31) Naphthalene	6.434	128	82405	9.6364	ug/mL	99
32) 4-Cl-aniline	6.488	127	27475	9.3697	ug/mL	96
33) 26Diclphenol	6.490	162	15765	9.7082	ug/mL	98
34) Hexaclprop	6.513	213	13698	9.6813	ug/mL	98
35) Hexaclbutdien	6.547	225	11075	9.7818	ug/mL	97
36) 4Cl3methylphe	6.911	107	24229	9.5329	ug/mL	99
37) 2Methylnaphth	7.016	142	55950	9.6528	ug/mL	100
38) 1Methylnaphth	7.090	141	45464	9.5379	ug/mL	100
40) Hxclcycpentdi	7.135	237	11392	9.5377	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL3.D Vial: 6
Acq On : 19 Nov 2019 12:36 Operator: RPN
Sample : ICAL 10ug/mL SVMS7528 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:23:35 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:22:52 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

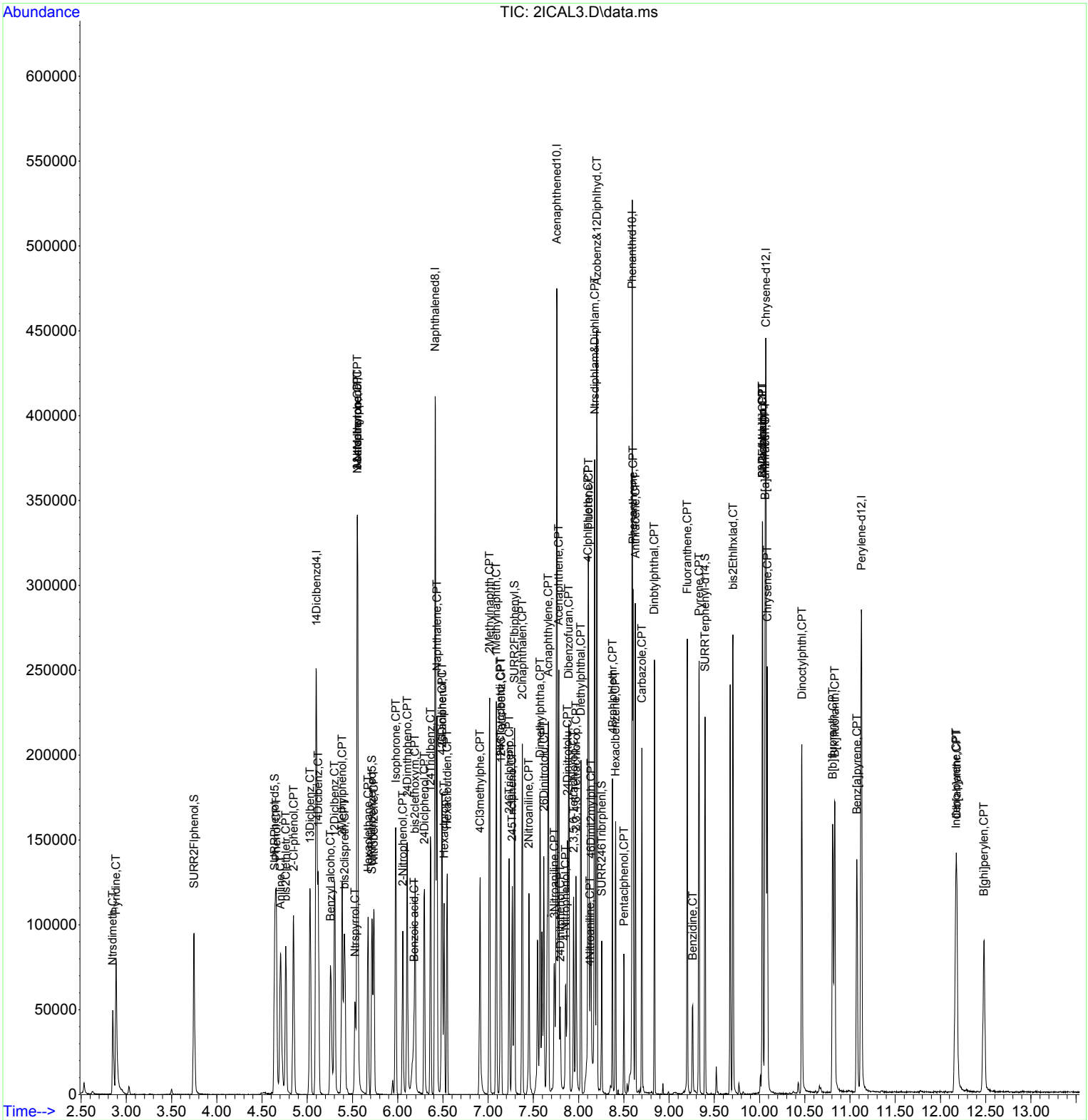
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1245Tetrclbenz	7.144	216	20767	9.6850	ug/mL	100
42) 246Triclpheno	7.232	196	13892	9.6756	ug/mL	100
43) 245Triclpheno	7.266	196	15216	10.2901	ug/mL	97
45) 2Clnaphthalen	7.377	162	46615	9.5674	ug/mL	99
46) 2Nitroaniline	7.451	65	19022	9.6559	ug/mL	97
47) Acnaphthylene	7.664	152	76084	9.7708	ug/mL	98
48) Dimethylphtha	7.576	163	49799	9.7787	ug/mL	98
49) 26Dinitrotolu	7.616	165	12073	9.8154	ug/mL	89
50) Acenaphthene	7.780	154	49724	9.6290	ug/mL	99
51) 3Nitroaniline	7.732	138	13323	10.3503	ug/mL	97
52) 24Dinitphenol	7.797	184	4936	9.6718	ug/mL	93
53) Dibenzofuran	7.891	168	66232	9.9408	ug/mL	100
54) 24Dinitrotolu	7.877	165	15741	10.0406	ug/mL	94
55) 4-Nitrophenol	7.854	65	13476	9.6551	ug/mL	95
56) 2,3,5,6-Tetrachlorop	7.945	232	11413	9.8177	ug/mL	94
57) 2,3,4,6-Tetrachlorop	7.971	232	10830	10.1200	ug/mL	96
58) Fluorene	8.110	166	55220	10.0822	ug/mL	98
59) 4Clphlphlethr	8.104	204	24610	9.9714	ug/mL	99
60) Diethylphthal	8.025	149	51965	9.6959	ug/mL	99
61) 4Nitroaniline	8.124	138	13323	9.7160	ug/mL	96
64) 46Dinit2mylph	8.136	198	8003	9.3042	ug/mL	99
65) Ntrsdiphlam&Diphlam	8.178	169	64654	19.7038	ug/mL	100
66) Azobenz&12Diphlhyd	8.201	182	30472	21.1759	ug/mL	99
67) 4Brphlphlethr	8.374	248	10540	9.5946	ug/mL	96
68) Hexaclbenzene	8.408	284	10750	9.8263	ug/mL	98
69) Pentaclphenol	8.502	266	5172	9.8240	ug/mL	97
70) Phenanthrene	8.602	178	65845	9.7488	ug/mL	99
71) Anthracene	8.627	178	60682	9.6159	ug/mL	99
72) Carbazole	8.698	167	47140	9.5915	ug/mL	99
73) Dinbtylphthal	8.837	149	71774	9.6477	ug/mL	100
74) Fluoranthene	9.201	202	64377	9.5548	ug/mL	98
76) Benzidine	9.261	184	15421	10.0131	ug/mL	98
77) Pyrene	9.332	202	67303	9.8967	ug/mL	97
79) Btylbzylphth	10.034	149	47010	9.9960	ug/mL	99
80) bis2Ethlhxlad	9.707	129	29953	9.8836	ug/mL	99
81) 33Diclbnzidin	10.031	252	16502	9.9624	ug/mL	97
82) B[a]anthracen	10.062	228	56798	9.5237	ug/mL	98
83) Chrysene	10.085	228	56039	9.6052	ug/mL	99
84) bis2Ethlhxlph	10.034	149	45960	9.8935	ug/mL	100
85) Dinoctylphthl	10.468	149	79100	9.3145	ug/mL	98
87) B[b]fluoranth	10.809	252	56110	9.9678	ug/mL	97
88) B[k]fluoranth	10.832	252	54052	9.7765	ug/mL	98
89) Benz[a]pyrene	11.076	252	53269	9.8758	ug/mL	98
90) Indeno-pyrene	12.170	276	59782	9.7561	ug/mL	98
91) Dib[ah]anthr	12.179	278	48559	9.8914	ug/mL	99
92) B[ghi]perylen	12.480	276	52708	9.8623	ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL3.D Vial: 6
Acq On : 19 Nov 2019 12:36 Operator: RPN
Sample : ICAL 10ug/mL SVMS7528 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:23:35 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:22:52 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL2.D Vial: 7
Acq On : 19 Nov 2019 12:57 Operator: RPN
Sample : ICAL 5ug/mL SVMS8527 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:22:38 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:22:19 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.098	152	42743	20.00	ug/mL	0.00
21) Naphthalened8	6.414	136	154671	20.00	ug/mL	0.00
39) Acenaphthened10	7.755	164	79309	20.00	ug/mL	0.00
63) Phenanthrd10	8.590	188	111349	20.00	ug/mL	0.00
75) Chrysene-d12	10.068	240	91060	20.00	ug/mL	0.00
86) Perylene-d12	11.125	264	99795	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.748	112	12256	10.06	%REC	0.00
Spiked Amount 100.000			Recovery = 10.06%			
7) SURRPhenol-d5	4.641	99	16401	10.47	%REC	0.00
Spiked Amount 100.000			Recovery = 10.47%			
22) SURRNitrbenzened5	5.715	82	13345	19.72	%REC	0.00
Spiked Amount 100.000			Recovery = 19.72%			
44) SURR2Flbiphenyl	7.289	172	22635	20.92	%REC	0.00
Spiked Amount 100.000			Recovery = 20.92%			
62) SURR246Tribrphenl	8.252	330	2414	12.86	%REC	0.00
Spiked Amount 100.000			Recovery = 12.86%			
78) SURRTerphenyl-d14	9.397	244	18126	21.53	%REC	0.00
Spiked Amount 100.000			Recovery = 21.53%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.853	74	8845	4.0504	ug/mL	98
3) Pyridine	2.890	79	12682	3.9092	ug/mL	92
5) Aniline	4.703	93	18544	3.8289	ug/mL	99
6) bis2Clethletr	4.760	93	14333	3.9546	ug/mL	97
8) Phenol	4.658	94	15930	3.9296	ug/mL	94
9) 2-Cl-phenol	4.845	128	12135	3.9200	ug/mL	96
10) 13Diclbenz	5.030	146	13523	4.0308	ug/mL	95
11) 14Diclbenz	5.118	146	13582	4.0619	ug/mL	98
12) 12Diclbenz	5.303	146	12110	3.9894	ug/mL	99
13) Benzyl alcoho	5.254	108	6477	3.8497	ug/mL	90
14) bis2clispreth	5.411	45	20393	4.0422	ug/mL	98
15) 2Methylphenol	5.382	107	9625	4.0830	ug/mL	95
16) Ntrspyrrol	5.527	100	5384	3.5437	ug/mL	96
17) Acetophenone	5.553	105	16778	4.1881	ug/mL	97
18) Hexaclethane	5.672	117	5095	4.0706	ug/mL	89
19) N-Ntrsdinprop	5.550	70	9944	3.9875	ug/mL	96
20) 3&4Methylphenol	5.556	107	12011	4.1783	ug/mL	97
23) Nitrobenzene	5.735	77	14235	4.0077	ug/mL	98
24) Isophorone	5.976	82	23828	3.8076	ug/mL	98
25) 2-Nitrophenol	6.053	139	5898	3.8937	ug/mL	98
26) 24Dimthpheno	6.101	122	9378	3.8002	ug/mL	96
27) bis2clethoxym	6.189	93	14435	4.0319	ug/mL	96
28) 24Diclphenol	6.292	162	8328	4.0120	ug/mL	97
29) 124Triclbenz	6.363	180	9372	4.1249	ug/mL	93
30) Benzoic acid	6.158	122	1936	4.9263	ug/mL	88
31) Naphthalene	6.431	128	34030	4.1546	ug/mL	99
32) 4-Cl-aniline	6.482	127	11862	4.2233	ug/mL	96
33) 26Diclphenol	6.490	162	6155	3.9571	ug/mL	98
34) Hexaclprop	6.510	213	5428	4.0052	ug/mL	94
35) Hexaclbutdien	6.544	225	4623	4.2629	ug/mL	95
36) 4Cl3methylphe	6.908	107	9210	3.7831	ug/mL	98
37) 2Methylnaphth	7.013	142	23141	4.1681	ug/mL	99
38) 1Methylnaphth	7.087	141	18866	4.1321	ug/mL	96
40) Hxclcycpentdi	7.133	237	4137	3.8633	ug/mL	94

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL2.D Vial: 7
Acq On : 19 Nov 2019 12:57 Operator: RPN
Sample : ICAL 5ug/mL SVMS8527 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:22:38 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:22:19 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

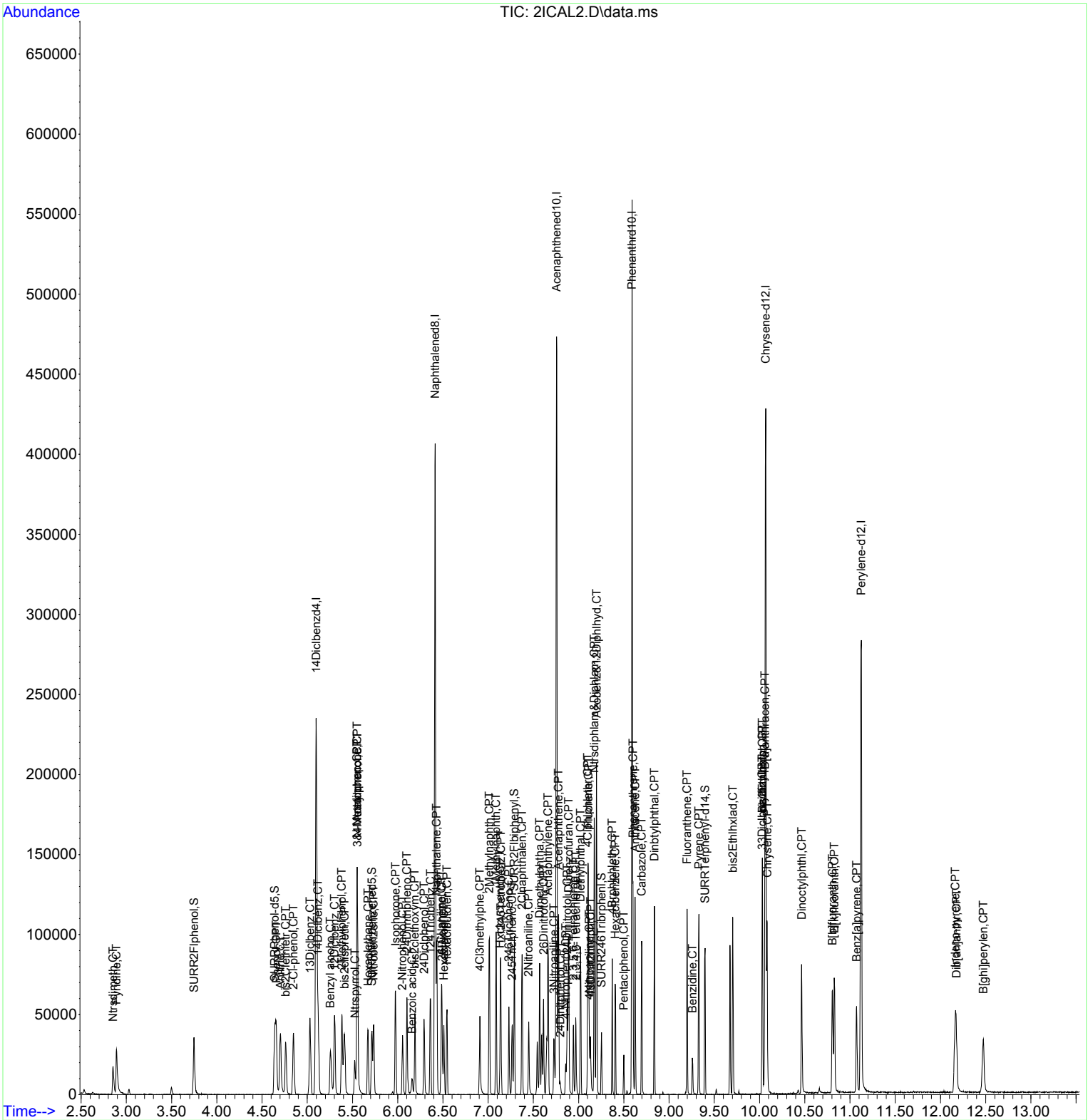
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.141	216	8666	4.1919 ug/mL	98
42) 246Triclpheno	7.229	196	5302	4.0823 ug/mL	92
43) 245Triclpheno	7.266	196	5869	4.1167 ug/mL	96
45) 2Clnaphthalen	7.374	162	19504	4.1520 ug/mL	98
46) 2Nitroaniline	7.448	65	7110	4.0392 ug/mL	98
47) Acnaphthylene	7.661	152	31318	4.1715 ug/mL	98
48) Dimethylphtha	7.570	163	22316	4.5451 ug/mL	99
49) 26Dinitrotolu	7.613	165	5341	4.5038 ug/mL	87
50) Acenaphthene	7.778	154	20249	4.0671 ug/mL	99
51) 3Nitroaniline	7.726	138	5075	4.0893 ug/mL	90
52) 24Dinitphenol	7.798	184	873	5.1449 ug/mL	92
53) Dibenzofuran	7.888	168	27536	4.2867 ug/mL	98
54) 24Dinitrotolu	7.874	165	6648	4.3983 ug/mL	96
55) 4-Nitrophenol	7.857	65	5280	3.9237 ug/mL	97
56) 2,3,5,6-Tetrachlorop	7.942	232	3741	3.6236 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.971	232	4493	4.3547 ug/mL	94
58) Fluorene	8.107	166	22814	4.3204 ug/mL	100
59) 4Clphlphlethr	8.102	204	10371	4.3585 ug/mL	92
60) Diethylphthal	8.022	149	22920	4.4357 ug/mL	99
61) 4Nitroaniline	8.119	138	4992	3.9439 ug/mL	90
64) 46Dinit2mylph	8.133	198	2678	3.1657 ug/mL	98
65) Ntrsdiphlam&Diphlam	8.173	169	29525	8.8510 ug/mL	99
66) Azobenz&12Diphlhyd	8.198	182	12935	8.8421 ug/mL	95
67) 4Brphlphlethr	8.372	248	4764	4.2658 ug/mL	98
68) Hexaclbenzene	8.406	284	4576	4.1145 ug/mL	94
69) Pentaclphenol	8.499	266	1502	5.1082 ug/mL	96
70) Phenanthrene	8.602	178	26876	3.9142 ug/mL	97
71) Anthracene	8.624	178	27039	4.2147 ug/mL	99
72) Carbazole	8.695	167	23854	4.7743 ug/mL	98
73) Dinbtylphthal	8.838	149	31665	4.1868 ug/mL	99
74) Fluoranthene	9.198	202	28444	4.1527 ug/mL	98
76) Benzidine	9.258	184	7105	4.8464 ug/mL	99
77) Pyrene	9.329	202	29470	4.3135 ug/mL	95
79) Btylbzylphth	10.031	149	19295	4.0839 ug/mL	95
80) bis2Ethlhxlad	9.704	129	11934	3.9197 ug/mL	99
81) 33Diclbnzidin	10.028	252	7422	4.4601 ug/mL	97
82) B[a]anthracen	10.059	228	24917	4.1588 ug/mL	97
83) Chrysene	10.085	228	24565	4.1911 ug/mL	100
84) bis2Ethlhxlph	10.031	149	18975	4.0658 ug/mL	95
85) Dinoctylphthl	10.466	149	30717	3.8915 ug/mL	99
87) B[b]fluoranth	10.807	252	21907	3.9716 ug/mL	98
88) B[k]fluoranth	10.827	252	23853	4.4029 ug/mL	99
89) Benz[a]pyrene	11.074	252	21777	4.1202 ug/mL	95
90) Indeno-pyrene	12.165	276	23766	3.9581 ug/mL	99
91) Dib[ah]anthr	12.176	278	19037	3.9574 ug/mL	99
92) B[ghi]perylen	12.475	276	20506	3.9157 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL2.D Vial: 7
Acq On : 19 Nov 2019 12:57 Operator: RPN
Sample : ICAL 5ug/mL SVMS8527 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:22:38 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:22:19 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL1.D Vial: 8
Acq On : 19 Nov 2019 13:19 Operator: RPN
Sample : ICAL 1ug/mL SVMS8526 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:22:01 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 13:40:57 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.098	152	45144	20.00	ug/mL	0.00
21) Naphthalened8	6.417	136	167188	20.00	ug/mL	0.00
39) Acenaphthened10	7.761	164	84105	20.00	ug/mL	0.00
63) Phenanthrd10	8.593	188	120132	20.00	ug/mL	0.00
75) Chrysene-d12	10.068	240	98351	20.00	ug/mL	0.00
86) Perylene-d12	11.128	264	105269	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.751	112	2764	2.15	%REC	0.00
Spiked Amount 100.000			Recovery = 2.15%			
7) SURRPhenol-d5	4.641	99	3710	2.24	%REC	0.00
Spiked Amount 100.000			Recovery = 2.24%			
22) SURRNitrbenzened5	5.715	82	3699	5.06	%REC	0.00
Spiked Amount 100.000			Recovery = 5.06%			
44) SURR2Flbiphenyl	7.292	172	6532	5.69	%REC	0.00
Spiked Amount 100.000			Recovery = 5.69%			
62) SURR246Tribrphenl	0.000	330	0	0.00	%REC	
Spiked Amount 100.000			Recovery = 0.00%			
78) SURRTerphenyl-d14	9.397	244	5215	5.73	%REC	0.00
Spiked Amount 100.000			Recovery = 5.73%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.859	74	2249	1.1729	ug/mL	90
3) Pyridine	2.902	79	3315	1.2103	ug/mL	85
5) Aniline	4.703	93	5390	1.0537	ug/mL	97
6) bis2Clethletr	4.763	93	4040	1.0554	ug/mL	98
8) Phenol	4.655	94	4186	0.9777	ug/mL	93
9) 2-Cl-phenol	4.845	128	3169	0.9692	ug/mL	92
10) 13Diclbenz	5.030	146	3895	1.0992	ug/mL	97
11) 14Diclbenz	5.118	146	3929	1.1125	ug/mL	98
12) 12Diclbenz	5.303	146	3605	1.1244	ug/mL	97
13) Benzyl alcoho	5.257	108	1343	1.2214	ug/mL	95
14) bis2clispreth	5.414	45	6107	1.1461	ug/mL	99
15) 2Methylphenol	5.382	107	2412	0.9688	ug/mL	95
16) Ntrspyrrol	5.527	100	1429	1.2891	ug/mL	89
17) Acetophenone	5.553	105	4659	1.1011	ug/mL	95
18) Hexaclethane	5.669	117	1445	1.0931	ug/mL	96
19) N-Ntrsdinprop	5.550	70	2846	1.0805	ug/mL	96
20) 3&4Methylphenol	5.559	107	3205	1.0556	ug/mL	90
23) Nitrobenzene	5.735	77	4036	1.0512	ug/mL	94
24) Isophorone	5.976	82	6825	1.0089	ug/mL	99
25) 2-Nitrophenol	6.059	139	1357	0.8288	ug/mL	95
26) 24Dimthpheno	6.104	122	2753	1.0321	ug/mL	95
27) bis2clethoxym	6.192	93	3992	1.0315	ug/mL	100
28) 24Diclphenol	6.295	162	2023	0.9016	ug/mL	96
29) 124Triclbenz	6.363	180	2769	1.1275	ug/mL	96
30) Benzoic acid	0.000		0	N.D.		
31) Naphthalene	6.434	128	10187	1.1506	ug/mL	99
32) 4-Cl-aniline	6.488	127	3317	1.0926	ug/mL	95
33) 26Diclphenol	6.493	162	1705	1.0141	ug/mL	95
34) Hexaclprop	6.513	213	1443	0.9850	ug/mL	94
35) Hexaclbutdien	6.547	225	1305	1.1133	ug/mL	91
36) 4Cl3methylphe	6.914	107	2273	0.8638	ug/mL	91
37) 2Methylnaphth	7.016	142	6478	1.0795	ug/mL	89
38) 1Methylnaphth	7.093	141	5491	1.1126	ug/mL	100
40) Hxclcycpentdi	7.138	237	996	1.1962	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL1.D Vial: 8
Acq On : 19 Nov 2019 13:19 Operator: RPN
Sample : ICAL 1ug/mL SVMS8526 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:22:01 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 13:40:57 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

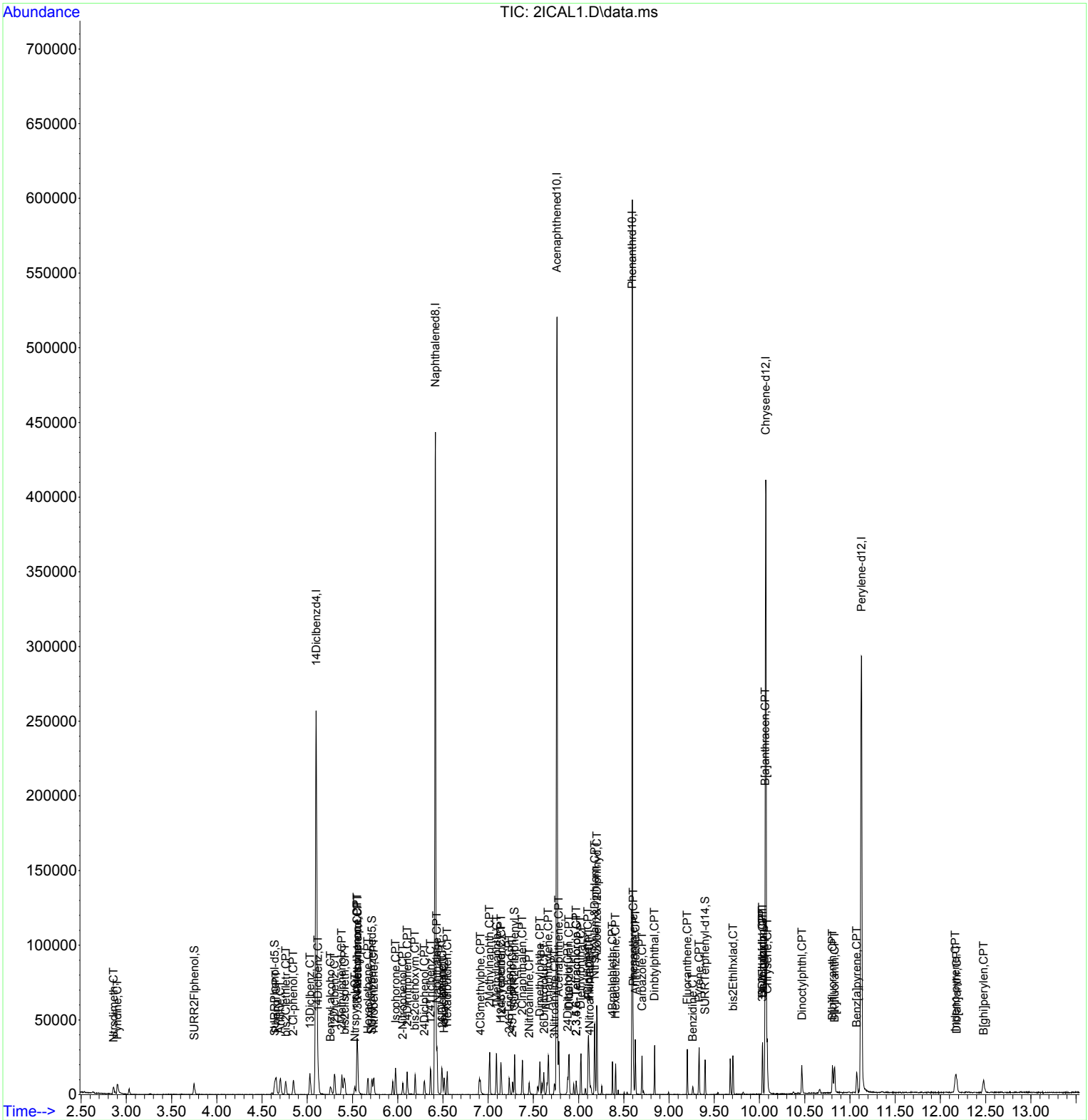
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.144	216	2508	1.1440 ug/mL	91
42) 246Triclpheno	7.232	196	1285	1.1642 ug/mL	96
43) 245Triclpheno	7.269	196	1277	0.8447 ug/mL	95
45) 2Clnaphthalen	7.377	162	5695	1.1432 ug/mL	95
46) 2Nitroaniline	7.454	65	1585	1.1692 ug/mL	97
47) Acnaphthylene	7.664	152	8706	1.0935 ug/mL	97
48) Dimethylphtha	7.573	163	6339	1.2174 ug/mL	100
49) 26Dinitrotolu	7.619	165	1304	1.0369 ug/mL	91
50) Acenaphthene	7.781	154	5667	1.0733 ug/mL	96
51) 3Nitroaniline	7.732	138	1127	0.8563 ug/mL	98
52) 24Dinitphenol	0.000		0	N.D.	
53) Dibenzofuran	7.894	168	8227	1.2077 ug/mL	91
54) 24Dinitrotolu	7.880	165	1589	0.9913 ug/mL	97
55) 4-Nitrophenol	0.000		0	N.D.	
56) 2,3,5,6-Tetrachlorop	7.974	232	1087	1.2401 ug/mL	94
57) 2,3,4,6-Tetrachlorop	7.974	232	1087	0.9935 ug/mL	95
58) Fluorene	8.113	166	6671	1.1913 ug/mL	96
59) 4Clphlphlethr	8.104	204	3231	1.2804 ug/mL	94
60) Diethylphthal	8.025	149	6837	1.2477 ug/mL	98
61) 4Nitroaniline	8.122	138	1296	1.1661 ug/mL	93
64) 46Dinit2mylph	0.000		0	N.D.	
65) Ntrsdiphlam&Diphlam	8.178	169	8853	2.4599 ug/mL	96
66) Azobenz&12Diphlhyd	8.201	182	3614	2.2898 ug/mL	90
67) 4Brphlphlethr	8.374	248	1394	1.1570 ug/mL	92
68) Hexaclbenzene	8.409	284	1404	1.1701 ug/mL	92
69) Pentaclphenol	0.000		0	N.D.	
70) Phenanthrene	8.605	178	8052	1.0869 ug/mL	96
71) Anthracene	8.627	178	7966	1.1509 ug/mL	98
72) Carbazole	8.701	167	7105	1.3181 ug/mL	96
73) Dinbtylphthal	8.840	149	8983	1.1009 ug/mL	99
74) Fluoranthene	9.201	202	8040	1.0880 ug/mL	99
76) Benzidine	9.261	184	1932	1.0064 ug/mL	100
77) Pyrene	9.332	202	8475	1.1485 ug/mL	95
79) Btylbzylphth	10.034	149	4792	0.9391 ug/mL	95
80) bis2Ethlhxlad	9.707	129	2968	0.9026 ug/mL#	79
81) 33Diclbnzidin	10.031	252	2153	1.1979 ug/mL	94
82) B[a]anthracen	10.062	228	7190	1.1111 ug/mL	98
83) Chrysene	10.085	228	7264	1.1475 ug/mL	98
84) bis2Ethlhxlph	10.034	149	4791	0.9505 ug/mL	99
85) Dinoctylphthl	10.469	149	7205	1.2099 ug/mL	99
87) B[b]fluoranth	10.807	252	6137	1.0547 ug/mL	93
88) B[k]fluoranth	10.829	252	6761	1.1831 ug/mL	97
89) Benz[a]pyrene	11.074	252	6048	1.0848 ug/mL	100
90) Indeno-pyrene	12.165	276	5900	0.9315 ug/mL	98
91) Dib[ah]anthr	12.179	278	4857	0.9572 ug/mL	95
92) B[ghi]perylen	12.477	276	4989	0.9031 ug/mL	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICAL1.D Vial: 8
Acq On : 19 Nov 2019 13:19 Operator: RPN
Sample : ICAL 1ug/mL SVMS8526 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:22:01 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 13:40:57 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S111919\2ICV1.D Vial: 9
Acq On : 19 Nov 2019 13:40 Operator: RPN
Sample : ICV 20ug/mL SVMS8533 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:53:24 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	97	0.00
2	CT	Ntrsdimeth	20.000	20.981	-4.9	99	0.00
3	CT	Pyridine	20.000	22.625	-13.1	107	0.00
4	S	SURR2Flphenol	50.000	47.619	4.8	86	0.00
5	CT	Aniline	20.000	21.257	-6.3	98	0.00
6	CPT	bis2Clethletr	20.000	20.966	-4.8	94	0.00
7	S	SURRPhenol-d5	50.000	47.994	4.0	87	0.00
8	CPT	Phenol	20.000	21.430	-7.1	97	0.00
9	CPT	2-Cl-phenol	20.000	21.488	-7.4	96	0.00
10	CT	13Diclbenz	20.000	20.904	-4.5	97	0.00
11	CT	14Diclbenz	20.000	20.854	-4.3	95	0.00
12	CT	12Diclbenz	20.000	21.010	-5.1	96	0.00
13	CT	Benzyl alcoho	20.000	20.063	-0.3	93	0.00
14	CPT	bis2clispreth	20.000	20.964	-4.8	95	0.00
15	CPT	2Methylphenol	20.000	21.495	-7.5	94	0.00
16	CT	Ntrspyrrol	20.000	21.359	-6.8	100	0.00
17	CPT	Acetophenone	20.000	22.177	-10.9	101	0.00
18	CPT	Hexaclethane	20.000	20.922	-4.6	95	0.00
19	CPT	N-Ntrsdinprop	20.000	21.402	-7.0	96	0.00
20	CPT	3&4Methylphenol	20.000	21.924	-9.6	97	0.00
21	I	Naphthalened8	20.000	20.000	0.0	96	0.00
22	S	SURRNitrbenzened5	100.000	104.511	-4.5	95	0.00
23	CPT	Nitrobenzene	20.000	20.945	-4.7	95	0.00
24	CPT	Isophorone	20.000	20.836	-4.2	95	0.00
25	CPT	2-Nitrophenol	20.000	21.620	-8.1	95	0.00
26	CPT	24Dimthpheno	20.000	20.780	-3.9	96	0.00
27	CPT	bis2clethoxym	20.000	21.084	-5.4	96	0.00
28	CPT	24Diclphenol	20.000	21.633	-8.2	95	0.00
29	CT	124Triclbenz	20.000	20.775	-3.9	95	0.00
30	CT	Benzoic acid	20.000	17.477	12.6	84	0.00
31	CPT	Naphthalene	20.000	20.956	-4.8	96	0.00
32	CPT	4-Cl-aniline	20.000	22.323	-11.6	104	0.00
33	CT	26Diclphenol	20.000	22.862	-14.3	101	0.00
34	CT	Hexaclprop	20.000	22.526	-12.6	100	0.00
35	CPT	Hexaclbutdien	20.000	21.207	-6.0	97	0.00
36	CPT	4Cl3methylphe	20.000	21.492	-7.5	97	0.00
37	CPT	2Methylnaphth	20.000	21.465	-7.3	98	0.00
38	CT	1Methylnaphth	20.000	21.287	-6.4	97	0.00
39	I	Acenaphthened10	20.000	20.000	0.0	97	0.00
40	CPT	Hxclcycpentdi	20.000	20.844	-4.2	96	0.00
41	CPT	1245Tetrclbenz	20.000	21.517	-7.6	98	0.00
42	CPT	246Triclpheno	20.000	19.753	1.2	92	0.00
43	CPT	245Triclpheno	20.000	22.298	-11.5	95	0.00
44	S	SURR2Flbiphenyl	100.000	104.877	-4.9	97	0.00
45	CPT	2Clnaphthalen	20.000	21.334	-6.7	98	0.00
46	CPT	2Nitroaniline	20.000	20.370	-1.9	96	0.00
47	CPT	Acnaphthylene	20.000	21.095	-5.5	96	0.00
48	CPT	Dimethylphtha	20.000	20.145	-0.7	88	0.00
49	CPT	26Dinitrotolu	20.000	21.197	-6.0	89	0.00
50	CPT	Acenaphthene	20.000	21.126	-5.6	96	0.00
51	CPT	3Nitroaniline	20.000	21.965	-9.8	102	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S111919\2ICV1.D Vial: 9
Acq On : 19 Nov 2019 13:40 Operator: RPN
Sample : ICV 20ug/mL SVMS8533 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:53:24 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	CPT	24Dinitphenol	20.000	18.424	7.9	89	0.00
53	CPT	Dibenzofuran	20.000	21.509	-7.5	97	0.00
54	CPT	24Dinitrotolu	20.000	21.561	-7.8	90	0.00
55	CPT	4-Nitrophenol	20.000	20.970	-4.8	92	0.00
56	CT	2,3,5,6-Tetrachlorop	20.000	20.340	-1.7	99	0.00
57	CPT	2,3,4,6-Tetrachlorop	20.000	22.010	-10.1	92	0.00
58	CPT	Fluorene	20.000	21.785	-8.9	98	0.00
59	CPT	4Clphlphlethr	20.000	20.221	-1.1	94	0.00
60	CPT	Diethylphthal	20.000	20.096	-0.5	89	0.00
61	CPT	4Nitroaniline	20.000	22.529	-12.6	95	0.00
62	S	SURR246Tribrphenl	50.000	46.628	6.7	77	0.00
63	I	Phenanthrd10	20.000	20.000	0.0	96	0.00
64	CPT	46Dinit2mylph	20.000	20.218	-1.1	90	0.00
65	CPT	Ntrsdiphlam&Diphlam	40.000	42.367	-5.9	90	0.00
66	CT	Azobenz&12Diphlhyd	40.000	45.062	-12.7	97	0.00
67	CPT	4Brphlphlethr	20.000	20.380	-1.9	88	0.00
68	CPT	Hexaclbenzene	20.000	20.890	-4.5	96	0.00
69	CPT	Pentaclphenol	20.000	18.219	8.9	89	0.00
70	CPT	Phenanthrene	20.000	19.839	0.8	93	0.00
71	CPT	Anthracene	20.000	20.904	-4.5	93	0.00
72	CPT	Carbazole	20.000	19.709	1.5	96	0.00
73	CPT	Dinbtylphthal	20.000	20.734	-3.7	94	0.00
74	CPT	Fluoranthene	20.000	21.427	-7.1	97	0.00
75	I	Chrysene-d12	20.000	20.000	0.0	100	0.00
76	CT	Benzidine	20.000	20.994	-5.0	100	0.00
77	CPT	Pyrene	20.000	19.644	1.8	97	0.00
78	S	SURRTerphenyl-d14	100.000	98.125	1.9	96	0.00
79	CPT	Btylbzylphth	20.000	21.652	-8.3	99	0.00
80	CT	bis2Ethlhxlad	20.000	20.929	-4.6	98	0.00
81	CPT	33Diclbnzidin	20.000	20.002	-0.0	96	0.00
82	CPT	B[a]anthracen	20.000	20.499	-2.5	98	0.00
83	CPT	Chrysene	20.000	20.873	-4.4	100	0.00
84	CPT	bis2Ethlhxlph	20.000	21.553	-7.8	99	0.00
85	CPT	Dinoctylphthl	20.000	20.887	-4.4	101	0.00
86	I	Perylene-d12	20.000	20.000	0.0	100	0.00
87	CPT	B[b]fluoranth	20.000	21.000	-5.0	99	0.00
88	CPT	B[k]fluoranth	20.000	21.500	-7.5	104	0.00
89	CPT	Benz[a]pyrene	20.000	21.345	-6.7	100	0.00
90	CPT	Indeno-pyrene	20.000	22.939	-14.7	101	0.00
91	CPT	Dib[ah]anthr	20.000	23.074	-15.4	102	0.00
92	CPT	B[ghi]perylen	20.000	22.923	-14.6	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S111919\2ICV1.D Vial: 9
Acq On : 19 Nov 2019 13:40 Operator: RPN
Sample : ICV 20ug/mL SVMS8533 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:53:24 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	97	0.00
2	CT	Ntrsdimeth	1.115	1.207	-8.3	99	0.00
3	CT	Pyridine	1.623	1.930	-18.9	107	0.00
4	S	SURR2Flphenol	0.570	0.543	4.7	86	0.00
5	CT	Aniline	2.266	2.409	-6.3	98	0.00
6	CPT	bis2Clethletr	1.696	1.778	-4.8	94	0.00
7	S	SURRPhenol-d5	0.733	0.704	4.0	87	0.00
8	CPT	Phenol	1.897	2.032	-7.1	97	0.00
9	CPT	2-Cl-phenol	1.448	1.556	-7.5	96	0.00
10	CT	13Diclbenz	1.570	1.641	-4.5	97	0.00
11	CT	14Diclbenz	1.565	1.631	-4.2	95	0.00
12	CT	12Diclbenz	1.420	1.492	-5.1	96	0.00
13	CT	Benzyl alcoho	0.852	0.932	-9.4	93	0.00
14	CPT	bis2clispreth	2.361	2.474	-4.8	95	0.00
15	CPT	2Methylphenol	1.103	1.186	-7.5	94	0.00
16	CT	Ntrspyrrol	0.700	0.800	-14.3	100	0.00
17	CPT	Acetophenone	1.875	2.079	-10.9	101	0.00
18	CPT	Hexaclethane	0.586	0.613	-4.6	95	0.00
19	CPT	N-Ntrsdinprop	1.167	1.249	-7.0	96	0.00
20	CPT	3&4Methylphenol	1.345	1.474	-9.6	97	0.00
21	I	Naphthalened8	1.000	1.000	0.0	96	0.00
22	S	SURRNitrbenzened5	0.088	0.091	-3.4	95	0.00
23	CPT	Nitrobenzene	0.459	0.481	-4.8	95	0.00
24	CPT	Isophorone	0.809	0.843	-4.2	95	0.00
25	CPT	2-Nitrophenol	0.196	0.212	-8.2	95	0.00
26	CPT	24Dimthpheno	0.319	0.332	-4.1	96	0.00
27	CPT	bis2clethoxym	0.463	0.488	-5.4	96	0.00
28	CPT	24Diclphenol	0.268	0.290	-8.2	95	0.00
29	CT	124Triclbenz	0.294	0.305	-3.7	95	0.00
30	CT	Benzoic acid	0.171	0.152	11.1	84	0.00
31	CPT	Naphthalene	1.059	1.110	-4.8	96	0.00
32	CPT	4-Cl-aniline	0.363	0.405	-11.6	104	0.00
33	CT	26Diclphenol	0.201	0.230	-14.4	101	0.00
34	CT	Hexaclprop	0.175	0.197	-12.6	100	0.00
35	CPT	Hexaclbutdien	0.140	0.149	-6.4	97	0.00
36	CPT	4Cl3methylphe	0.315	0.338	-7.3	97	0.00
37	CPT	2Methylnaphth	0.718	0.770	-7.2	98	0.00
38	CT	1Methylnaphth	0.590	0.628	-6.4	97	0.00
39	I	Acenaphthened10	1.000	1.000	0.0	97	0.00
40	CPT	Hxclcycpentdi	0.281	0.313	-11.4	96	0.00
41	CPT	1245Tetrclbenz	0.521	0.561	-7.7	98	0.00
42	CPT	246Triclpheno	0.356	0.363	-2.0	92	0.00
43	CPT	245Triclpheno	0.360	0.401	-11.4	95	0.00
44	S	SURR2Flbiphenyl	0.273	0.286	-4.8	97	0.00
45	CPT	2Clnaphthalen	1.185	1.264	-6.7	98	0.00
46	CPT	2Nitroaniline	0.476	0.512	-7.6	96	0.00
47	CPT	Acnaphthylene	1.893	1.997	-5.5	96	0.00
48	CPT	Dimethylphtha	1.238	1.247	-0.7	88	0.00
49	CPT	26Dinitrotolu	0.299	0.317	-6.0	89	0.00
50	CPT	Acenaphthene	1.256	1.326	-5.6	96	0.00
51	CPT	3Nitroaniline	0.313	0.344	-9.9	102	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S111919\2ICV1.D Vial: 9
Acq On : 19 Nov 2019 13:40 Operator: RPN
Sample : ICV 20ug/mL SVMS8533 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:53:24 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	CPT	24Dinitphenol	0.149	0.153	-2.7	89	0.00
53	CPT	Dibenzofuran	1.620	1.742	-7.5	97	0.00
54	CPT	24Dinitrotolu	0.381	0.411	-7.9	90	0.00
55	CPT	4-Nitrophenol	0.339	0.356	-5.0	92	0.00
56	CT	2,3,5,6-Tetrachlorop	0.285	0.303	-6.3	99	0.00
57	CPT	2,3,4,6-Tetrachlorop	0.260	0.286	-10.0	92	0.00
58	CPT	Fluorene	1.332	1.450	-8.9	98	0.00
59	CPT	4Clphlphlethr	0.614	0.620	-1.0	94	0.00
60	CPT	Diethylphthal	1.303	1.309	-0.5	89	0.00
61	CPT	4Nitroaniline	0.324	0.365	-12.7	95	0.00
62	S	SURR246Tribrphenl	0.047	0.044	6.4	77	0.00
63	I	Phenanthrd10	1.000	1.000	0.0	96	0.00
64	CPT	46Dinit2mylph	0.163	0.168	-3.1	90	0.00
65	CPT	Ntrsdiphlam&Diphlam	0.599	0.635	-6.0	90	0.00
66	CT	Azobenz&12Diphlhyd	0.263	0.296	-12.5	97	0.00
67	CPT	4Brphlphlethr	0.201	0.204	-1.5	88	0.00
68	CPT	Hexaclbenzene	0.200	0.209	-4.5	96	0.00
69	CPT	Pentaclphenol	0.108	0.107	0.9	89	0.00
70	CPT	Phenanthrene	1.233	1.223	0.8	93	0.00
71	CPT	Anthracene	1.152	1.204	-4.5	93	0.00
72	CPT	Carbazole	0.897	0.884	1.4	96	0.00
73	CPT	Dinbtylphthal	1.358	1.408	-3.7	94	0.00
74	CPT	Fluoranthene	1.230	1.318	-7.2	97	0.00
75	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
76	CT	Benzidine	0.423	0.418	1.2	100	0.00
77	CPT	Pyrene	1.500	1.474	1.7	97	0.00
78	S	SURRTerphenyl-d14	0.185	0.181	2.2	96	0.00
79	CPT	Btylbzylphth	1.038	1.123	-8.2	99	0.00
80	CT	bis2Ethlhxlad	0.669	0.700	-4.6	98	0.00
81	CPT	33Diclbnzidin	0.365	0.365	0.0	96	0.00
82	CPT	B[a]anthracen	1.316	1.349	-2.5	98	0.00
83	CPT	Chrysene	1.287	1.343	-4.4	100	0.00
84	CPT	bis2Ethlhxlph	1.025	1.105	-7.8	99	0.00
85	CPT	Dinoctylphthl	1.793	2.021	-12.7	101	0.00
86	I	Perylene-d12	1.000	1.000	0.0	100	0.00
87	CPT	B[b]fluoranth	1.105	1.161	-5.1	99	0.00
88	CPT	B[k]fluoranth	1.086	1.167	-7.5	104	0.00
89	CPT	Benz[a]pyrene	1.059	1.130	-6.7	100	0.00
90	CPT	Indeno-pyrene	1.203	1.380	-14.7	101	0.00
91	CPT	Dib[ah]anthr	0.964	1.113	-15.5	102	0.00
92	CPT	B[ghi]perylen	1.050	1.203	-14.6	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICV1.D Vial: 9
Acq On : 19 Nov 2019 13:40 Operator: RPN
Sample : ICV 20ug/mL SVMS8533 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:53:24 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.101	152	26630	20.00	ug/mL	0.00
21) Naphthalened8	6.417	136	96454	20.00	ug/mL	0.00
39) Acenaphthened10	7.761	164	49280	20.00	ug/mL	0.00
63) Phenanthrd10	8.593	188	66389	20.00	ug/mL	0.00
75) Chrysene-d12	10.071	240	61712	20.00	ug/mL	0.00
86) Perylene-d12	11.128	264	76571	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.748	112	36148	47.62	%REC	0.00
Spiked Amount 100.000			Recovery = 47.62%			
7) SURRPhenol-d5	4.646	99	46842	47.99	%REC	0.00
Spiked Amount 100.000			Recovery = 47.99%			
22) SURRNitrbenzened5	5.718	82	44106	104.51	%REC	0.00
Spiked Amount 100.000			Recovery = 104.51%			
44) SURR2Flbiphenyl	7.295	172	70510	104.88	%REC	0.00
Spiked Amount 100.000			Recovery = 104.88%			
62) SURR246Tribrphenl	8.258	330	5437	46.63	%REC	0.00
Spiked Amount 100.000			Recovery = 46.63%			
78) SURRTerphenyl-d14	9.400	244	55989	98.13	%REC	0.00
Spiked Amount 100.000			Recovery = 98.13%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.802	74	32130	20.9811	ug/mL	98
3) Pyridine	2.836	79	51408	22.6252	ug/mL	97
5) Aniline	4.703	93	64141	21.2570	ug/mL	100
6) bis2Clethletr	4.766	93	47343	20.9662	ug/mL	99
8) Phenol	4.661	94	54125	21.4300	ug/mL	98
9) 2-Cl-phenol	4.851	128	41444	21.4883	ug/mL	98
10) 13Diclbenz	5.033	146	43693	20.9038	ug/mL	97
11) 14Diclbenz	5.124	146	43444	20.8538	ug/mL	98
12) 12Diclbenz	5.306	146	39734	21.0098	ug/mL	97
13) Benzyl alcoho	5.263	108	24811	20.0628	ug/mL	96
14) bis2clispreth	5.416	45	65893	20.9636	ug/mL	99
15) 2Methylphenol	5.391	107	31570	21.4954	ug/mL	95
16) Ntrspyrrol	5.536	100	21301	21.3591	ug/mL	99
17) Acetophenone	5.559	105	55353	22.1772	ug/mL	97
18) Hexaclethane	5.675	117	16315	20.9218	ug/mL	98
19) N-Ntrsdinprop	5.556	70	33252	21.4018	ug/mL	100
20) 3&4Methylphenol	5.559	107	39265	21.9240	ug/mL	95
23) Nitrobenzene	5.738	77	46393	20.9449	ug/mL	99
24) Isophorone	5.982	82	81313	20.8357	ug/mL	99
25) 2-Nitrophenol	6.059	139	20423	21.6204	ug/mL	97
26) 24Dimthpheno	6.107	122	31979	20.7801	ug/mL	93
27) bis2clethoxym	6.195	93	47072	21.0835	ug/mL	98
28) 24Diclphenol	6.294	162	28003	21.6331	ug/mL	96
29) 124Triclbenz	6.365	180	29436	20.7751	ug/mL	96
30) Benzoic acid	6.192	122	14641	17.4770	ug/mL	96
31) Naphthalene	6.436	128	107043	20.9561	ug/mL	99
32) 4-Cl-aniline	6.488	127	39100	22.3233	ug/mL	100
33) 26Diclphenol	6.493	162	22176	22.8624	ug/mL	98
34) Hexaclprop	6.516	213	19038	22.5264	ug/mL	97
35) Hexaclbutdien	6.547	225	14342	21.2069	ug/mL	99
36) 4Cl3methylphe	6.911	107	32628	21.4918	ug/mL	96
37) 2Methylnaphth	7.016	142	74315	21.4647	ug/mL	98
38) 1Methylnaphth	7.093	141	60610	21.2873	ug/mL	97
40) Hxclcycpentdi	7.138	237	15409	20.8442	ug/mL	97

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICV1.D Vial: 9
Acq On : 19 Nov 2019 13:40 Operator: RPN
Sample : ICV 20ug/mL SVMS8533 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:53:24 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

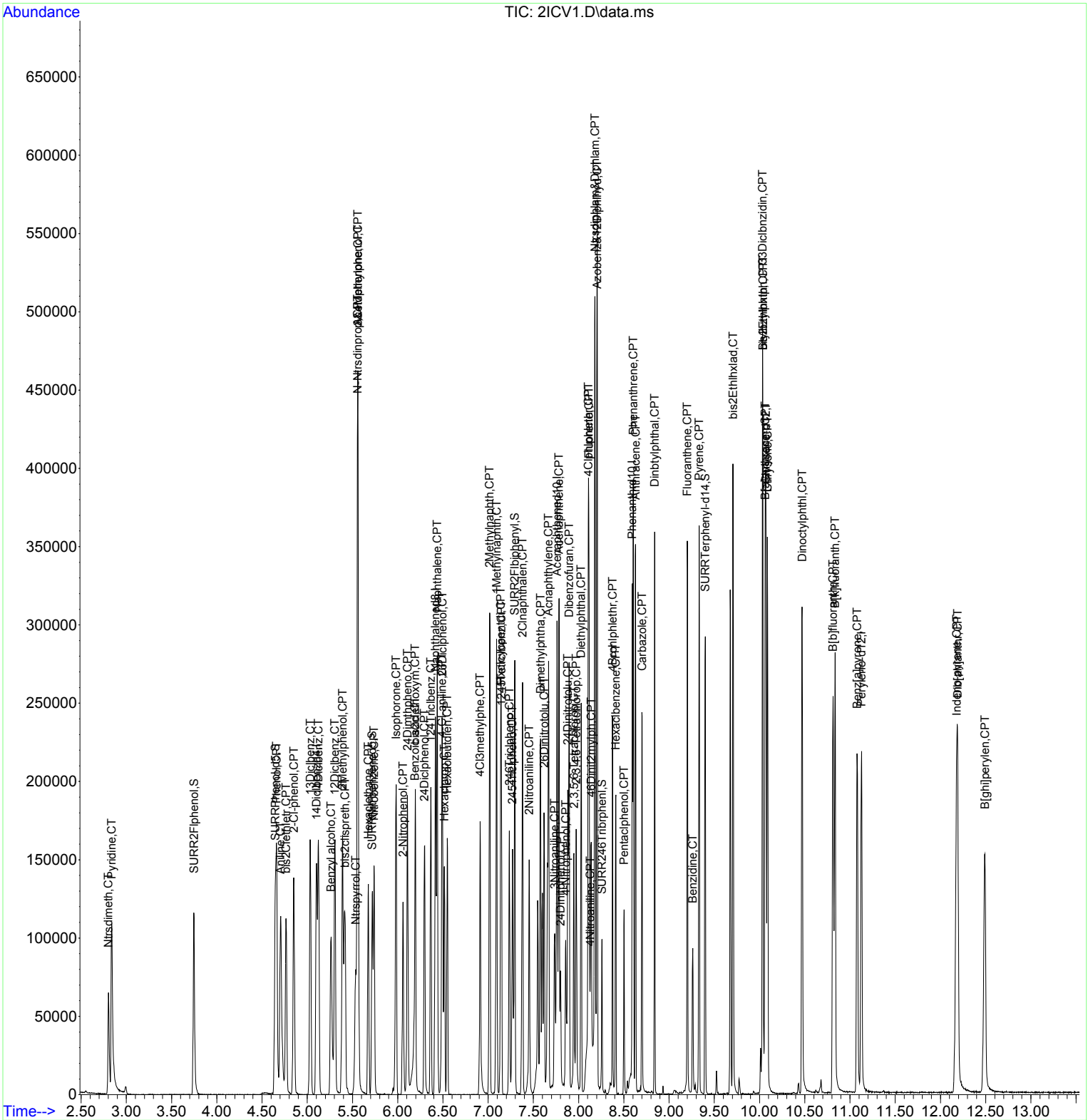
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.147	216	27640	21.5170 ug/mL	94
42) 246Triclpheno	7.235	196	17899	19.7527 ug/mL	97
43) 245Triclpheno	7.269	196	19753	22.2983 ug/mL	98
45) 2Clnaphthalen	7.380	162	62271	21.3340 ug/mL	100
46) 2Nitroaniline	7.454	65	25255	20.3702 ug/mL	98
47) Acnaphthylene	7.667	152	98406	21.0948 ug/mL	99
48) Dimethylphtha	7.579	163	61442	20.1446 ug/mL	99
49) 26Dinitrotolu	7.619	165	15619	21.1966 ug/mL	89
50) Acenaphthene	7.783	154	65355	21.1256 ug/mL	97
51) 3Nitroaniline	7.735	138	16938	21.9650 ug/mL	97
52) 24Dinitphenol	7.800	184	7561	18.4236 ug/mL	87
53) Dibenzofuran	7.894	168	85854	21.5095 ug/mL	99
54) 24Dinitrotolu	7.880	165	20250	21.5611 ug/mL	97
55) 4-Nitrophenol	7.857	65	17534	20.9697 ug/mL	96
56) 2,3,5,6-Tetrachlorop	7.948	232	14924	20.3405 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.974	232	14111	22.0105 ug/mL	96
58) Fluorene	8.113	166	71480	21.7852 ug/mL	99
59) 4Clphlphlethr	8.107	204	30573	20.2213 ug/mL	99
60) Diethylphthal	8.028	149	64522	20.0957 ug/mL	99
61) 4Nitroaniline	8.127	138	18002	22.5291 ug/mL	95
64) 46Dinit2mylph	8.139	198	11151	20.2180 ug/mL	96
65) Ntrsdiphlam&Diphlam	8.181	169	84262	42.3674 ug/mL	100
66) Azobenz&12Diphlhyd	8.204	182	39303	45.0623 ug/mL	96
67) 4Brphlphlethr	8.374	248	13570	20.3803 ug/mL	88
68) Hexaclbenzene	8.411	284	13852	20.8903 ug/mL	97
69) Pentaclphenol	8.502	266	7079	18.2190 ug/mL	98
70) Phenanthrene	8.605	178	81218	19.8395 ug/mL	99
71) Anthracene	8.630	178	79958	20.9044 ug/mL	99
72) Carbazole	8.701	167	58711	19.7089 ug/mL	98
73) Dinbtylphthal	8.840	149	93492	20.7338 ug/mL	100
74) Fluoranthene	9.201	202	87503	21.4270 ug/mL	99
76) Benzidine	9.261	184	25765	20.9944 ug/mL	99
77) Pyrene	9.332	202	90947	19.6443 ug/mL	98
79) Btylbzylphth	10.037	149	69322	21.6522 ug/mL	99
80) bis2Ethlhxlad	9.707	129	43179	20.9287 ug/mL	99
81) 33Diclbnzidin	10.034	252	22555	20.0016 ug/mL	96
82) B[a]anthracen	10.062	228	83226	20.4987 ug/mL	100
83) Chrysene	10.088	228	82905	20.8733 ug/mL	100
84) bis2Ethlhxlph	10.037	149	68164	21.5535 ug/mL	100
85) Dinoctylphthl	10.471	149	124699	20.8866 ug/mL	100
87) B[b]fluoranth	10.812	252	88877	20.9998 ug/mL	99
88) B[k]fluoranth	10.835	252	89372	21.5001 ug/mL	98
89) Benz[a]pyrene	11.079	252	86561	21.3445 ug/mL	100
90) Indeno-pyrene	12.179	276	105684	22.9394 ug/mL	98
91) Dib[ah]anthr	12.190	278	85202	23.0740 ug/mL	99
92) B[ghi]perylen	12.492	276	92138	22.9234 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICV1.D Vial: 9
Acq On : 19 Nov 2019 13:40 Operator: RPN
Sample : ICV 20ug/mL SVMS8533 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:53:24 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S111919\2ICV2.D Vial: 10
Acq On : 19 Nov 2019 14:01 Operator: RPN
Sample : ICV 40ug/mL SVMS8534 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:56:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	79	0.00
2	CT	Ntrsdimeth	40.000	39.808	0.5	77	0.02
3	CT	Pyridine	40.000	43.257	-8.1	85	0.01
4	S	SURR2Flphenol	100.000	96.607	3.4	68	0.00
5	CT	Aniline	40.000	44.123	-10.3	78	0.00
6	CPT	bis2Clethletr	40.000	40.830	-2.1	78	0.00
7	S	SURRPhenol-d5	100.000	95.952	4.0	70	0.00
8	CPT	Phenol	40.000	42.573	-6.4	77	0.00
9	CPT	2-Cl-phenol	40.000	42.238	-5.6	77	0.00
10	CT	13Diclbenz	40.000	40.927	-2.3	78	0.00
11	CT	14Diclbenz	40.000	40.108	-0.3	77	0.00
12	CT	12Diclbenz	40.000	40.260	-0.6	78	0.00
13	CT	Benzyl alcoho	40.000	39.208	2.0	75	0.00
14	CPT	bis2clispreth	40.000	40.546	-1.4	79	0.00
15	CPT	2Methylphenol	40.000	41.813	-4.5	78	0.00
16	CT	Ntrspyrrol	40.000	43.117	-7.8	83	0.01
17	CPT	Acetophenone	40.000	41.714	-4.3	81	0.00
18	CPT	Hexaclethane	40.000	40.987	-2.5	79	0.00
19	CPT	N-Ntrsdinprop	40.000	40.736	-1.8	77	0.00
20	CPT	3&4Methylphenol	40.000	40.154	-0.4	79	0.00
21	I	Naphthalened8	20.000	20.000	0.0	79	0.00
22	S	SURRNitrbenzened5	200.000	208.885	-4.4	77	0.00
23	CPT	Nitrobenzene	40.000	41.195	-3.0	77	0.00
24	CPT	Isophorone	40.000	42.402	-6.0	76	0.00
25	CPT	2-Nitrophenol	40.000	42.897	-7.2	76	0.00
26	CPT	24Dimthpheno	40.000	42.526	-6.3	77	0.00
27	CPT	bis2clethoxym	40.000	41.457	-3.6	77	0.00
28	CPT	24Diclphenol	40.000	42.820	-7.1	77	0.00
29	CT	124Triclbenz	40.000	40.431	-1.1	78	0.00
30	CT	Benzoic acid	40.000	38.736	3.2	73	0.03
31	CPT	Naphthalene	40.000	39.926	0.2	78	0.00
32	CPT	4-Cl-aniline	40.000	41.014	-2.5	77	0.00
33	CT	26Diclphenol	40.000	44.275	-10.7	84	0.00
34	CT	Hexaclprop	40.000	44.754	-11.9	83	0.00
35	CPT	Hexaclbutdien	40.000	40.583	-1.5	80	0.00
36	CPT	4Cl3methylphe	40.000	44.253	-10.6	77	0.00
37	CPT	2Methylnaphth	40.000	41.219	-3.0	78	0.00
38	CT	1Methylnaphth	40.000	40.856	-2.1	79	0.00
39	I	Acenaphthened10	20.000	20.000	0.0	79	0.00
40	CPT	Hxclcycpentdi	40.000	40.797	-2.0	80	0.00
41	CPT	1245Tetrclbenz	40.000	40.278	-0.7	80	0.00
42	CPT	246Triclpheno	40.000	39.409	1.5	75	0.00
43	CPT	245Triclpheno	40.000	39.997	0.0	76	0.00
44	S	SURR2Flbiphenyl	200.000	197.785	1.1	77	0.00
45	CPT	2Clnaphthalen	40.000	39.785	0.5	78	0.00
46	CPT	2Nitroaniline	40.000	38.563	3.6	75	0.00
47	CPT	Acnaphthylene	40.000	39.808	0.5	78	0.00
48	CPT	Dimethylphtha	40.000	35.844	10.4	77	0.01
49	CPT	26Dinitrotolu	40.000	37.535	6.2	76	0.00
50	CPT	Acenaphthene	40.000	40.719	-1.8	77	0.00
51	CPT	3Nitroaniline	40.000	40.541	-1.4	73	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S111919\2ICV2.D Vial: 10
Acq On : 19 Nov 2019 14:01 Operator: RPN
Sample : ICV 40ug/mL SVMS8534 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:56:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	CPT	24Dinitphenol	40.000	38.059	4.9	73	0.00
53	CPT	Dibenzofuran	40.000	40.697	-1.7	79	0.00
54	CPT	24Dinitrotolu	40.000	38.486	3.8	76	0.00
55	CPT	4-Nitrophenol	40.000	39.935	0.2	74	0.00
56	CT	2,3,5,6-Tetrachlorop	40.000	40.283	-0.7	75	0.00
57	CPT	2,3,4,6-Tetrachlorop	40.000	38.893	2.8	78	0.00
58	CPT	Fluorene	40.000	40.525	-1.3	79	0.00
59	CPT	4Clphlphlethr	40.000	38.041	4.9	77	0.00
60	CPT	Diethylphthal	40.000	36.121	9.7	76	0.01
61	CPT	4Nitroaniline	40.000	40.055	-0.1	75	0.01
62	S	SURR246Tribrphenl	100.000	81.374	18.6	68	0.00
63	I	Phenanthrd10	20.000	20.000	0.0	81	0.00
64	CPT	46Dinit2mylph	40.000	37.568	6.1	73	0.00
65	CPT	Ntrsdiphlam&Diphlam	80.000	74.347	7.1	83	0.00
66	CT	Azobenz&12Diphlhyd	80.000	72.948	8.8	81	0.00
67	CPT	4Brphlphlethr	40.000	37.438	6.4	79	0.00
68	CPT	Hexaclbenzene	40.000	36.465	8.8	67	0.00
69	CPT	Pentaclphenol	40.000	37.497	6.3	73	0.00
70	CPT	Phenanthrene	40.000	36.879	7.8	67	0.00
71	CPT	Anthracene	40.000	38.162	4.6	78	0.00
72	CPT	Carbazole	40.000	35.524	11.2	79	0.00
73	CPT	Dinbtylphthal	40.000	39.020	2.4	78	0.00
74	CPT	Fluoranthene	40.000	39.973	0.1	79	0.00
75	I	Chrysene-d12	20.000	20.000	0.0	84	0.00
76	CT	Benzidine	40.000	37.959	5.1	79	0.00
77	CPT	Pyrene	40.000	38.279	4.3	80	0.00
78	S	SURRTerphenyl-d14	200.000	191.692	4.2	81	0.00
79	CPT	Btylbzylphth	40.000	41.752	-4.4	81	0.00
80	CT	bis2Ethlhxlad	40.000	42.802	-7.0	81	0.00
81	CPT	33Diclbnzidin	40.000	36.051	9.9	81	0.00
82	CPT	B[a]anthracen	40.000	39.220	2.0	80	0.00
83	CPT	Chrysene	40.000	40.537	-1.3	84	0.00
84	CPT	bis2Ethlhxlph	40.000	41.315	-3.3	80	0.00
85	CPT	Dinoctylphthl	40.000	41.221	-3.1	83	0.00
86	I	Perylene-d12	20.000	20.000	0.0	87	0.00
87	CPT	B[b]fluoranth	40.000	39.945	0.1	84	0.01
88	CPT	B[k]fluoranth	40.000	40.832	-2.1	89	0.01
89	CPT	Benz[a]pyrene	40.000	40.592	-1.5	87	0.01
90	CPT	Indeno-pyrene	40.000	43.062	-7.7	89	0.02
91	CPT	Dib[ah]anthr	40.000	42.655	-6.6	88	0.02
92	CPT	B[ghi]perylen	40.000	43.827	-9.6	89	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICV2.D Vial: 10
Acq On : 19 Nov 2019 14:01 Operator: RPN
Sample : ICV 40ug/mL SVMS8534 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:56:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.104	152	30893	20.00	ug/mL	0.00
21) Naphthalened8	6.419	136	109596	20.00	ug/mL	0.00
39) Acenaphthened10	7.763	164	56325	20.00	ug/mL	0.00
63) Phenanthrd10	8.596	188	71932	20.00	ug/mL	0.00
75) Chrysene-d12	10.076	240	64088	20.00	ug/mL	0.00
86) Perylene-d12	11.131	264	82044	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.748	112	85074	96.61	%REC	0.00
Spiked Amount 100.000			Recovery = 96.61%			
7) SURRPhenol-d5	4.646	99	108641	95.95	%REC	0.00
Spiked Amount 100.000			Recovery = 95.95%			
22) SURRNitrbenzened5	5.723	82	100165	208.88	%REC	0.00
Spiked Amount 100.000			Recovery = 208.88%			
44) SURR2Flbiphenyl	7.297	172	151983	197.79	%REC	0.00
Spiked Amount 100.000			Recovery = 197.79%			
62) SURR246Tribrphenl	8.261	330	10845	81.37	%REC	0.00
Spiked Amount 100.000			Recovery = 81.37%			
78) SURRTerphenyl-d14	9.403	244	113588	191.69	%REC	0.00
Spiked Amount 100.000			Recovery = 191.69%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.822	74	76273	39.8076	ug/mL	99
3) Pyridine	2.853	79	120619	43.2565	ug/mL	96
5) Aniline	4.709	93	154451	44.1234	ug/mL	98
6) bis2Clethletr	4.769	93	106956	40.8300	ug/mL	99
8) Phenol	4.663	94	124738	42.5729	ug/mL	97
9) 2-Cl-phenol	4.854	128	94504	42.2379	ug/mL	99
10) 13Diclbenz	5.036	146	99239	40.9267	ug/mL	97
11) 14Diclbenz	5.124	146	96932	40.1083	ug/mL	96
12) 12Diclbenz	5.306	146	88330	40.2604	ug/mL	98
13) Benzyl alcoho	5.266	108	59222	39.2078	ug/mL	96
14) bis2clispreth	5.414	45	147847	40.5462	ug/mL	99
15) 2Methylphenol	5.394	107	71240	41.8126	ug/mL	96
16) Ntrspyrrol	5.544	100	50390	43.1168	ug/mL	74
17) Acetophenone	5.564	105	120782	41.7138	ug/mL	98
18) Hexaclethane	5.675	117	37079	40.9874	ug/mL	100
19) N-Ntrsdinprop	5.564	70	73423	40.7358	ug/mL	98
20) 3&4Methylphenol	5.564	107	83426	40.1539	ug/mL	94
23) Nitrobenzene	5.743	77	103680	41.1953	ug/mL	99
24) Isophorone	5.988	82	188024	42.4021	ug/mL	99
25) 2-Nitrophenol	6.061	139	46042	42.8967	ug/mL	98
26) 24Dimthpheno	6.113	122	74361	42.5258	ug/mL	94
27) bis2clethoxym	6.198	93	105170	41.4570	ug/mL	98
28) 24Diclphenol	6.300	162	62981	42.8202	ug/mL	99
29) 124Triclbenz	6.368	180	65092	40.4313	ug/mL	97
30) Benzoic acid	6.223	122	46056	38.7364	ug/mL	95
31) Naphthalene	6.439	128	231728	39.9261	ug/mL	98
32) 4-Cl-aniline	6.496	127	81625	41.0139	ug/mL	97
33) 26Diclphenol	6.499	162	48797	44.2749	ug/mL	97
34) Hexaclprop	6.519	213	42977	44.7541	ug/mL	99
35) Hexaclbutdien	6.550	225	31185	40.5825	ug/mL	98
36) 4Cl3methylphe	6.914	107	76337	44.2529	ug/mL	97
37) 2Methylnaphth	7.019	142	162154	41.2193	ug/mL	99
38) 1Methylnaphth	7.096	141	132178	40.8565	ug/mL	99
40) Hxclcycpentdi	7.141	237	35327	40.7970	ug/mL	97

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICV2.D Vial: 10
Acq On : 19 Nov 2019 14:01 Operator: RPN
Sample : ICV 40ug/mL SVMS8534 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:56:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

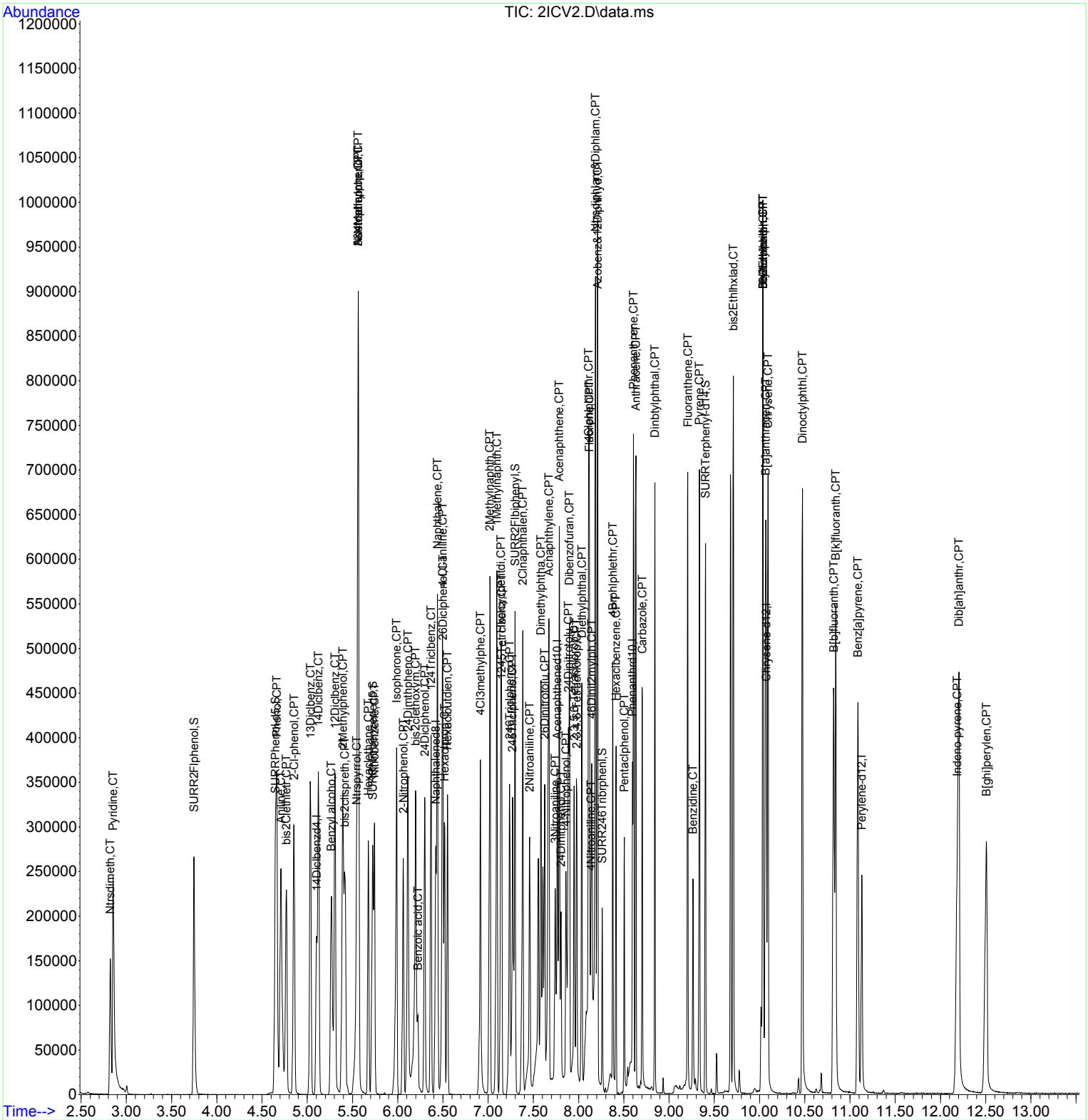
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.150	216	59136	40.2777 ug/mL	99
42) 246Triclpheno	7.238	196	44001	39.4087 ug/mL	99
43) 245Triclpheno	7.269	196	40497	39.9973 ug/mL	98
45) 2Clnaphthalen	7.383	162	132728	39.7849 ug/mL	96
46) 2Nitroaniline	7.459	65	57648	38.5634 ug/mL	98
47) Acnaphthylene	7.673	152	212249	39.8080 ug/mL	100
48) Dimethylphtha	7.584	163	124955	35.8440 ug/mL	100
49) 26Dinitrotolu	7.624	165	31612	37.5348 ug/mL	97
50) Acenaphthene	7.786	154	143978	40.7189 ug/mL	100
51) 3Nitroaniline	7.741	138	35732	40.5412 ug/mL	94
52) 24Dinitphenol	7.806	184	20096	38.0588 ug/mL#	77
53) Dibenzofuran	7.900	168	185663	40.6972 ug/mL	100
54) 24Dinitrotolu	7.886	165	41313	38.4859 ug/mL	90
55) 4-Nitrophenol	7.860	65	38166	39.9354 ug/mL	97
56) 2,3,5,6-Tetrachlorop	7.951	232	36234	40.2832 ug/mL	99
57) 2,3,4,6-Tetrachlorop	7.979	232	28499	38.8929 ug/mL	98
58) Fluorene	8.119	166	151978	40.5254 ug/mL	100
59) 4Clphlphlethr	8.110	204	65737	38.0408 ug/mL	98
60) Diethylphthal	8.036	149	132554	36.1208 ug/mL	99
61) 4Nitroaniline	8.136	138	36582	40.0553 ug/mL	88
64) 46Dinit2mylph	8.144	198	24404	37.5683 ug/mL#	45
65) Ntrsdiphlam&Diphlam	8.187	169	160209	74.3466 ug/mL	99
66) Azobenz&12Diphlhyd	8.210	182	68937	72.9481 ug/mL	97
67) 4Brphlphlethr	8.377	248	27009	37.4381 ug/mL	93
68) Hexaclbenzene	8.414	284	26198	36.4648 ug/mL	99
69) Pentaclphenol	8.505	266	17262	37.4966 ug/mL	96
70) Phenanthrene	8.607	178	163580	36.8793 ug/mL	100
71) Anthracene	8.633	178	158154	38.1619 ug/mL	98
72) Carbazole	8.704	167	114658	35.5240 ug/mL	100
73) Dinbtylphthal	8.843	149	190639	39.0202 ug/mL	100
74) Fluoranthene	9.207	202	176871	39.9733 ug/mL	99
76) Benzidine	9.264	184	60104	37.9587 ug/mL	100
77) Pyrene	9.335	202	184043	38.2790 ug/mL	99
79) Btylbzylphth	10.037	149	138820	41.7518 ug/mL	97
80) bis2Ethlhxlad	9.710	129	91708	42.8025 ug/mL	99
81) 33Diclbnzidin	10.037	252	42219	36.0514 ug/mL	97
82) B[a]anthracen	10.068	228	165365	39.2196 ug/mL	99
83) Chrysene	10.093	228	167204	40.5368 ug/mL	99
84) bis2Ethlhxlph	10.037	149	135692	41.3151 ug/mL	97
85) Dinoctylphthl	10.474	149	260059	41.2213 ug/mL	100
87) B[b]fluoranth	10.821	252	181141	39.9448 ug/mL	99
88) B[k]fluoranth	10.844	252	181865	40.8324 ug/mL	97
89) Benz[a]pyrene	11.088	252	176383	40.5918 ug/mL	99
90) Indeno-pyrene	12.188	276	212569	43.0615 ug/mL	98
91) Dib[ah]anthr	12.205	278	168765	42.6552 ug/mL	96
92) B[ghi]perylen	12.509	276	188750	43.8273 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S111919\2ICV2.D Vial: 10
Acq On : 19 Nov 2019 14:01 Operator: RPN
Sample : ICV 40ug/mL SVMS8534 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 19 14:56:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 14:52:56 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2DIOXN07.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S112119\2DFTP424.D
Injection Date : 21 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 17:15 Total files within period : 19
Sample Directory : C:\INSTARCH\DATA\2S112119\

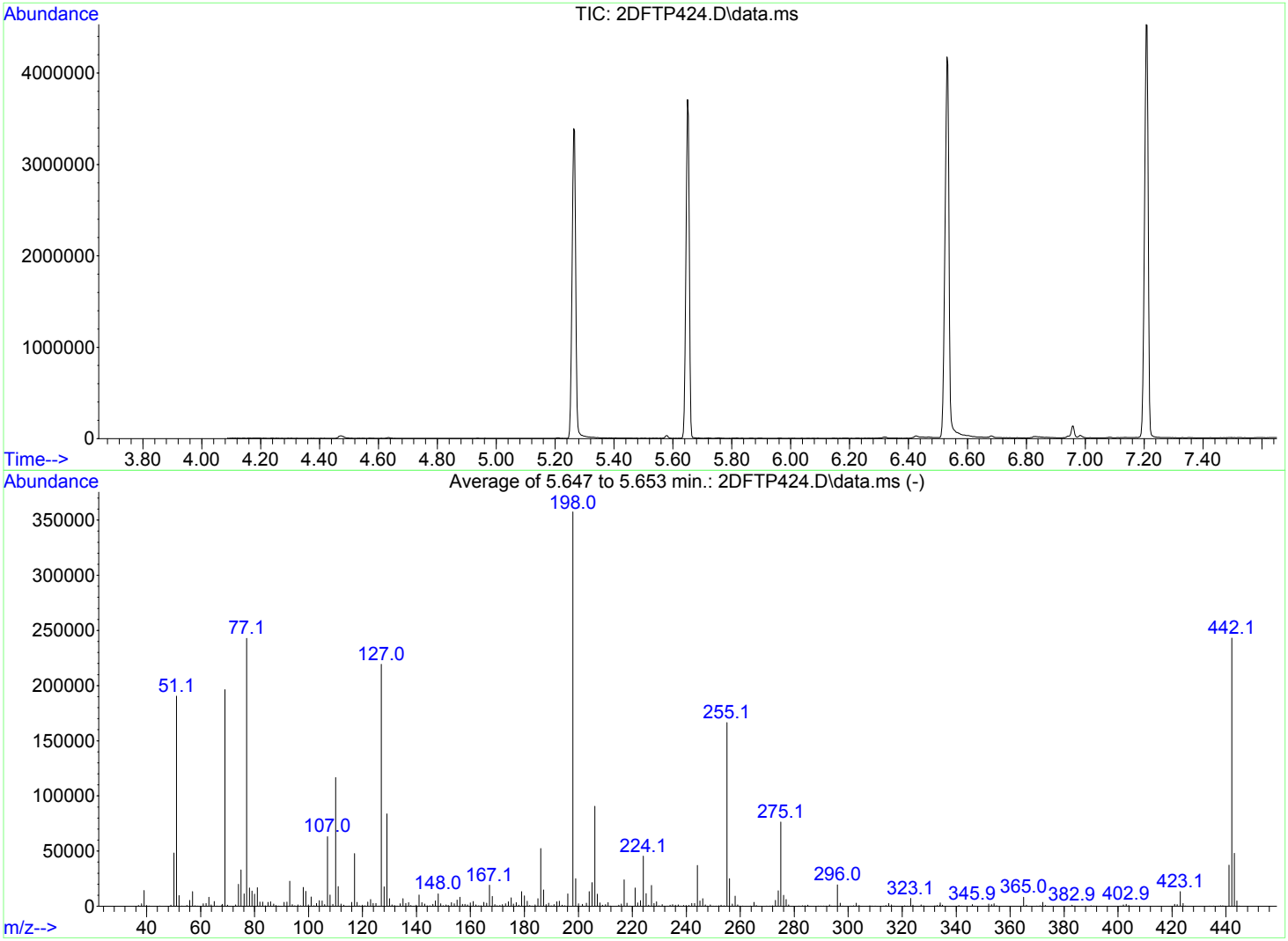
Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
2IB01	1.00	1.00	1.00	Instrument blank 1000ul+10ul IS SVMS8553	21 Nov 2019	17:31
2IB02	1.00	1.00	1.00	Instrument blank 1000ul+10ul IS SVMS8553	21 Nov 2019	18:05
2ICAL1	1.00	1.00	1.00	ICAL 0.1 ug/ml SVMS8543 1000ul+10ul IS SVMS8553	21 Nov 2019	18:25
2ICAL2	1.00	1.00	1.00	ICAL 0.2 ug/ml SVMS8544 1000ul+10ul IS SVMS8553	21 Nov 2019	18:45
2ICAL3	1.00	1.00	1.00	ICAL 0.5 ug/ml SVMS8545 1000ul+10ul IS SVMS8553	21 Nov 2019	19:05
2ICAL4	1.00	1.00	1.00	ICAL 1.0 ug/ml SVMS8546 1000ul+10ul IS SVMS8553	21 Nov 2019	19:25
2ICAL5	1.00	1.00	1.00	ICAL 1.5 ug/ml SVMS8547 1000ul+10ul IS SVMS8553	21 Nov 2019	19:45
2ICAL6	1.00	1.00	1.00	ICAL 2.0 ug/ml SVMS8548 1000ul+10ul IS SVMS8553	21 Nov 2019	20:06
2ICAL7	1.00	1.00	1.00	ICAL 2.5 ug/ml SVMS8549 1000ul+10ul IS SVMS8553	21 Nov 2019	20:26
2ICV1	1.00	1.00	1.00	ICV 1.0 ug/ml SVMS8550 1000ul+10ul IS SVMS8553	21 Nov 2019	20:46
2ICV2	1.00	1.00	1.00	ICV 2.0 ug/ml SVMS8551 1000ul+10ul IS SVMS8553	21 Nov 2019	21:06
2ICV2	1.00	1.00	1.00	ICV 2.0 ug/ml SVMS8551 1000ul+10ul IS SVMS8553	21 Nov 2019	21:06
2ICV2	1.00	1.00	1.00	ICV 2.0 ug/ml SVMS8551 1000ul+10ul IS SVMS8553	21 Nov 2019	21:06
2IB03	1.00	1.00	1.00	Instrument blank 1000ul+10ul IS SVMS8553	22 Nov 2019	09:46
2DFTP425	1.00	1.00	1.00	DFTPP TUNE SVMS8353 SVMS2, 50ng DFTPP	22 Nov 2019	10:02
2DFTP426	1.00	1.00	1.00	DFTPP TUNE SVMS8353 SVMS2, 50ng DFTPP	22 Nov 2019	10:18
2ICAL2R	1.00	1.00	1.00	ICAL 0.2 ug/ml SVMS8544 1000ul+10ul IS SVMS8553	22 Nov 2019	10:33
2ICAL3R	1.00	1.00	1.00	ICAL 0.5 ug/ml SVMS8545 1000ul+10ul IS SVMS8553	22 Nov 2019	11:09
2ICV1R	1.00	1.00	1.00	ICV 1.0 ug/ml SVMS8550 1000ul+10ul IS SVMS8553	22 Nov 2019	11:44

DFTPP

Data File : C:\INSTARCH\DATA\2S112119\2DFTP424.D Vial: 1
Acq On : 21 Nov 2019 17:15 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



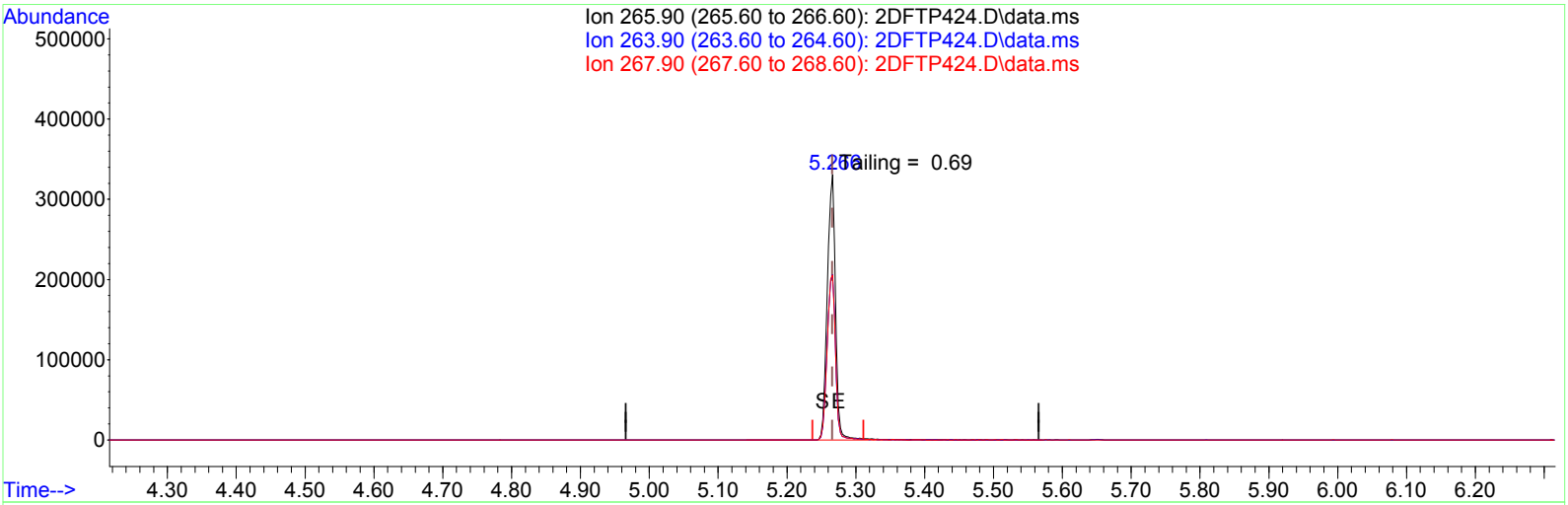
AutoFind: Scans 550, 551, 552; Background Corrected with Scan 541

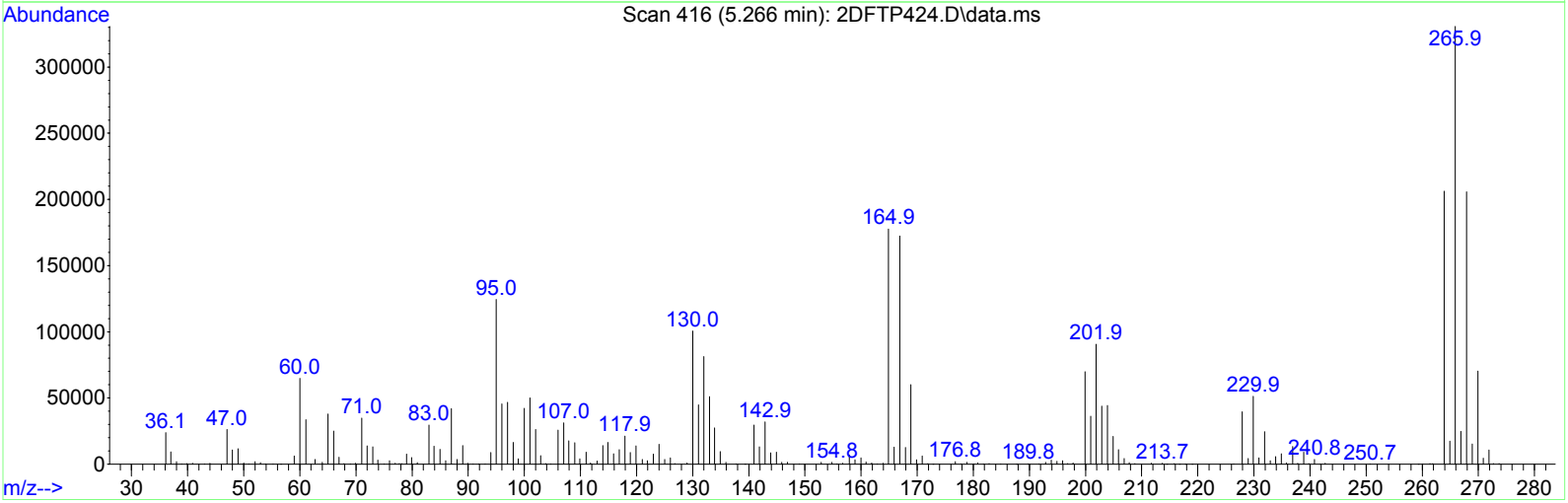
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	53.3	190485	PASS
68	69	0.00	2	1.0	1933	PASS
70	69	0.00	2	0.5	1074	PASS
127	198	10	80	61.4	219307	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	357461	PASS
199	198	5	9	7.0	25112	PASS
275	198	10	60	21.3	76301	PASS
365	198	1	100	2.3	8309	PASS
441	442	0.01	24	15.3	37251	PASS
442	198	50	100	68.0	243115	PASS
443	442	15	24	19.8	48133	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112119\2DFTP424.D Vial: 1
Acq On : 21 Nov 2019 17:15 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 21 17:35:54 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M





TIC: 2DFTP424.D\data.ms

(1) Pentachlorophenol

5.266min (+ 0.000) 15.78 ng

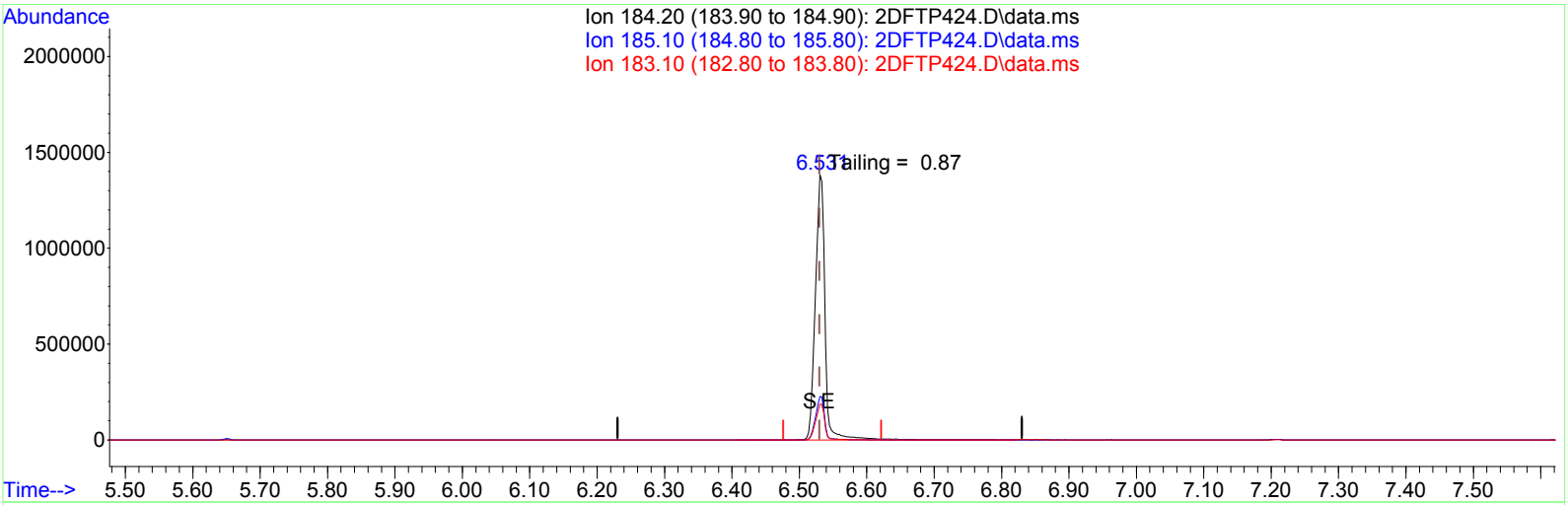
response 273436

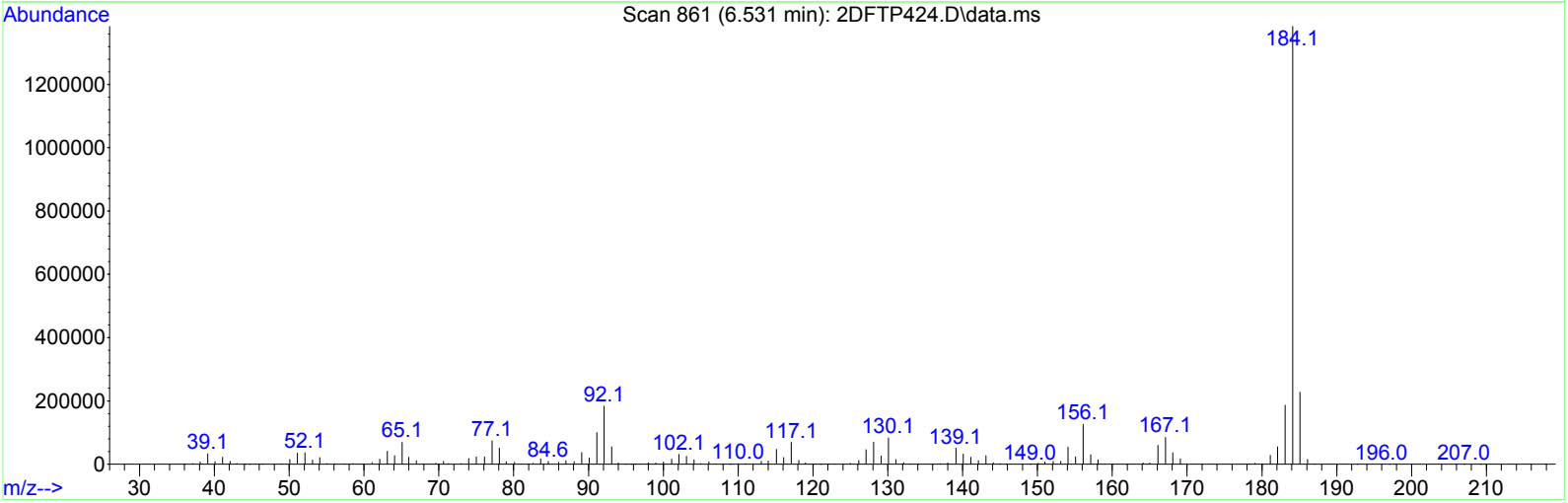
Ion	Exp%	Act%
265.90	100.00	100.00
263.90	64.60	64.21
267.90	65.00	63.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112119\2DFTP424.D Vial: 1
Acq On : 21 Nov 2019 17:15 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 21 17:35:54 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M





TIC: 2DFTP424.D\data.ms

(3) Benzidine

6.531min (0.000) 20.93 ng

response 1375777

Ion	Exp%	Act%
184.20	100.00	100.00
185.10	15.90	15.77
183.10	12.20	12.70
0.00	0.00	0.00

Data File	:	2DFTP424.D	Vial Number	:	1
Data File Path	:	C:\INSTARCH\DATA\2S112119\	Operator	:	RPN
Date Aquired	:	11/21/2019 17:15	Instrument Name	:	SVMS2
Sample Name	:	DFTPP TUNE SVMS8353	Sample Multiplier	:	1
Misc Info	:	SVMS2, 50ng DFTPP			

Calibration Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019

#	Compound	R.T.	QIon	Response
1)	Pentachlorophenol	5.27	266	273436.00
2)	DFTPP	5.65	198	300617.00
3)	Benzidine	6.53	184	1375777.00
4)	DDE	6.68	246	1473.00
5)	DDD	6.96	235	18441.00
6)	DDT	7.21	235	625585.00

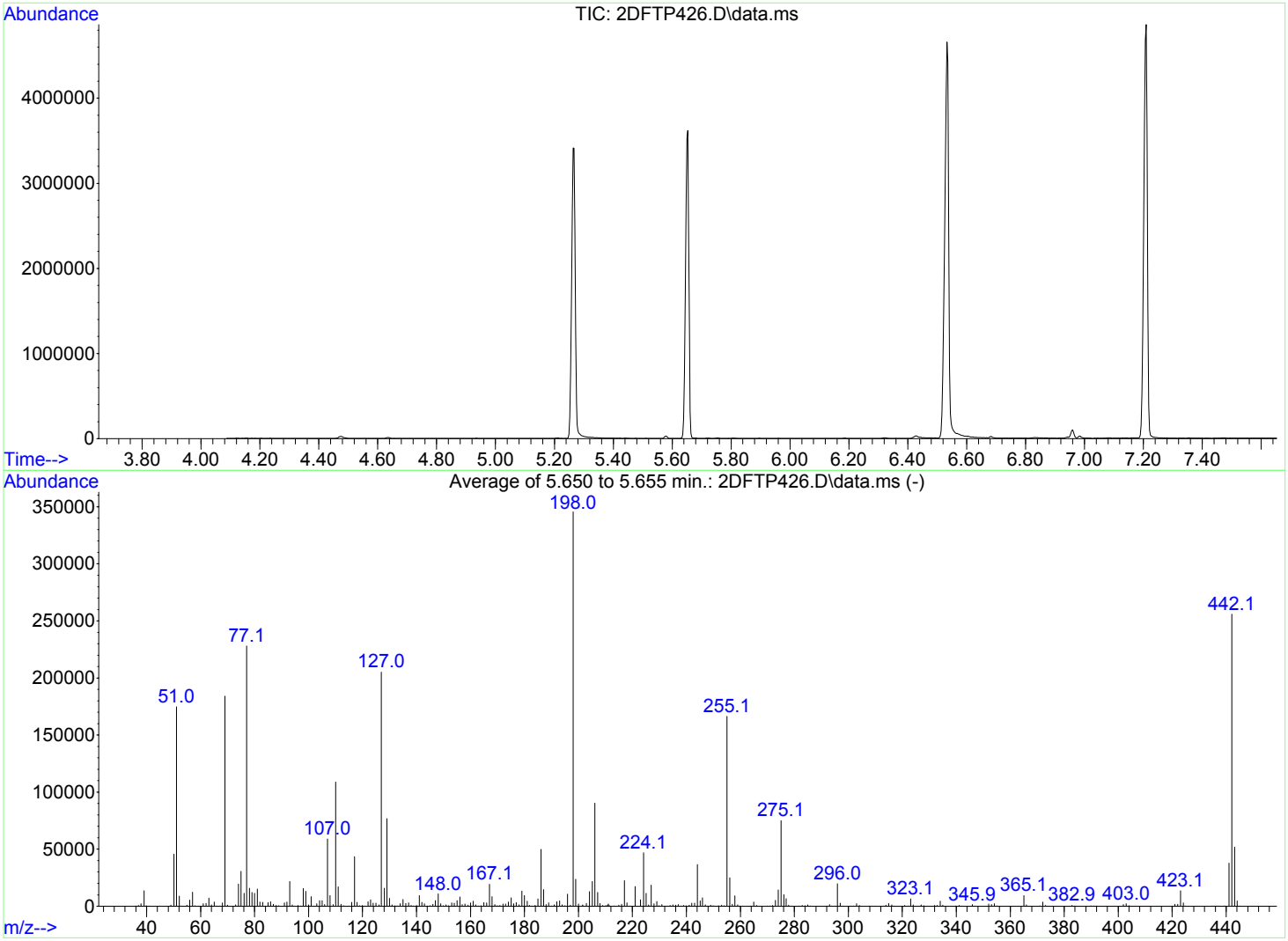
DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \qquad 3.09\ \%$$

DFTPP

Data File : C:\INSTARCH\DATA\2S112119\2DFTP426.D Vial: 1
Acq On : 22 Nov 2019 10:18 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



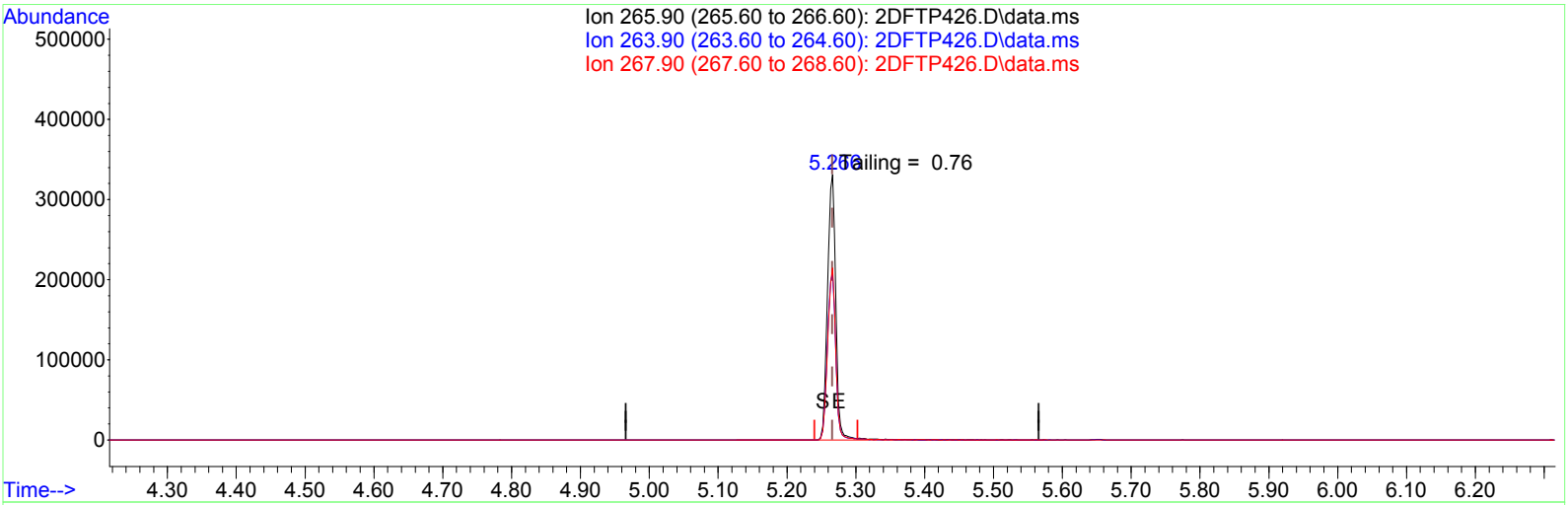
AutoFind: Scans 551, 552, 553; Background Corrected with Scan 541

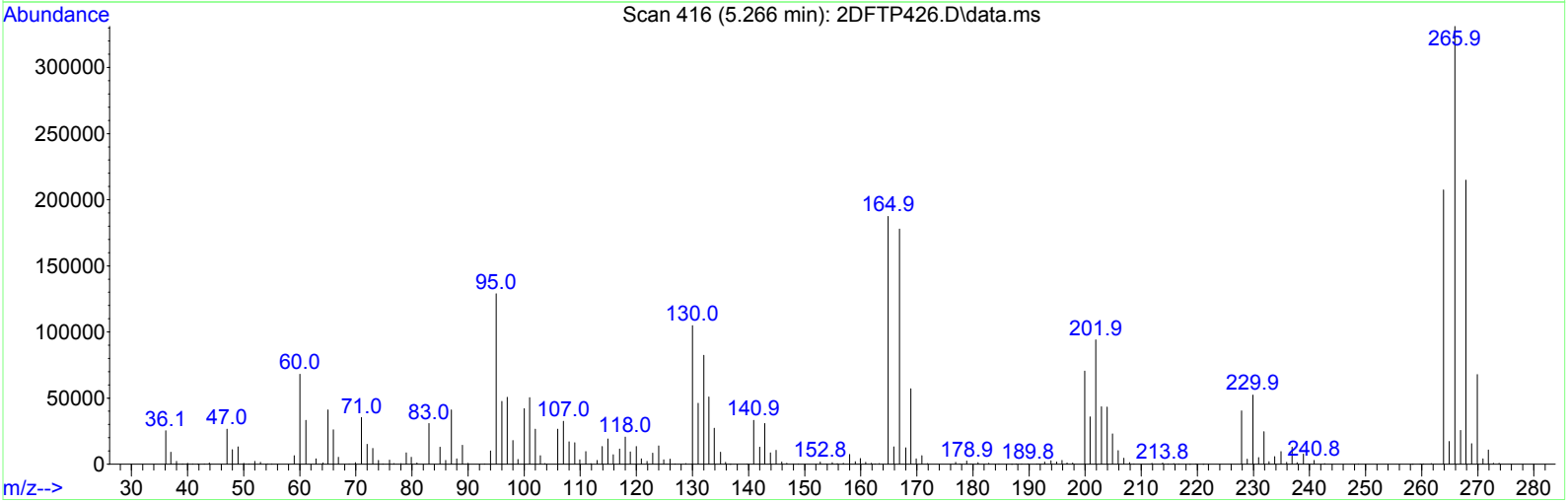
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.6	174810	PASS
68	69	0.00	2	1.6	2971	PASS
70	69	0.00	2	0.5	924	PASS
127	198	10	80	59.4	205141	PASS
197	198	0.00	2	0.3	965	PASS
198	198	50	100	100.0	345536	PASS
199	198	5	9	6.9	23765	PASS
275	198	10	60	21.7	74960	PASS
365	198	1	100	2.7	9454	PASS
441	442	0.01	24	14.8	37792	PASS
442	198	50	100	74.0	255829	PASS
443	442	15	24	20.2	51789	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112119\2DFTP426.D Vial: 1
Acq On : 22 Nov 2019 10:18 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 10:33:39 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M





TIC: 2DFTP426.D\data.ms

(1) Pentachlorophenol

5.266min (+ 0.000) 15.88 ng

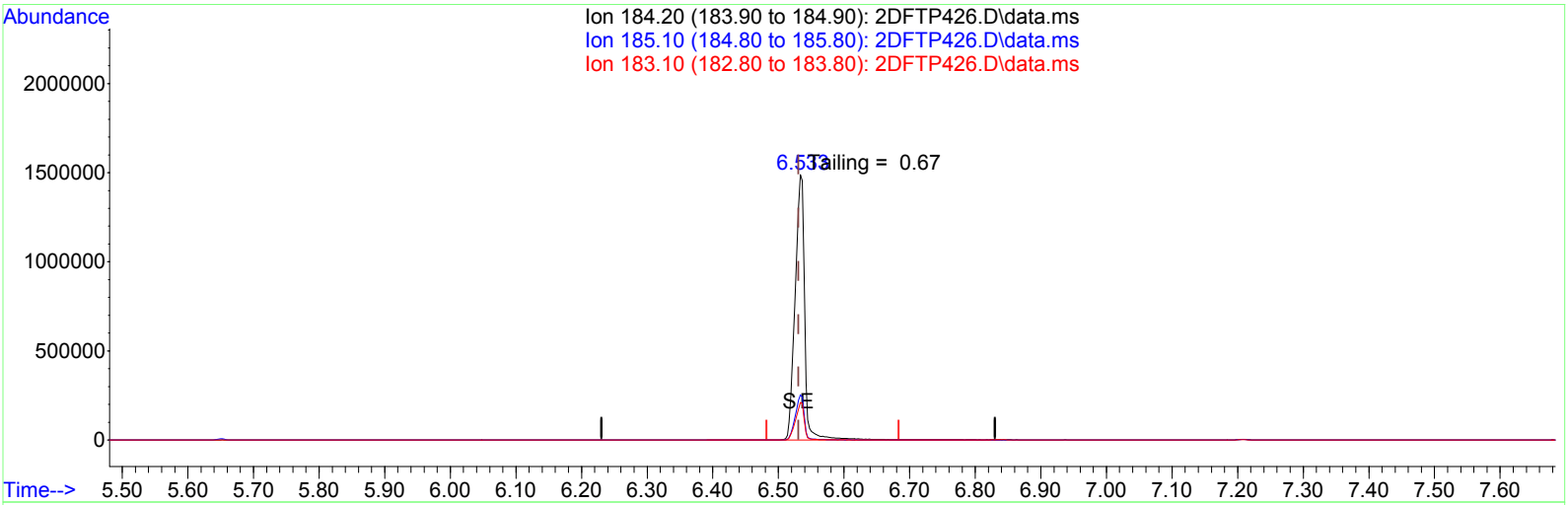
response 275112

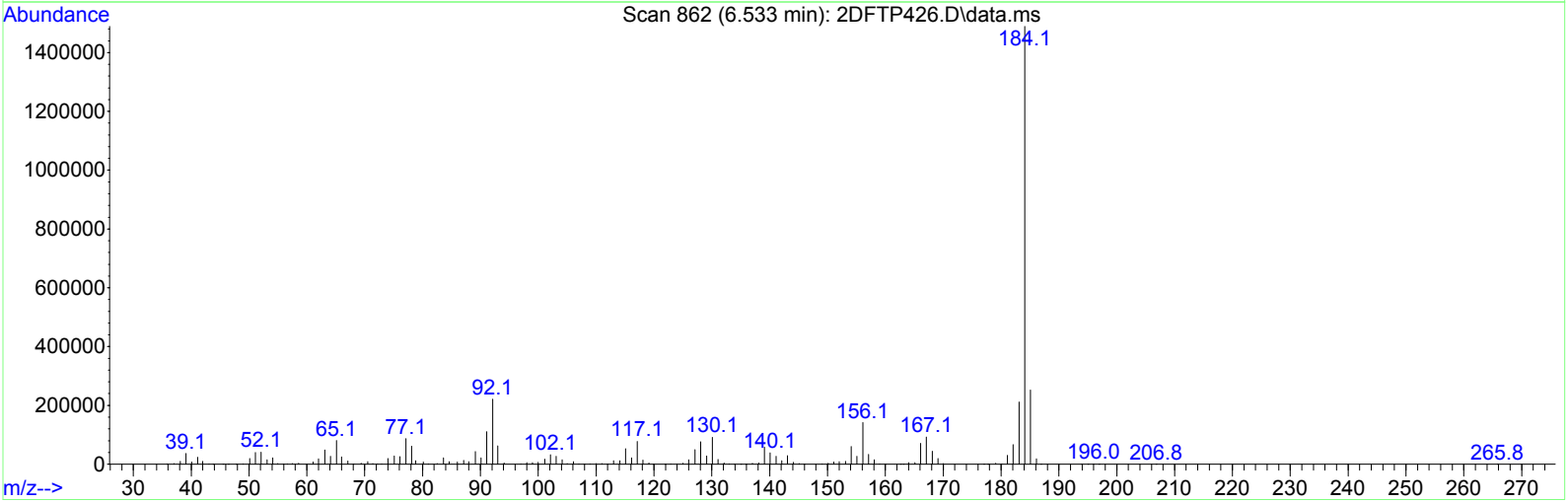
Ion	Exp%	Act%
265.90	100.00	100.00
263.90	64.60	63.99
267.90	65.00	63.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112119\2DFTP426.D Vial: 1
Acq On : 22 Nov 2019 10:18 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 10:33:39 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M





TIC: 2DFTP426.D\data.ms

(3) Benzidine

6.533min (+ 0.003) 22.87 ng

response 1503182

Ion	Exp%	Act%
184.20	100.00	100.00
185.10	15.90	15.95
183.10	12.20	12.90
0.00	0.00	0.00

Data File	:	2DFTP426.D	Vial Number	:	1
Data File Path	:	C:\INSTARCH\DATA\2S112119\	Operator	:	RPN
Date Aquired	:	11/22/2019 10:18	Instrument Name	:	SVMS2
Sample Name	:	DFTPP TUNE SVMS8353	Sample Multiplier	:	1
Misc Info	:	SVMS2, 50ng DFTPP			

Calibration Title	:	DFTPP TUNE
Last Update	:	Thu Nov 21 17:35:43 2019

#	Compound	R.T.	QIon	Response
1)	Pentachlorophenol	5.27	266	275112.00
2)	DFTPP	5.65	198	301251.00
3)	Benzidine	6.53	184	1503182.00
4)	DDE	6.68	246	1379.00
5)	DDD	6.96	235	14278.00
6)	DDT	7.21	235	645492.00

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \qquad 2.37\ \%$$

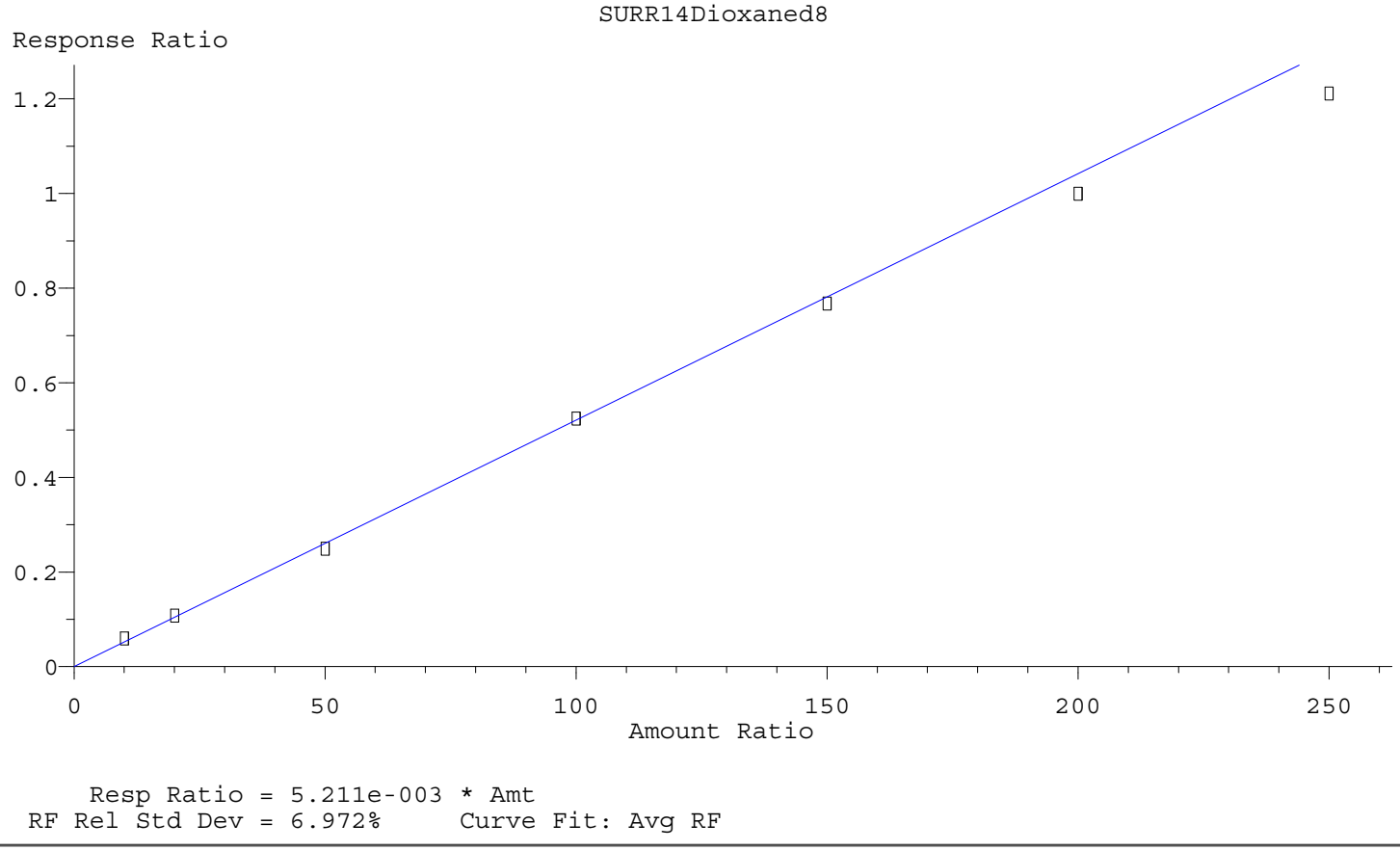
Response Factor Report SVMS2

Method Path : C:\INSTARCH\METHOD\
Method File : 2DIOXN7A.M
Title : Method for 8270 Analysis
Last Update : Mon Nov 25 11:14:45 2019
Response Via : Initial Calibration

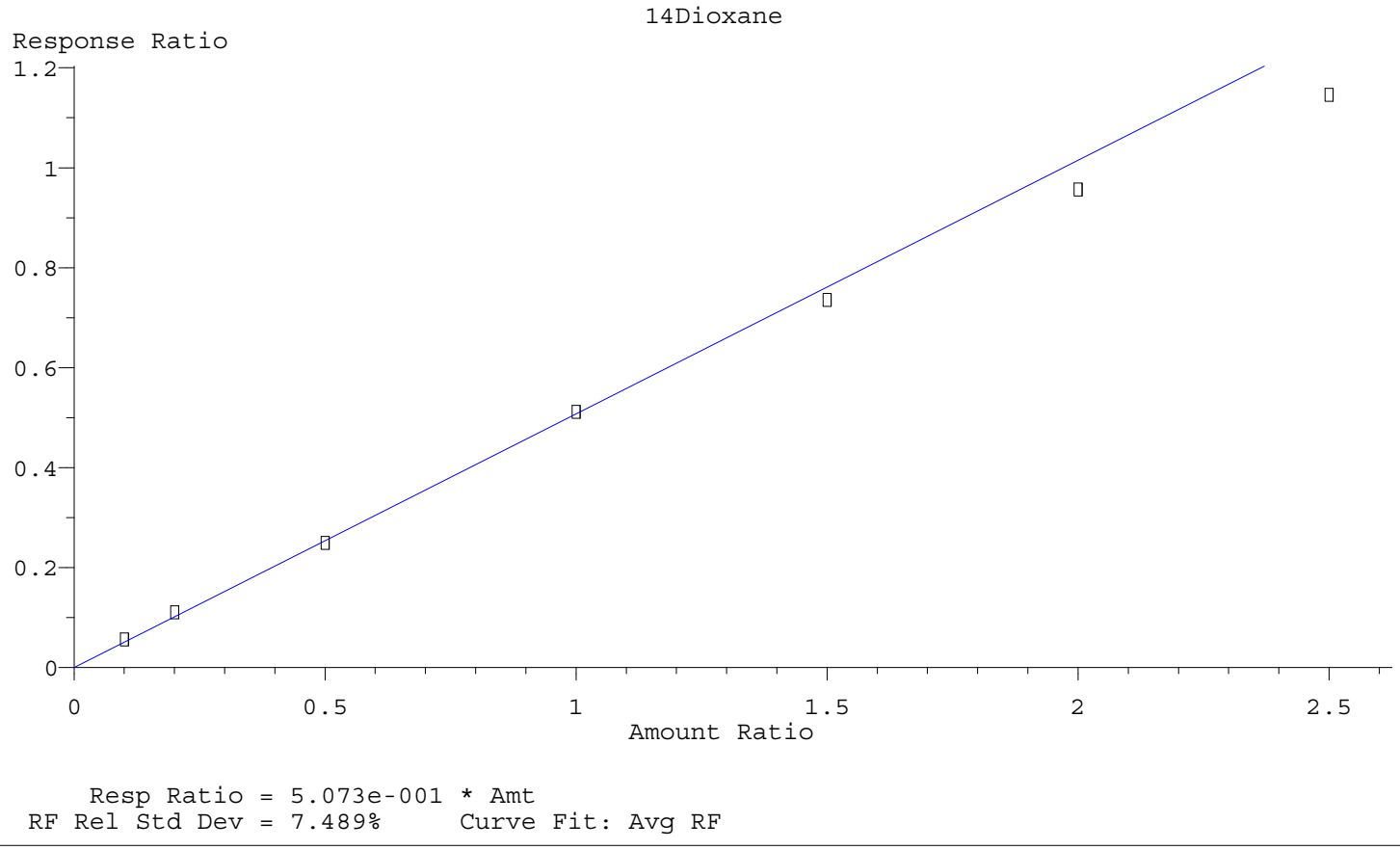
Calibration Files
1 =2ICAL1.D 2 =2ICAL2R.D 3 =2ICAL3R.D 4 =2ICAL4.D 5 =2ICAL5.D 6 =2ICAL6.D 7 =2ICAL7.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
1)	I	14Diclbenzd4	----------ISTD----------								
2)	S	SURR14Dioxaned8	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	6.97
3)	CT	14Dioxane	0.563	0.551	0.499	0.512	0.490	0.478	0.458	0.507	7.49

(#) = Out of Range



Resp Ratio = 5.211e-003 * Amt
RF Rel Std Dev = 6.972% Curve Fit: Avg RF



Resp Ratio = 5.073e-001 * Amt
RF Rel Std Dev = 7.489% Curve Fit: Avg RF

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2IB02.D Vial: 99
Acq On : 21 Nov 2019 18:05 Operator: RPN
Sample : Instrument blank Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 10:23:20 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

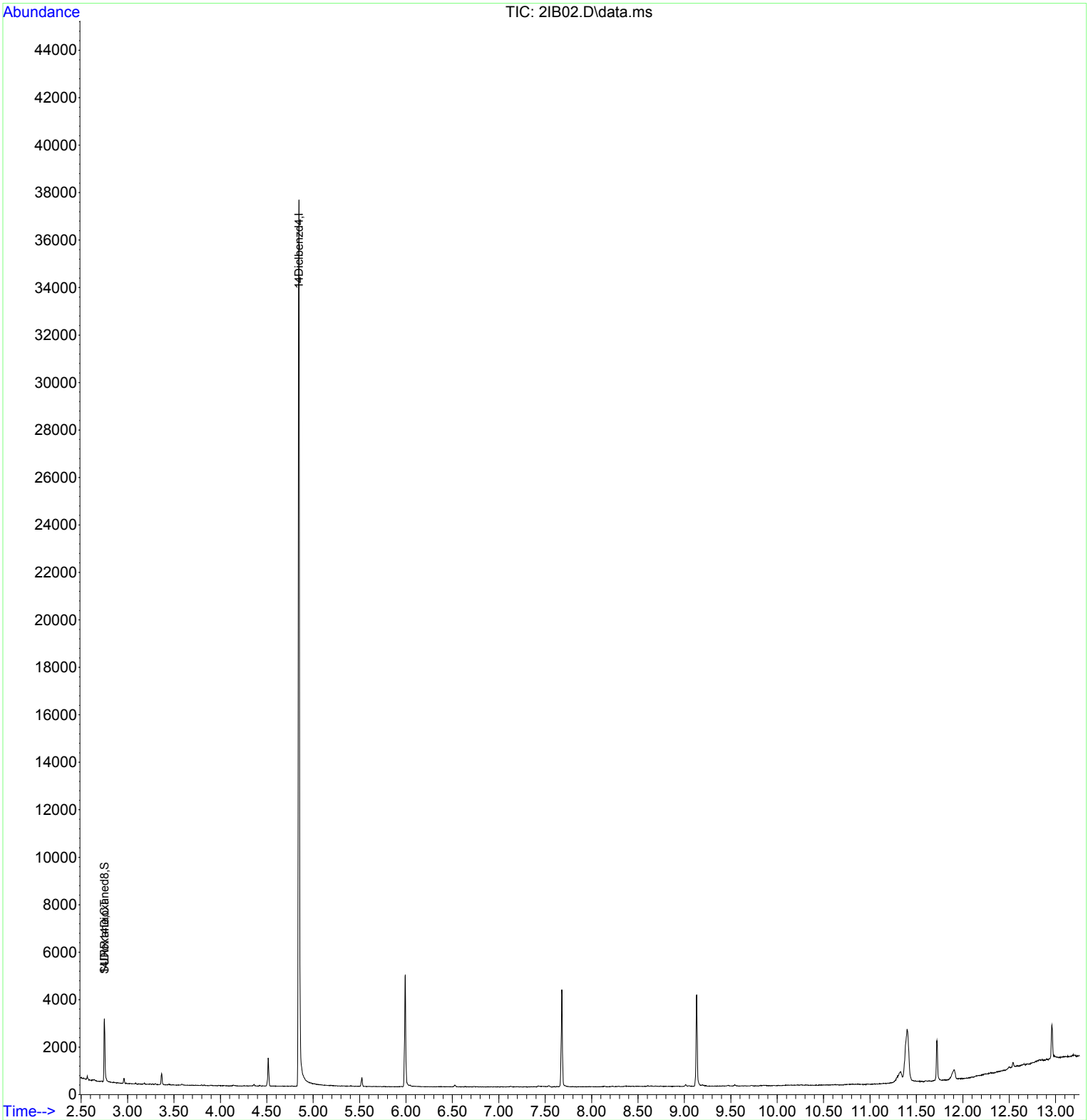
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	32802	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.751	64	296	1.73	%REC	0.07
Spiked Amount 100.000			Recovery = 1.73%			
Target Compounds						Qvalue
3) 14Dioxane	2.751	58	1824	0.1096	ug/mL#	1

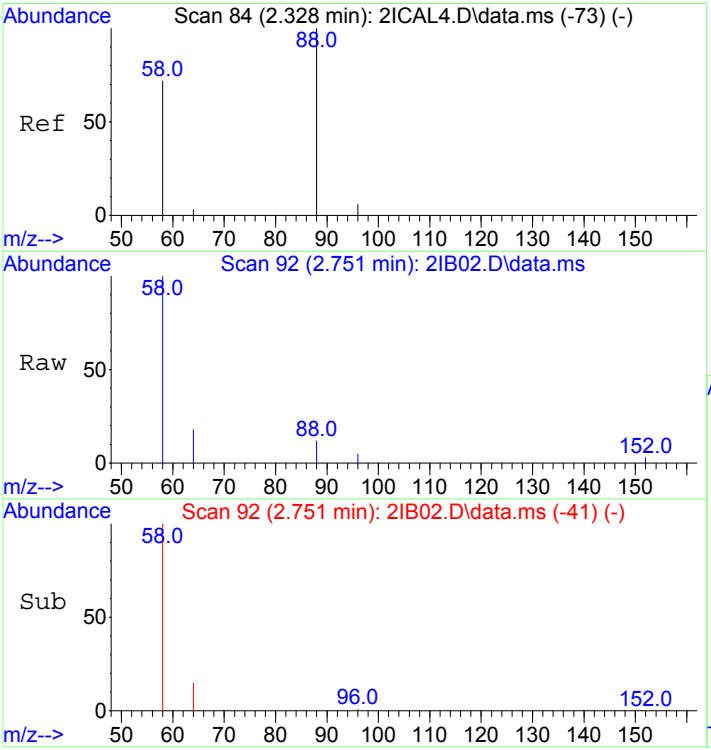
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2IB02.D Vial: 99
Acq On : 21 Nov 2019 18:05 Operator: RPN
Sample : Instrument blank Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 10:23:20 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

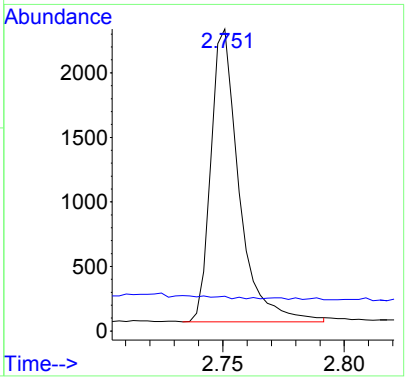




#3
14Dioxane
Concen: 0.11 ug/mL
RT: 2.751 min Scan# 92
Delta R.T. 0.049 min
Lab File: 2IB02.D
Acq: 21 Nov 2019 18:05

Tgt Ion: 58 Resp: 1824

Ion	Ratio	Lower	Upper
58	100		
88	3.9	100.1	160.1#



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL1.D Vial: 2
Acq On : 21 Nov 2019 18:25 Operator: RPN
Sample : ICAL 0.1 ug/ml SVMS8543 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:40 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

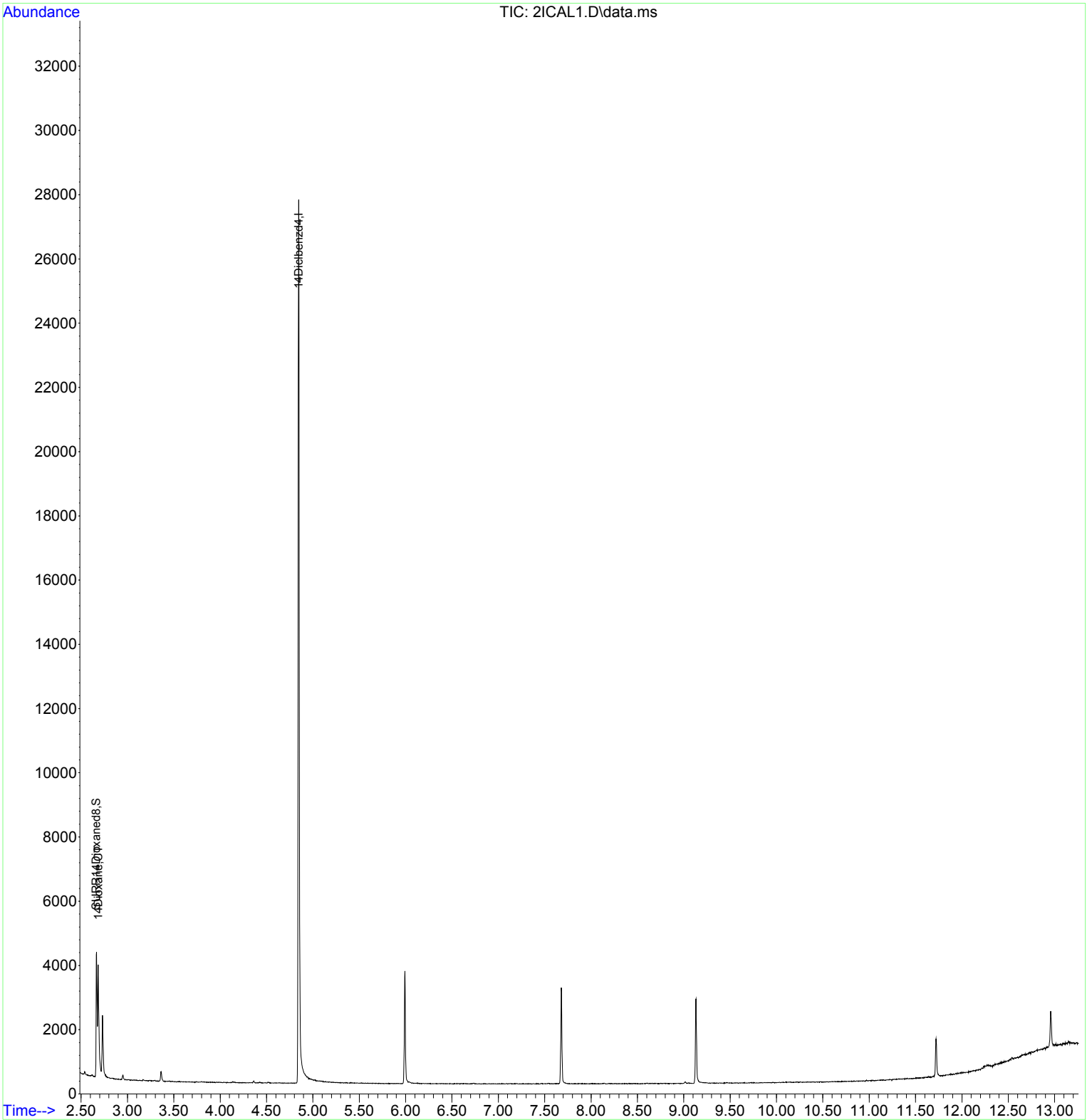
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	23942	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.664	64	1420	11.38	%REC	-0.02
Spiked Amount 100.000			Recovery = 11.38%			
Target Compounds						Qvalue
3) 14Dioxane	2.684	58	1349	0.1111	ug/mL	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL1.D Vial: 2
Acq On : 21 Nov 2019 18:25 Operator: RPN
Sample : ICAL 0.1 ug/ml SVMS8543 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:40 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL2R.D Vial: 3
Acq On : 22 Nov 2019 10:33 Operator: RPN
Sample : ICAL 0.2 ug/ml SVMS8544 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:43 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

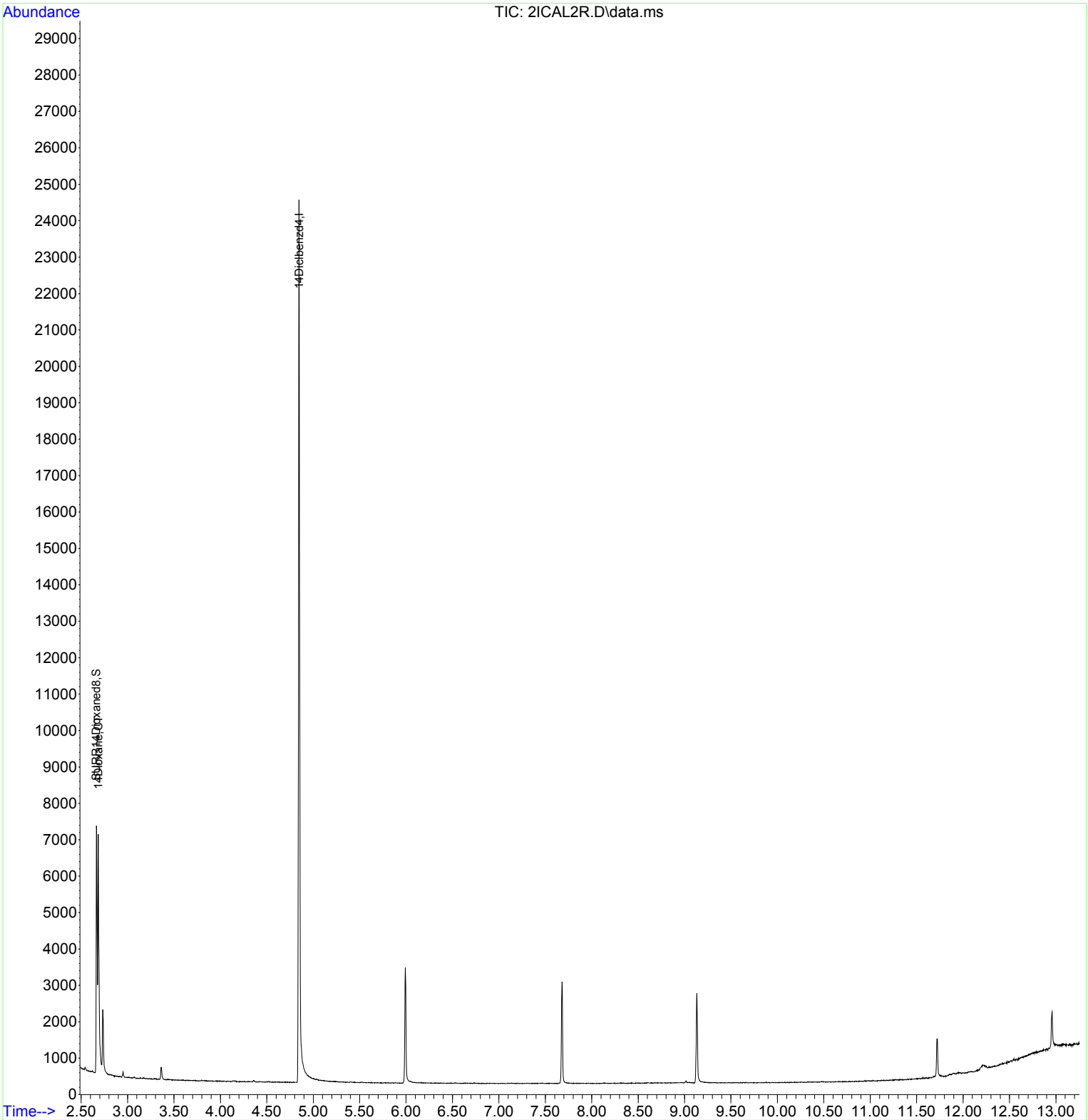
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	21935	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.664	64	2357	20.62	%REC	-0.02
Spiked Amount 100.000			Recovery = 20.62%			
Target Compounds						Qvalue
3) 14Dioxane	2.684	58	2416	0.2171	ug/mL	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL2R.D Vial: 3
Acq On : 22 Nov 2019 10:33 Operator: RPN
Sample : ICAL 0.2 ug/ml SVMS8544 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:43 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL3R.D Vial: 4
Acq On : 22 Nov 2019 11:09 Operator: RPN
Sample : ICAL 0.5 ug/ml SVMS8545 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:46 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

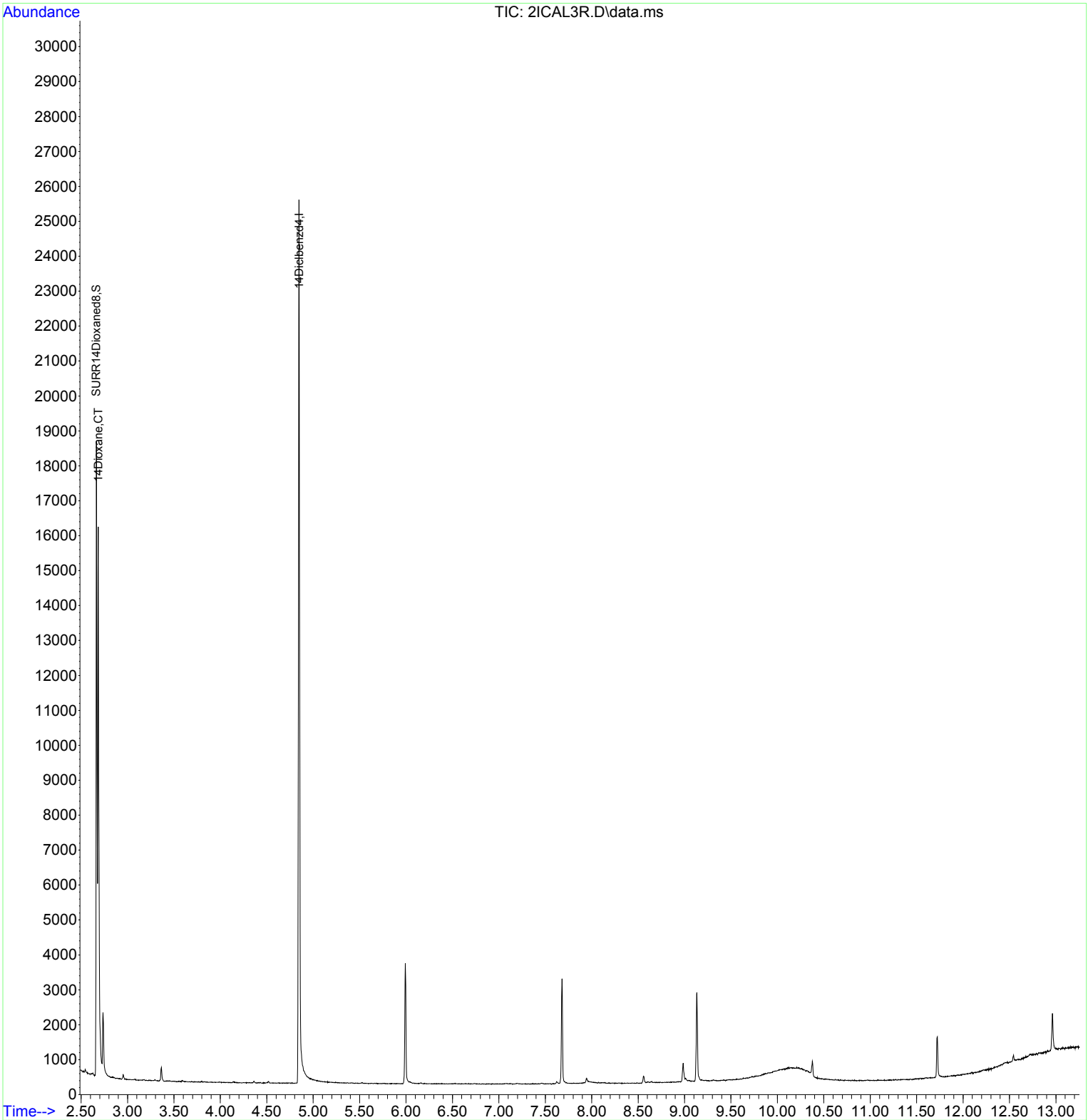
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	23007	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.664	64	5722	47.73	%REC	-0.02
Spiked Amount 100.000			Recovery = 47.73%			
Target Compounds						Qvalue
3) 14Dioxane	2.684	58	5741	0.4918	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL3R.D Vial: 4
Acq On : 22 Nov 2019 11:09 Operator: RPN
Sample : ICAL 0.5 ug/ml SVMS8545 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:46 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL4.D Vial: 5
Acq On : 21 Nov 2019 19:25 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8546 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:48 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

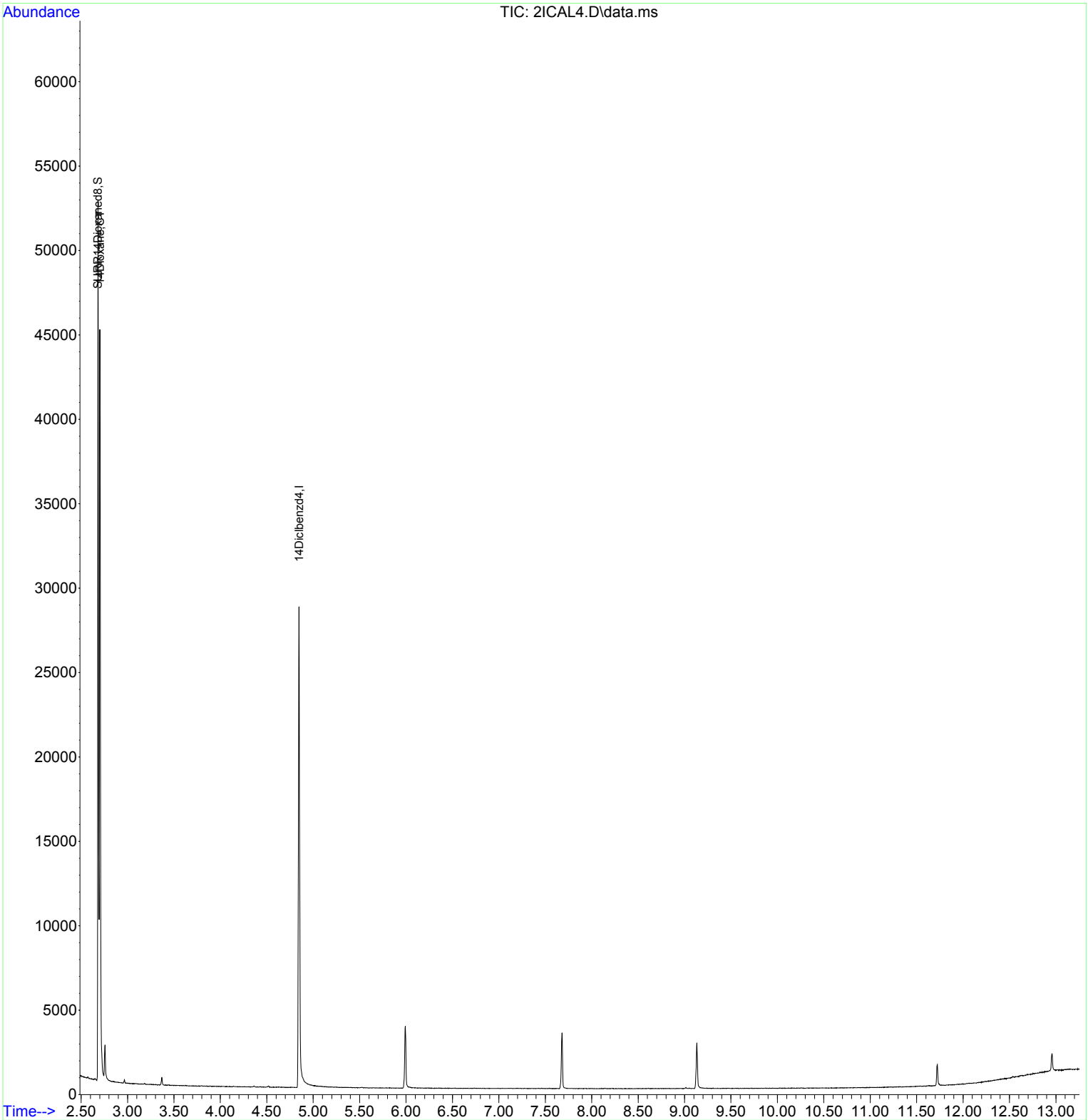
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	27022	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.681	64	14166	100.61	%REC	0.00
Spiked Amount 100.000			Recovery = 100.61%			
Target Compounds						Qvalue
3) 14Dioxane	2.702	58	13822	1.0082	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL4.D Vial: 5
Acq On : 21 Nov 2019 19:25 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8546 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:48 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL5.D Vial: 6
Acq On : 21 Nov 2019 19:45 Operator: RPN
Sample : ICAL 1.5 ug/ml SVMS8547 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:51 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

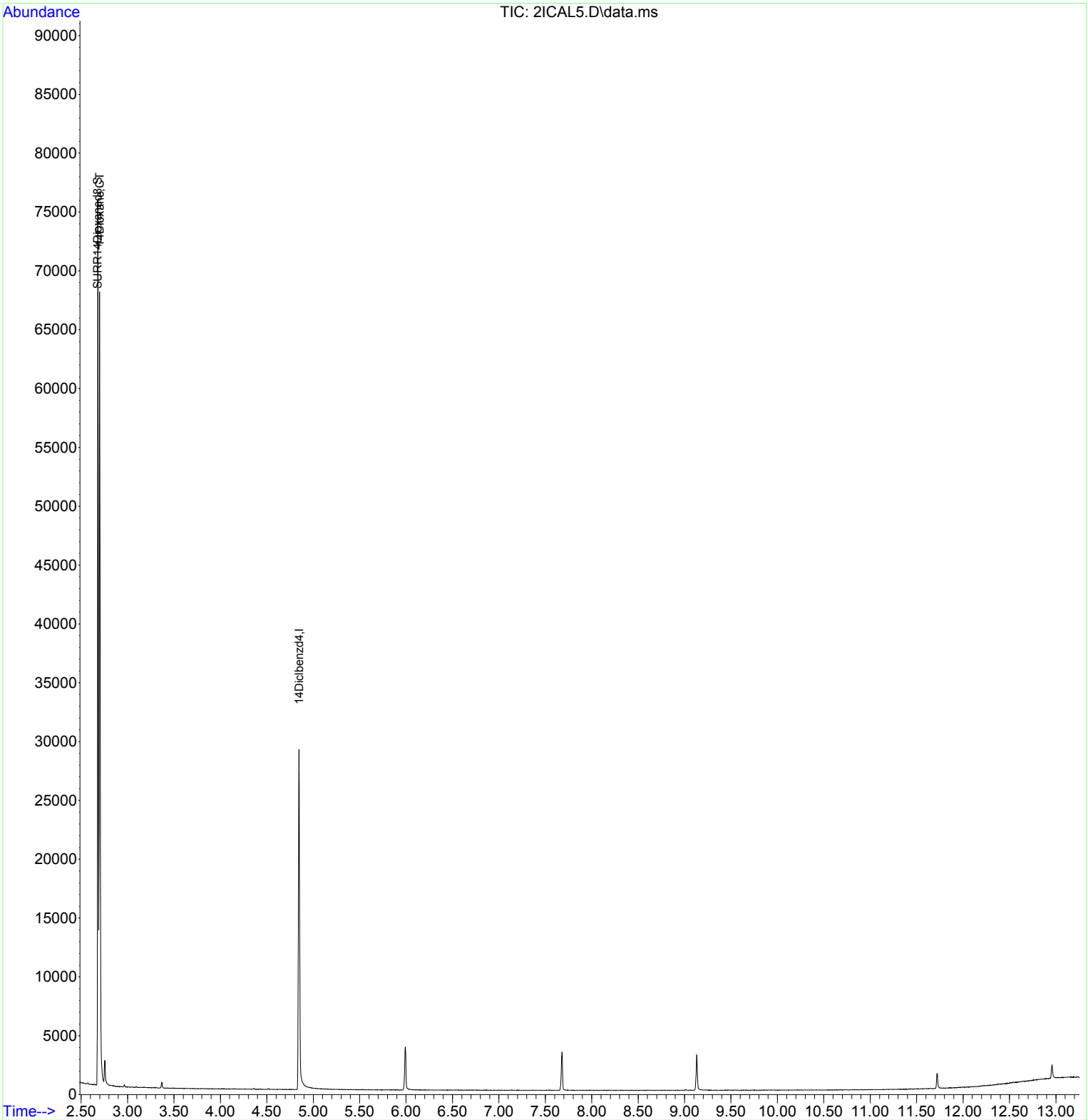
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	27550	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.678	64	21134	147.22	%REC	0.00
Spiked Amount 100.000			Recovery = 147.22%			
Target Compounds						Qvalue
3) 14Dioxane	2.699	58	20253	1.4490	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL5.D Vial: 6
Acq On : 21 Nov 2019 19:45 Operator: RPN
Sample : ICAL 1.5 ug/ml SVMS8547 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:51 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL6.D Vial: 7
Acq On : 21 Nov 2019 20:06 Operator: RPN
Sample : ICAL 2.0 ug/ml SVMS8548 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:54 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

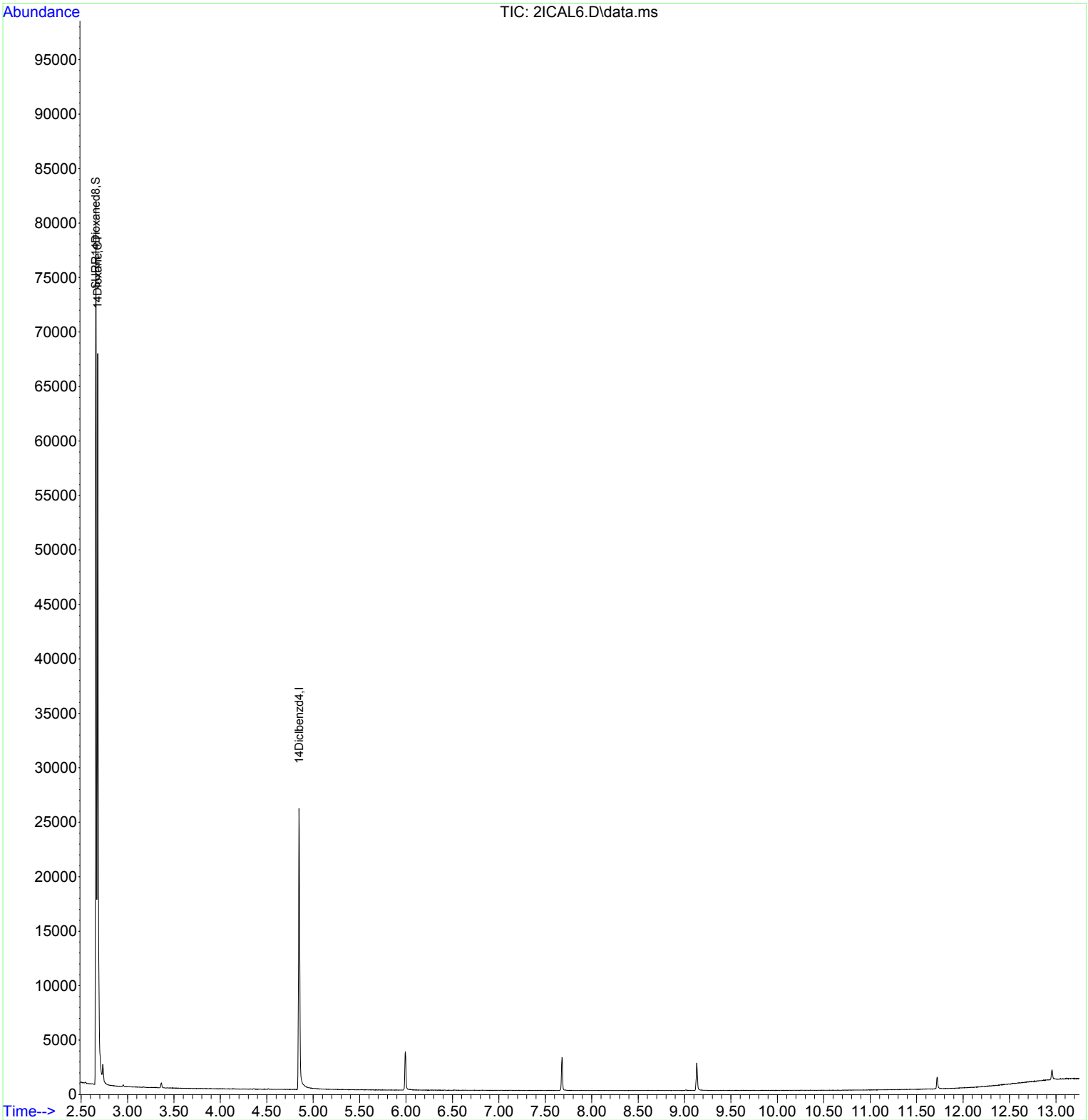
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	23903	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.658	64	23891	191.82	%REC	-0.02
Spiked Amount 100.000			Recovery = 191.82%			
Target Compounds						Qvalue
3) 14Dioxane	2.679	58	22863	1.8853	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL6.D Vial: 7
Acq On : 21 Nov 2019 20:06 Operator: RPN
Sample : ICAL 2.0 ug/ml SVMS8548 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:54 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL7.D Vial: 8
Acq On : 21 Nov 2019 20:26 Operator: RPN
Sample : ICAL 2.5 ug/ml SVMS8549 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:56 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

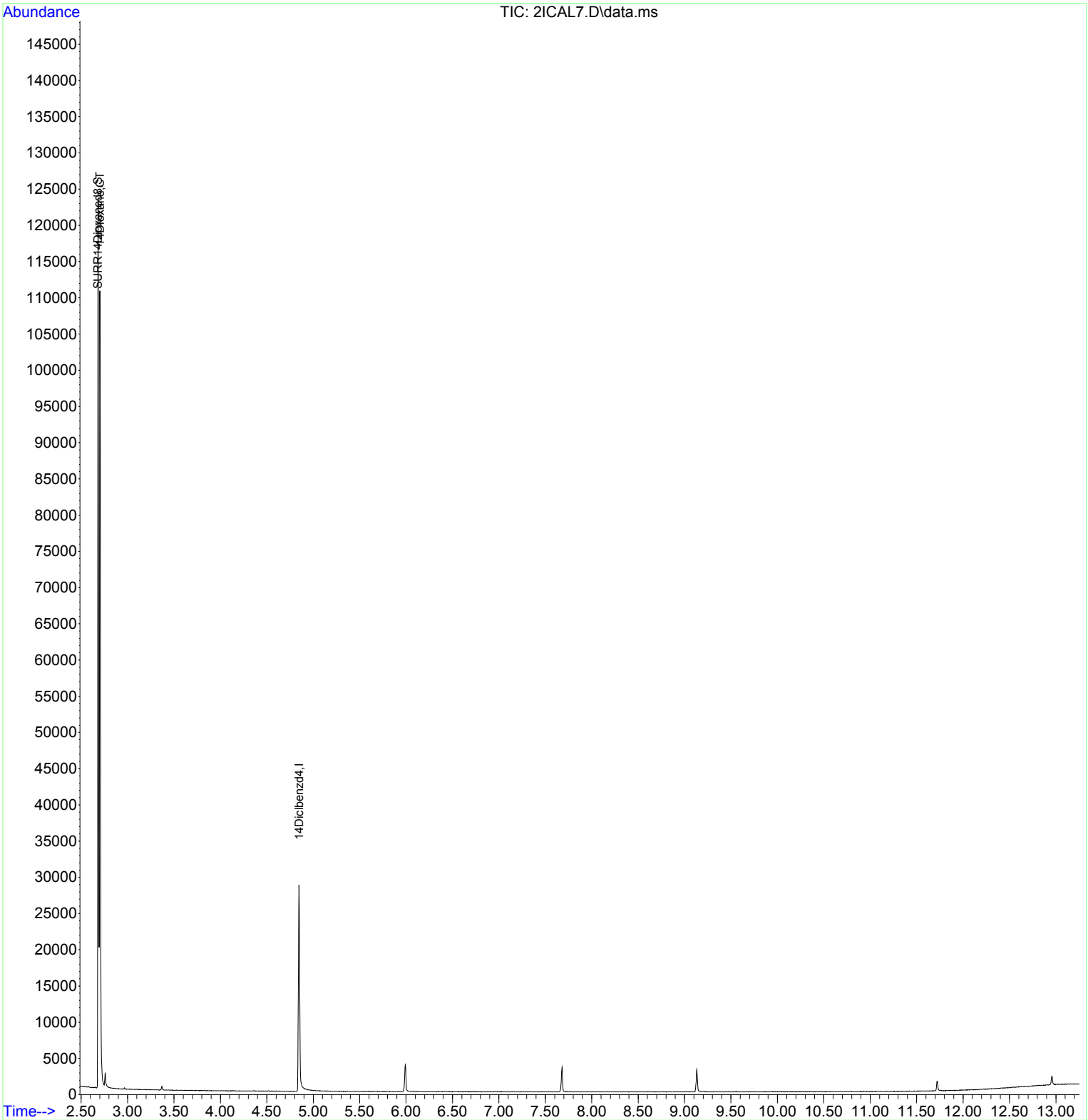
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	28127	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.681	64	34057	232.37	%REC	0.00
Spiked Amount 100.000			Recovery = 232.37%			
Target Compounds						Qvalue
3) 14Dioxane	2.702	58	32229	2.2585	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL7.D Vial: 8
Acq On : 21 Nov 2019 20:26 Operator: RPN
Sample : ICAL 2.5 ug/ml SVMS8549 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:56 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112119\2ICV1.D Vial: 9
Acq On : 21 Nov 2019 20:46 Operator: RPN
Sample : ICV 1.0 ug/ml SVMS8550 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 10:27:05 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	74	0.00
2	S	SURR14Dioxaned8	100.000	102.719	-2.7	76	-0.04
3	CT	14Dioxane	1.000	0.921	7.9	68	-0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICV1.D Vial: 9
Acq On : 21 Nov 2019 20:46 Operator: RPN
Sample : ICV 1.0 ug/ml SVMS8550 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 10:27:05 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

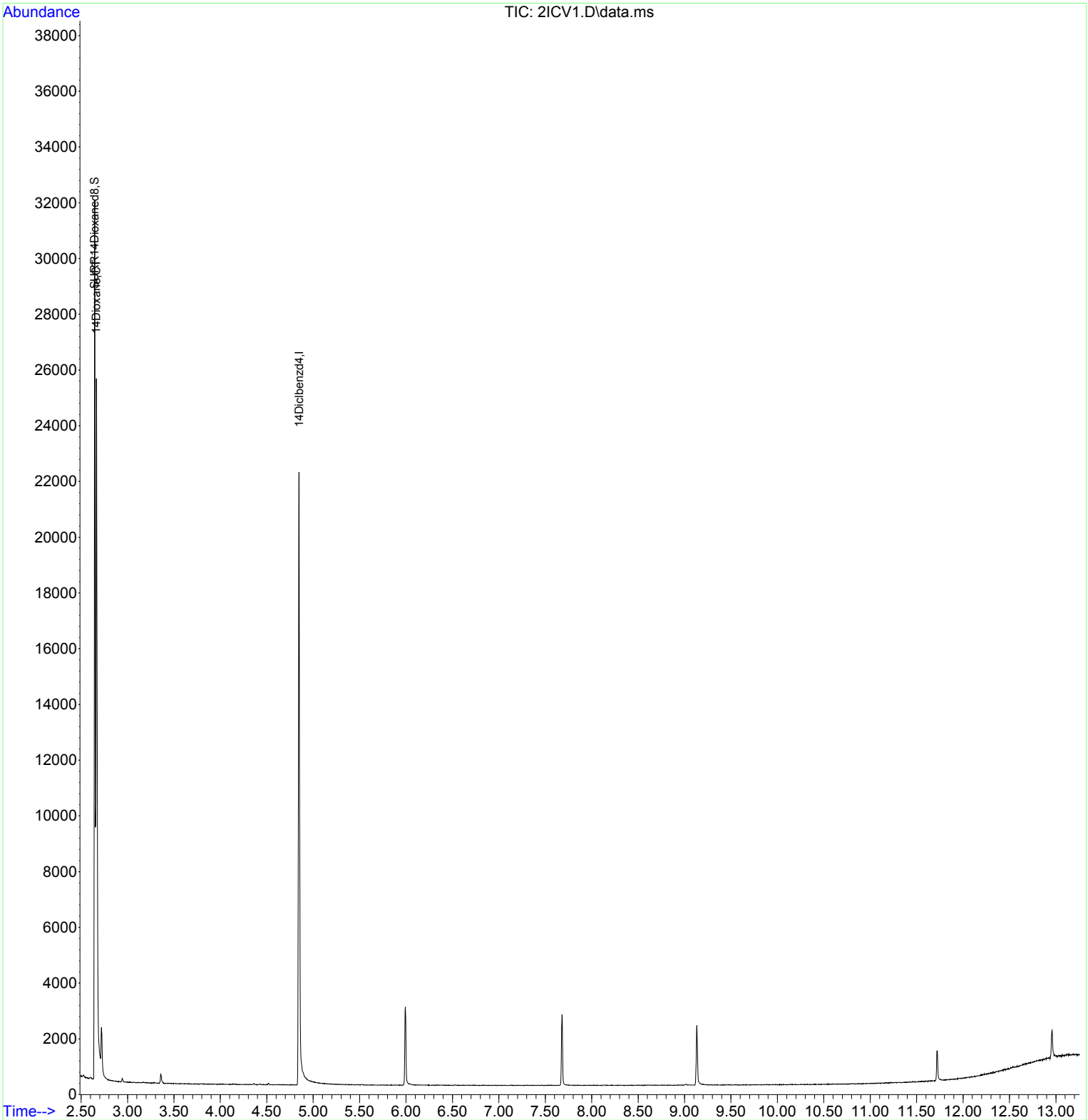
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	19991	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.644	64	10700	102.72	%REC	-0.04
Spiked Amount 100.000			Recovery = 102.72%			
Target Compounds						Qvalue
3) 14Dioxane	2.664	58	9341	0.9210	ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICV1.D Vial: 9
Acq On : 21 Nov 2019 20:46 Operator: RPN
Sample : ICV 1.0 ug/ml SVMS8550 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 10:27:05 2019

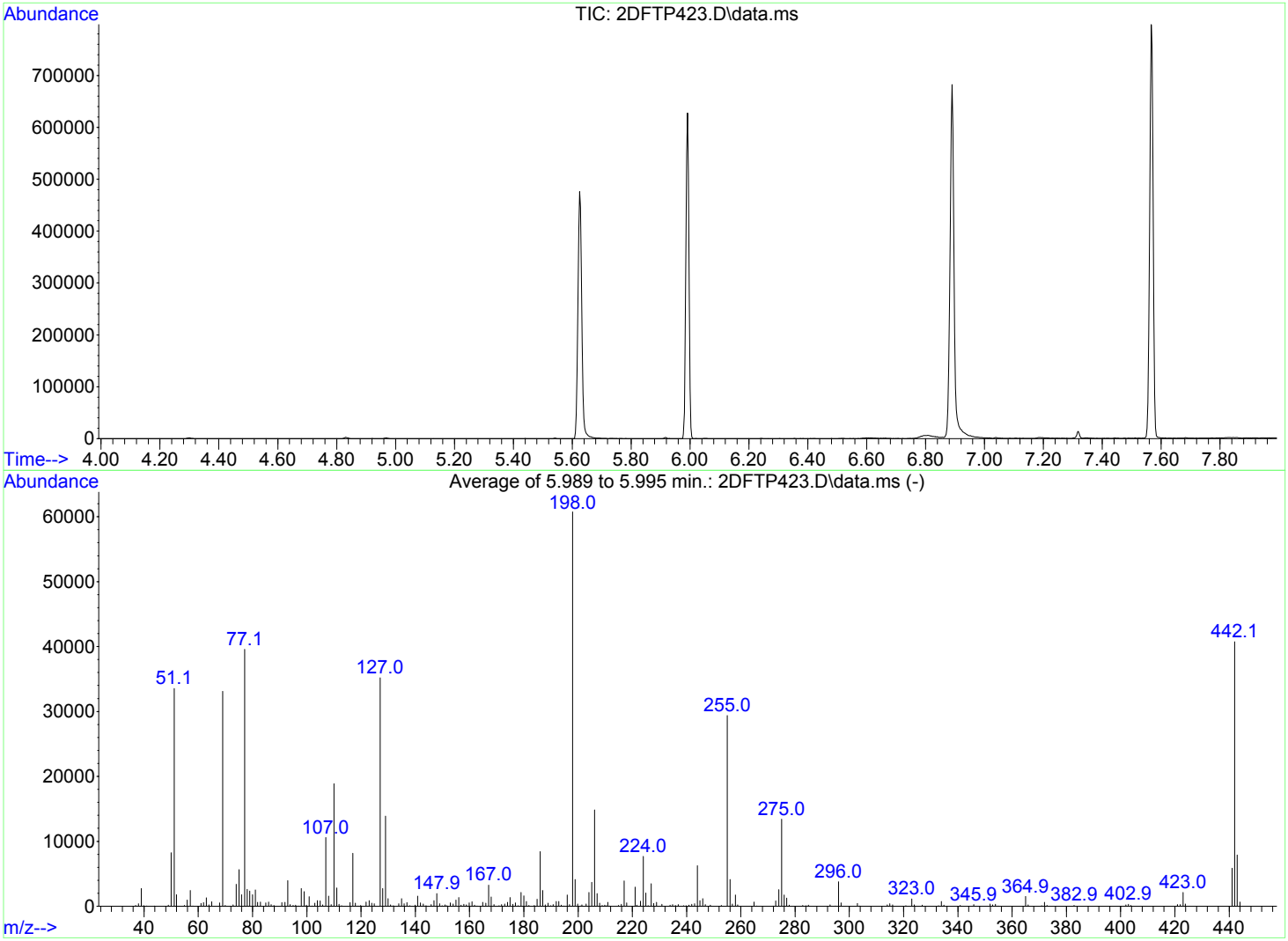
Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



SEMI - VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

Data File : C:\INSTARCH\DATA\2S112019\2DFTP423.D Vial: 1
Acq On : 21 Nov 2019 9:48 Operator: RPN
Sample : DFTPP TUNE SVMS8538 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTPP2.M
Title : DFTPP TUNE
Last Update : Fri Nov 22 10:40:45 2019



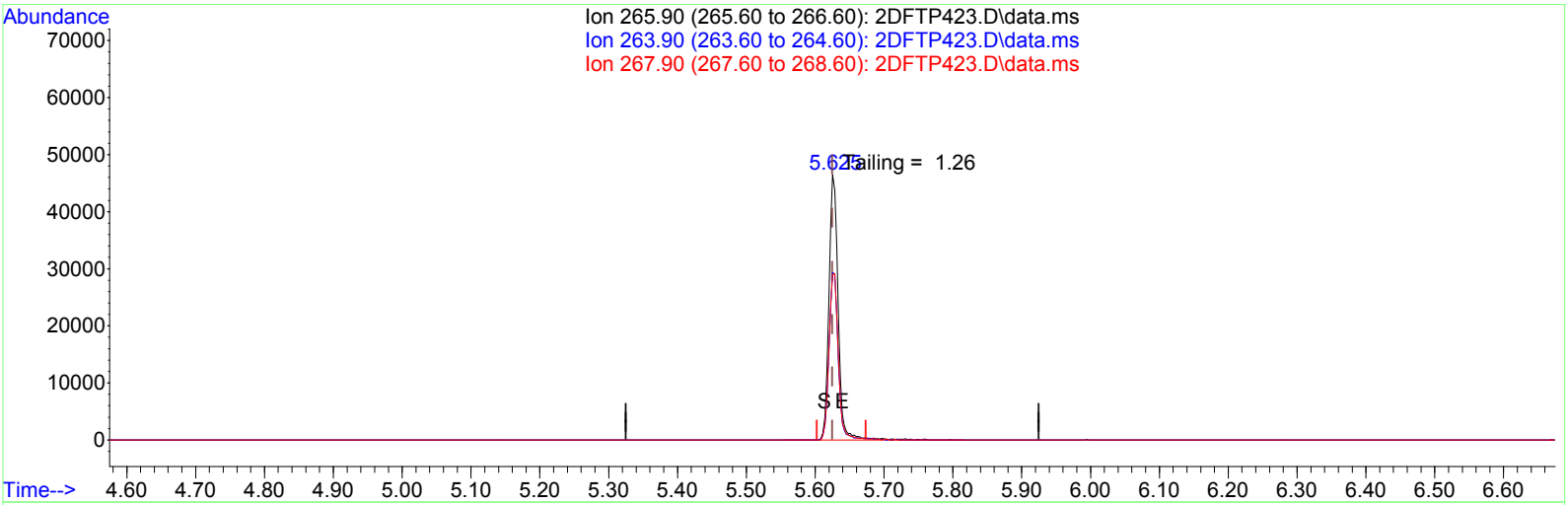
AutoFind: Scans 952, 953, 954; Background Corrected with Scan 944

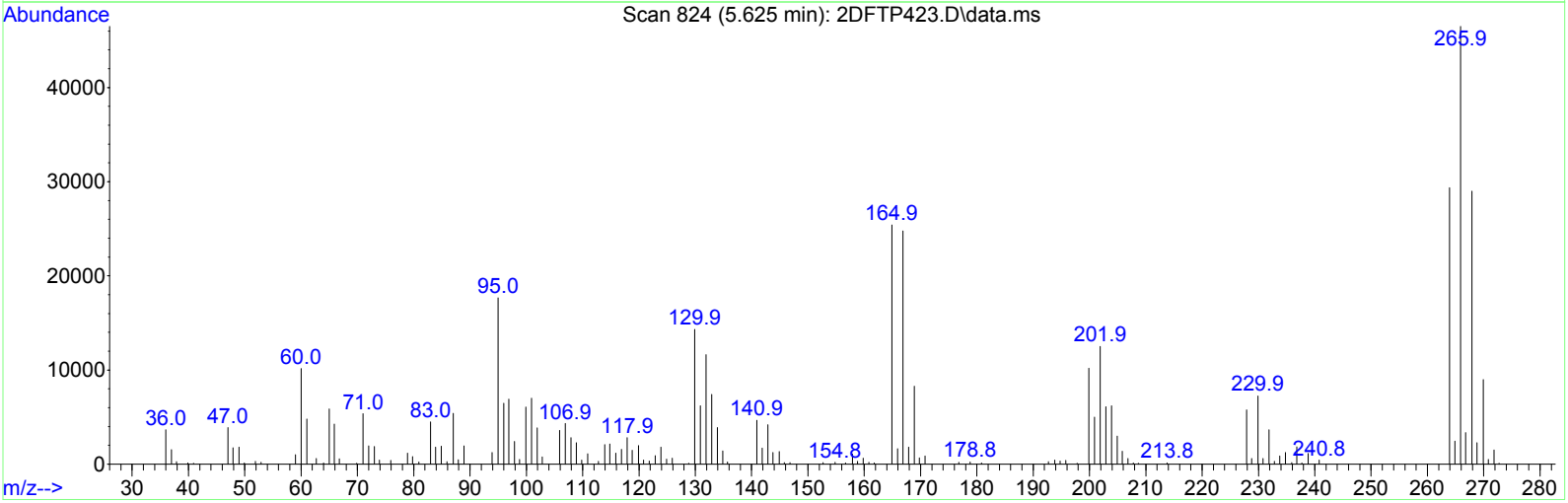
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	55.2	33536	PASS
68	69	0.00	2	1.6	538	PASS
70	69	0.00	2	0.4	138	PASS
127	198	10	80	58.0	35213	PASS
197	198	0.00	2	0.5	279	PASS
198	198	50	100	100.0	60749	PASS
199	198	5	9	6.8	4113	PASS
275	198	10	60	22.0	13393	PASS
365	198	1	100	2.5	1506	PASS
441	442	0.01	24	14.4	5868	PASS
442	198	50	100	67.0	40731	PASS
443	442	15	24	19.4	7895	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112019\2DFTP423.D Vial: 1
Acq On : 21 Nov 2019 9:48 Operator: RPN
Sample : DFTPP TUNE SVMS8538 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 10:42:49 2019

Quant Method : C:\INSTARCH\METHOD\2DFTPP2.M
Quant Title : DFTPP TUNE
QLast Update : Fri Nov 22 10:40:45 2019
Response via : Initial Calibration
DataAcq Meth:2DFTPP2.M





TIC: 2DFTP423.D\data.ms

(1) Pentachlorophenol

5.625min (+ 0.000) 2.46 ng

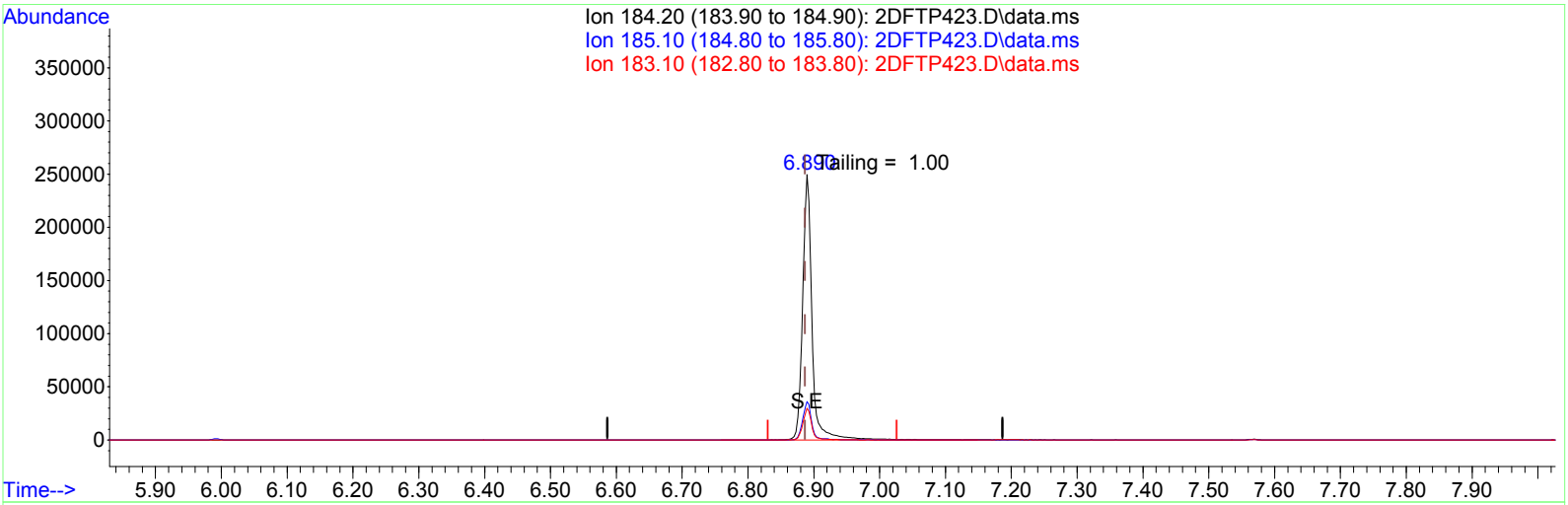
response 42687

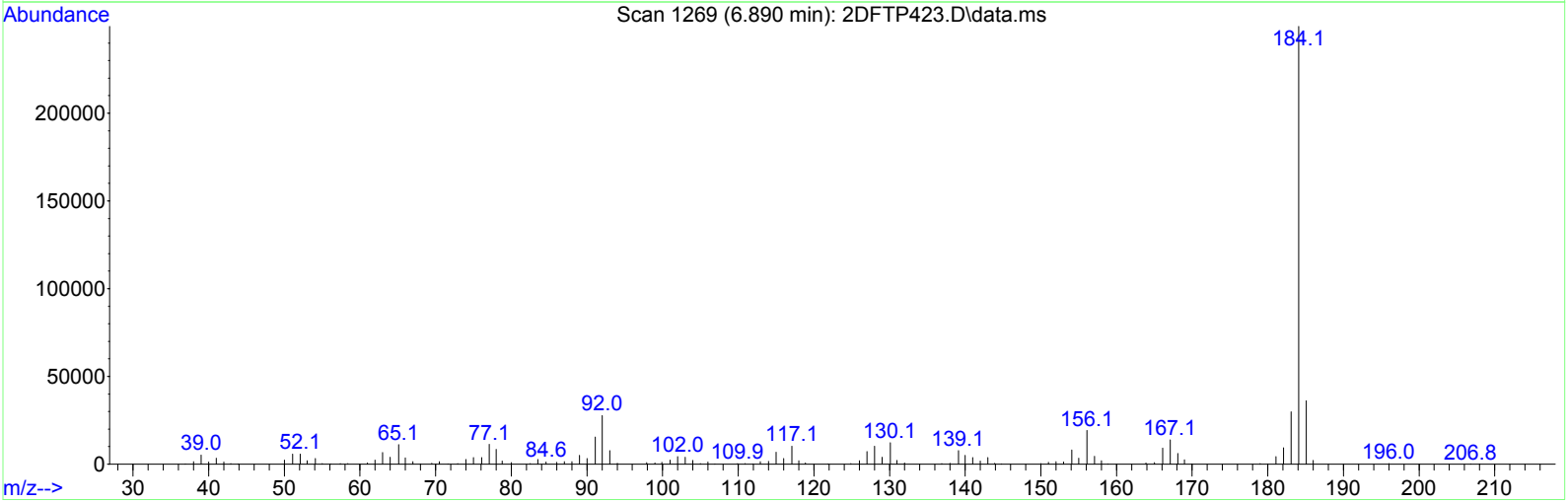
Ion	Exp%	Act%
265.90	100.00	100.00
263.90	63.90	63.53
267.90	64.40	64.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112019\2DFTP423.D Vial: 1
Acq On : 21 Nov 2019 9:48 Operator: RPN
Sample : DFTPP TUNE SVMS8538 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 10:42:49 2019

Quant Method : C:\INSTARCH\METHOD\2DFTPP2.M
Quant Title : DFTPP TUNE
QLast Update : Fri Nov 22 10:40:45 2019
Response via : Initial Calibration
DataAcq Meth:2DFTPP2.M





TIC: 2DFTP423.D\data.ms

(3) Benzidine

6.890min (+ 0.003) 3.80 ng

response 249685

Ion	Exp%	Act%
184.20	100.00	100.00
185.10	15.80	13.97
183.10	11.70	11.30
0.00	0.00	0.00

Data File Name	2DFTP423.D
Vial Number	1
Data File Path	C:\INSTARCH\DATA\2S112019\
Operator	RPN
Date Acquired	11/21/2019 9:48
Instrument Name	SVMS2
Sample Name	DFTPP TUNE SVMS8538
Sample Multiplier	1
Misc Info	SVMS2, 50ng DFTPP
Calibration Title	DFTPP TUNE
Last Calibration Update	Fri Nov 22 10:40:45 2019

#	Name	Ret Time	Target Response
1)	Pentachlorophenol	5.63	42687
2)	DFTPP	5.99	49827
3)	Benzidine	6.89	249685
4)	DDE	7.04	189
5)	DDD	7.32	1931
6)	DDT	7.57	108232

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \quad 1.92\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	20.000	20.000	0.0	164	-0.01
2	CT	Ntrsdimeth	20.000	20.938	-4.7	166	0.04
3	CT	Pyridine	20.000	20.420	-2.1	161	0.04
4	S	SURR2Flphenol	50.000	55.406	-10.8	170	0.00
5	CT	Aniline	20.000	21.990	-9.9	172	-0.01
6	CPT	bis2Clethletr	20.000	20.895	-4.5	158	0.00
7	S	SURRPhenol-d5	50.000	53.202	-6.4	162	-0.01
8	CPT	Phenol	20.000	21.305	-6.5	163	-0.02
9	CPT	2-Cl-phenol	20.000	21.627	-8.1	163	-0.01
10	CT	13Diclbenz	20.000	21.047	-5.2	164	-0.01
11	CT	14Diclbenz	20.000	20.835	-4.2	161	-0.01
12	CT	12Diclbenz	20.000	20.994	-5.0	161	-0.01
13	CT	Benzyl alcoho	20.000	21.107	-5.5	166	0.00
14	CPT	bis2clispreth	20.000	21.086	-5.4	161	-0.01
15	CPT	2Methylphenol	20.000	21.072	-5.4	156	-0.01
16	CT	Ntrspyrrol	20.000	20.268	-1.3	160	0.00
17	CPT	Acetophenone	20.000	20.743	-3.7	159	0.00
18	CPT	Hexaclethane	20.000	20.997	-5.0	161	0.00
19	CPT	N-Ntrsdinprop	20.000	20.959	-4.8	158	0.00
20	CPT	3&4Methylphenol	20.000	21.097	-5.5	157	-0.01
21	I	Naphthalened8	20.000	20.000	0.0	153	0.00
22	S	SURRNitrbenzened5	100.000	109.834	-9.8	159	0.00
23	CPT	Nitrobenzene	20.000	21.924	-9.6	159	0.00
24	CPT	Isophorone	20.000	21.935	-9.7	159	0.00
25	CPT	2-Nitrophenol	20.000	22.503	-12.5	157	0.00
26	CPT	24Dimthpheno	20.000	21.278	-6.4	156	0.00
27	CPT	bis2clethoxym	20.000	21.530	-7.7	157	0.00
28	CPT	24Diclphenol	20.000	21.876	-9.4	153	0.00
29	CT	124Triclbenz	20.000	21.575	-7.9	158	0.00
30	CT	Benzoic acid	20.000	22.219	-11.1	184	0.00
31	CPT	Naphthalene	20.000	20.970	-4.8	153	0.00
32	CPT	4-Cl-aniline	20.000	20.698	-3.5	153	0.00
33	CT	26Diclphenol	20.000	21.384	-6.9	150	0.00
34	CT	Hexaclprop	20.000	21.937	-9.7	156	0.00
35	CPT	Hexaclbutdien	20.000	21.480	-7.4	157	0.00
36	CPT	4Cl3methylphe	20.000	22.190	-11.0	159	0.00
37	CPT	2Methylnaphth	20.000	21.140	-5.7	153	0.00
38	CT	1Methylnaphth	20.000	20.798	-4.0	151	0.00
39	I	Acenaphthened10	20.000	20.000	0.0	148	0.00
40	CPT	Hxclcycpentdi	20.000	21.548	-7.7	151	0.00
41	CPT	1245Tetrclbenz	20.000	21.692	-8.5	151	0.00
42	CPT	246Triclpheno	20.000	22.065	-10.3	159	0.00
43	CPT	245Triclpheno	20.000	22.959	-14.8	149	0.00
44	S	SURR2Flbiphenyl	100.000	108.738	-8.7	153	0.00
45	CPT	2Clnaphthalen	20.000	21.717	-8.6	152	0.00
46	CPT	2Nitroaniline	20.000	22.230	-11.2	160	0.00
47	CPT	Acnaphthylene	20.000	21.462	-7.3	148	0.00
48	CPT	Dimethylphtha	20.000	19.827	0.9	132	0.00
49	CPT	26Dinitrotolu	20.000	20.021	-0.1	129	0.00
50	CPT	Acenaphthene	20.000	21.567	-7.8	150	0.00
51	CPT	3Nitroaniline	20.000	17.778	11.1	125	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	CPT	24Dinitphenol	20.000	19.418	2.9	145	0.00
53	CPT	Dibenzofuran	20.000	21.768	-8.8	149	0.00
54	CPT	24Dinitrotolu	20.000	20.768	-3.8	133	0.00
55	CPT	4-Nitrophenol	20.000	17.566	12.2	117	0.00
56	CT	2,3,5,6-Tetrachlorop	20.000	22.772	-13.9	172	0.00
57	CPT	2,3,4,6-Tetrachlorop	20.000	21.183	-5.9	135	0.00
58	CPT	Fluorene	20.000	21.613	-8.1	148	0.00
59	CPT	4Clphlphlethr	20.000	20.804	-4.0	148	0.00
60	CPT	Diethylphthal	20.000	19.709	1.5	133	0.00
61	CPT	4Nitroaniline	20.000	20.919	-4.6	135	0.00
62	S	SURR246Tribrphenl	50.000	47.959	4.1	121	0.00
63	I	Phenanthrd10	20.000	20.000	0.0	130	0.00
64	CPT	46Dinit2mylph	20.000	21.134	-5.7	127	0.00
65	CPT	Ntrsdiphlam&Diphlam	40.000	42.310	-5.8	121	0.00
66	CT	Azobenz&12Diphlhyd	40.000	42.081	-5.2	121	0.00
67	CPT	4Brphlphlethr	20.000	21.658	-8.3	126	0.00
68	CPT	Hexaclbenzene	20.000	21.469	-7.3	132	0.00
69	CPT	Pentaclphenol	20.000	22.936	-14.7	157	0.00
70	CPT	Phenanthrene	20.000	20.860	-4.3	132	0.00
71	CPT	Anthracene	20.000	21.819	-9.1	131	0.00
72	CPT	Carbazole	20.000	20.976	-4.9	138	0.00
73	CPT	Dinbtylphthal	20.000	21.883	-9.4	134	0.00
74	CPT	Fluoranthene	20.000	21.292	-6.5	130	0.00
75	I	Chrysene-d12	20.000	20.000	0.0	118	0.00
76	CT	Benzidine	20.000	21.413	-7.1	121	0.00
77	CPT	Pyrene	20.000	22.140	-10.7	129	0.00
78	S	SURRTerphenyl-d14	100.000	110.478	-10.5	127	0.00
79	CPT	Btylbzylphth	20.000	23.069	-15.3	125	0.00
80	CT	bis2Ethlhxlad	20.000	23.529	-17.6	131	0.00
81	CPT	33Diclbnzidin	20.000	17.279	13.6	98	0.00
82	CPT	B[a]anthracen	20.000	21.446	-7.2	121	0.00
83	CPT	Chrysene	20.000	21.765	-8.8	123	0.00
84	CPT	bis2Ethlhxlph	20.000	23.024	-15.1	125	0.00
85	CPT	Dinoctylphthl	20.000	21.882	-9.4	125	0.00
86	I	Perylene-d12	20.000	20.000	0.0	118	0.00
87	CPT	B[b]fluoranth	20.000	21.240	-6.2	119	0.00
88	CPT	B[k]fluoranth	20.000	21.450	-7.2	123	0.00
89	CPT	Benz[a]pyrene	20.000	21.497	-7.5	119	0.00
90	CPT	Indeno-pyrene	20.000	23.559	-17.8	123	0.00
91	CPT	Dib[ah]anthr	20.000	23.323	-16.6	122	0.00
92	CPT	B[ghi]perylen	20.000	23.959	-19.8	125	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	164#	-0.01
2	CT	Ntrsdimeth	1.115	1.204	-8.0	166#	0.04
3	CT	Pyridine	1.623	1.730	-6.6	161#	0.04
4	S	SURR2Flphenol	0.570	0.632	-10.9	170#	0.00
5	CT	Aniline	2.266	2.492	-10.0	172#	-0.01
6	CPT	bis2Clethletr	1.696	1.772	-4.5	158#	0.00
7	S	SURRPhenol-d5	0.733	0.780	-6.4	162#	-0.01
8	CPT	Phenol	1.897	2.021	-6.5	163#	-0.02
9	CPT	2-Cl-phenol	1.448	1.566	-8.1	163#	-0.01
10	CT	13Diclbenz	1.570	1.652	-5.2	164#	-0.01
11	CT	14Diclbenz	1.565	1.630	-4.2	161#	-0.01
12	CT	12Diclbenz	1.420	1.491	-5.0	161#	-0.01
13	CT	Benzyl alcoho	0.852	0.984	-15.5	166#	0.00
14	CPT	bis2clispreth	2.361	2.489	-5.4	161#	-0.01
15	CPT	2Methylphenol	1.103	1.162	-5.3	156#	-0.01
16	CT	Ntrspyrrol	0.700	0.758	-8.3	160#	0.00
17	CPT	Acetophenone	1.875	1.944	-3.7	159#	0.00
18	CPT	Hexaclethane	0.586	0.615	-4.9	161#	0.00
19	CPT	N-Ntrsdinprop	1.167	1.223	-4.8	158#	0.00
20	CPT	3&4Methylphenol	1.345	1.419	-5.5	157#	-0.01
21	I	Naphthalened8	1.000	1.000	0.0	153#	0.00
22	S	SURRNitrbenzened5	0.088	0.096	-9.1	159#	0.00
23	CPT	Nitrobenzene	0.459	0.503	-9.6	159#	0.00
24	CPT	Isophorone	0.809	0.888	-9.8	159#	0.00
25	CPT	2-Nitrophenol	0.196	0.220	-12.2	157#	0.00
26	CPT	24Dimthpheno	0.319	0.339	-6.3	156#	0.00
27	CPT	bis2clethoxym	0.463	0.498	-7.6	157#	0.00
28	CPT	24Diclphenol	0.268	0.294	-9.7	153#	0.00
29	CT	124Triclbenz	0.294	0.317	-7.8	158#	0.00
30	CT	Benzoic acid	0.171	0.208	-21.6#	184#	0.00
31	CPT	Naphthalene	1.059	1.111	-4.9	153#	0.00
32	CPT	4-Cl-aniline	0.363	0.376	-3.6	153#	0.00
33	CT	26Diclphenol	0.201	0.215	-7.0	150#	0.00
34	CT	Hexaclprop	0.175	0.192	-9.7	156#	0.00
35	CPT	Hexaclbutdien	0.140	0.151	-7.9	157#	0.00
36	CPT	4Cl3methylphe	0.315	0.349	-10.8	159#	0.00
37	CPT	2Methylnaphth	0.718	0.759	-5.7	153#	0.00
38	CT	1Methylnaphth	0.590	0.614	-4.1	151#	0.00
39	I	Acenaphthened10	1.000	1.000	0.0	148	0.00
40	CPT	Hxclcycpentdi	0.281	0.324	-15.3	151#	0.00
41	CPT	1245Tetrclbenz	0.521	0.565	-8.4	151#	0.00
42	CPT	246Triclpheno	0.356	0.410	-15.2	159#	0.00
43	CPT	245Triclpheno	0.360	0.413	-14.7	149	0.00
44	S	SURR2Flbiphenyl	0.273	0.297	-8.8	153#	0.00
45	CPT	2Clnaphthalen	1.185	1.286	-8.5	152#	0.00
46	CPT	2Nitroaniline	0.476	0.563	-18.3	160#	0.00
47	CPT	Acnaphthylene	1.893	2.032	-7.3	148	0.00
48	CPT	Dimethylphtha	1.238	1.227	0.9	132	0.00
49	CPT	26Dinitrotolu	0.299	0.299	0.0	129	0.00
50	CPT	Acenaphthene	1.256	1.354	-7.8	150	0.00
51	CPT	3Nitroaniline	0.313	0.278	11.2	125	0.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	CPT	24Dinitphenol	0.149	0.164	-10.1	145	0.00
53	CPT	Dibenzofuran	1.620	1.763	-8.8	149	0.00
54	CPT	24Dinitrotolu	0.381	0.396	-3.9	133	0.00
55	CPT	4-Nitrophenol	0.339	0.298	12.1	117	0.00
56	CT	2,3,5,6-Tetrachlorop	0.285	0.342	-20.0#	172#	0.00
57	CPT	2,3,4,6-Tetrachlorop	0.260	0.276	-6.2	135	0.00
58	CPT	Fluorene	1.332	1.439	-8.0	148	0.00
59	CPT	4Clphlphlethr	0.614	0.638	-3.9	148	0.00
60	CPT	Diethylphthal	1.303	1.284	1.5	133	0.00
61	CPT	4Nitroaniline	0.324	0.339	-4.6	135	0.00
62	S	SURR246Tribrphenl	0.047	0.045	4.3	121	0.00
63	I	Phenanthrd10	1.000	1.000	0.0	130	0.00
64	CPT	46Dinit2mylph	0.163	0.176	-8.0	127	0.00
65	CPT	Ntrsdiphlam&Diphlam	0.599	0.634	-5.8	121	0.00
66	CT	Azobenz&12Diphlhyd	0.263	0.276	-4.9	121	0.00
67	CPT	4Brphlphlethr	0.201	0.217	-8.0	126	0.00
68	CPT	Hexaclbenzene	0.200	0.214	-7.0	132	0.00
69	CPT	Pentaclphenol	0.108	0.140	-29.6#	157#	0.00
70	CPT	Phenanthrene	1.233	1.286	-4.3	132	0.00
71	CPT	Anthracene	1.152	1.257	-9.1	131	0.00
72	CPT	Carbazole	0.897	0.941	-4.9	138	0.00
73	CPT	Dinbtylphthal	1.358	1.486	-9.4	134	0.00
74	CPT	Fluoranthene	1.230	1.310	-6.5	130	0.00
75	I	Chrysene-d12	1.000	1.000	0.0	118	0.00
76	CT	Benzidine	0.423	0.428	-1.2	121	0.00
77	CPT	Pyrene	1.500	1.661	-10.7	129	0.00
78	S	SURRTerphenyl-d14	0.185	0.204	-10.3	127	0.00
79	CPT	Btylbzylphth	1.038	1.197	-15.3	125	0.00
80	CT	bis2Ethlhxlad	0.669	0.787	-17.6	131	0.00
81	CPT	33Diclbnzidin	0.365	0.316	13.4	98	0.00
82	CPT	B[a]anthracen	1.316	1.411	-7.2	121	0.00
83	CPT	Chrysene	1.287	1.401	-8.9	123	0.00
84	CPT	bis2Ethlhxlph	1.025	1.180	-15.1	125	0.00
85	CPT	Dinoctylphthl	1.793	2.120	-18.2	125	0.00
86	I	Perylene-d12	1.000	1.000	0.0	118	0.00
87	CPT	B[b]fluoranth	1.105	1.174	-6.2	119	0.00
88	CPT	B[k]fluoranth	1.086	1.164	-7.2	123	0.00
89	CPT	Benz[a]pyrene	1.059	1.139	-7.6	119	0.00
90	CPT	Indeno-pyrene	1.203	1.417	-17.8	123	0.00
91	CPT	Dib[ah]anthr	0.964	1.125	-16.7	122	0.00
92	CPT	B[ghi]perylen	1.050	1.258	-19.8	125	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 3

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.090	152	44889	20.00	ug/mL	-0.01
21) Naphthalened8	6.414	136	153971	20.00	ug/mL	0.00
39) Acenaphthened10	7.761	164	75159	20.00	ug/mL	0.00
63) Phenanthrd10	8.593	188	89420	20.00	ug/mL	0.00
75) Chrysene-d12	10.071	240	72950	20.00	ug/mL	0.00
86) Perylene-d12	11.125	264	90733	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.740	112	70897	55.41	%REC	0.00
Spiked Amount 100.000			Recovery = 55.41%			
7) SURRPhenol-d5	4.632	99	87528	53.20	%REC	-0.01
Spiked Amount 100.000			Recovery = 53.20%			
22) SURRNitrbenzened5	5.712	82	73993	109.83	%REC	0.00
Spiked Amount 100.000			Recovery = 109.83%			
44) SURR2Flbiphenyl	7.292	172	111497	108.74	%REC	0.00
Spiked Amount 100.000			Recovery = 108.74%			
62) SURR246Tribrphenl	8.258	330	8529	47.96	%REC	0.00
Spiked Amount 100.000			Recovery = 47.96%			
78) SURRTerphenyl-d14	9.397	244	74517	110.48	%REC	0.00
Spiked Amount 100.000			Recovery = 110.48%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.845	74	54039	20.9381	ug/mL	98
3) Pyridine	2.879	79	77667	20.4200	ug/mL	95
5) Aniline	4.695	93	111846	21.9897	ug/mL	99
6) bis2Clethletr	4.757	93	79533	20.8950	ug/mL	98
8) Phenol	4.646	94	90703	21.3048	ug/mL	97
9) 2-Cl-phenol	4.840	128	70312	21.6273	ug/mL	98
10) 13Diclbenz	5.021	146	74155	21.0468	ug/mL	97
11) 14Diclbenz	5.112	146	73166	20.8351	ug/mL	98
12) 12Diclbenz	5.294	146	66926	20.9935	ug/mL	98
13) Benzyl alcoho	5.254	108	44155	21.1071	ug/mL	99
14) bis2clispreth	5.405	45	111720	21.0858	ug/mL	98
15) 2Methylphenol	5.380	107	52168	21.0721	ug/mL	98
16) Ntrspyrrol	5.530	100	34036	20.2682	ug/mL	82
17) Acetophenone	5.553	105	87271	20.7428	ug/mL	97
18) Hexaclethane	5.666	117	27601	20.9975	ug/mL	97
19) N-Ntrsdinprop	5.553	70	54891	20.9588	ug/mL	98
20) 3&4Methylphenol	5.550	107	63689	21.0965	ug/mL	92
23) Nitrobenzene	5.732	77	77518	21.9235	ug/mL	99
24) Isophorone	5.979	82	136652	21.9354	ug/mL	99
25) 2-Nitrophenol	6.053	139	33932	22.5027	ug/mL	99
26) 24Dimthpheno	6.101	122	52273	21.2785	ug/mL	96
27) bis2clethoxym	6.192	93	76733	21.5300	ug/mL	97
28) 24Diclphenol	6.289	162	45203	21.8757	ug/mL	98
29) 124Triclbenz	6.363	180	48799	21.5753	ug/mL	97
30) Benzoic acid	6.201	122	32017	22.2188	ug/mL	99
31) Naphthalene	6.431	128	170991	20.9704	ug/mL	100
32) 4-Cl-aniline	6.488	127	57871	20.6978	ug/mL	98
33) 26Diclphenol	6.490	162	33111	21.3842	ug/mL	96
34) Hexaclprop	6.510	213	29596	21.9374	ug/mL	99
35) Hexaclbutdien	6.545	225	23189	21.4798	ug/mL	98
36) 4Cl3methylphe	6.905	107	53776	22.1897	ug/mL	95
37) 2Methylnaphth	7.016	142	116836	21.1400	ug/mL	99
38) 1Methylnaphth	7.090	141	94531	20.7985	ug/mL	97
40) Hxclcycpentdi	7.136	237	24323	21.5479	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

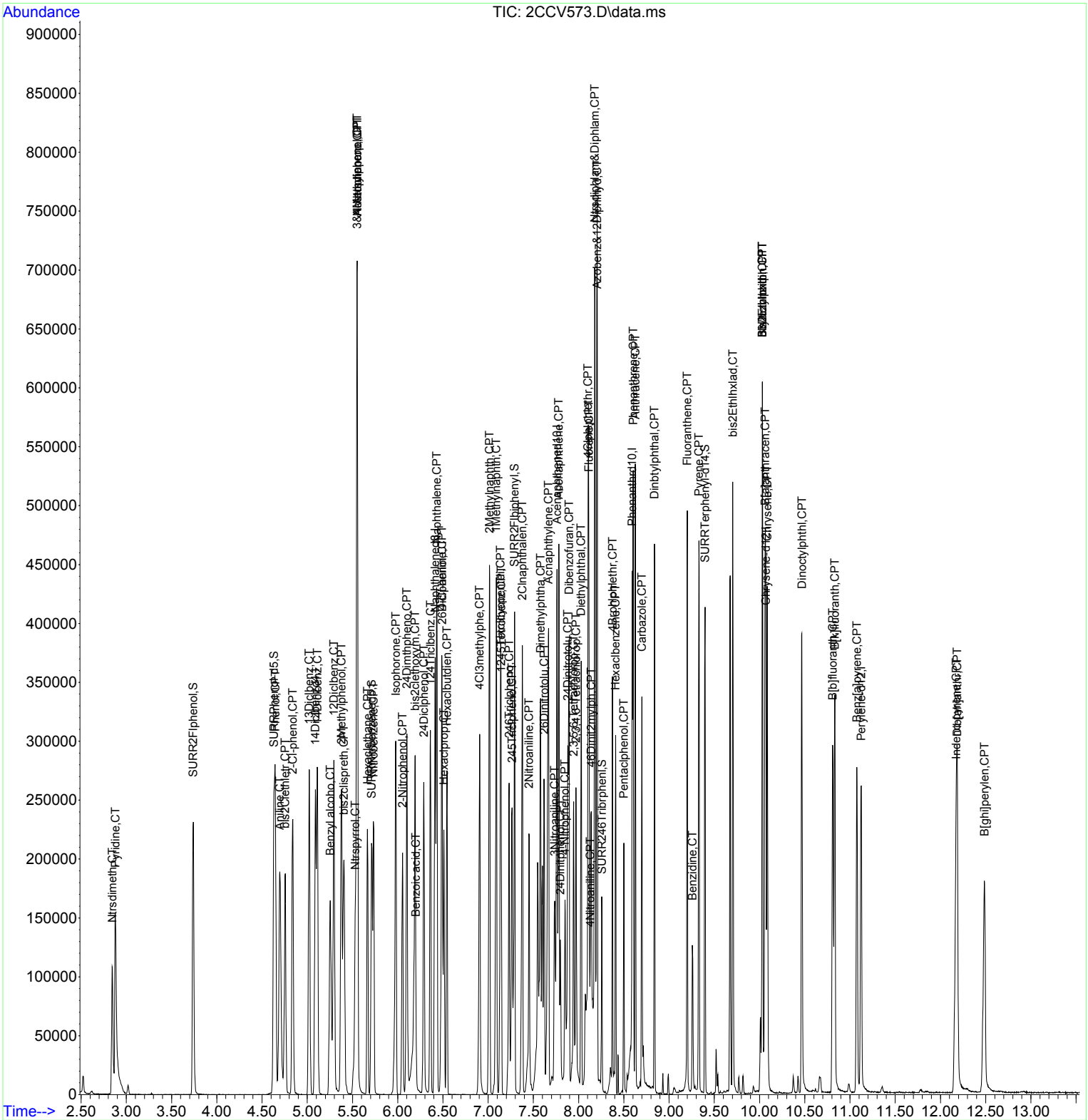
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.144	216	42498	21.6921 ug/mL	99
42) 246Triclpheno	7.232	196	30793	22.0647 ug/mL	98
43) 245Triclpheno	7.263	196	31019	22.9591 ug/mL	97
45) 2Clnaphthalen	7.377	162	96675	21.7165 ug/mL	98
46) 2Nitroaniline	7.451	65	42298	22.2299 ug/mL	98
47) Acnaphthylene	7.667	152	152694	21.4618 ug/mL	99
48) Dimethylphtha	7.579	163	92232	19.8274 ug/mL	99
49) 26Dinitrotolu	7.619	165	22500	20.0209 ug/mL	88
50) Acenaphthene	7.781	154	101759	21.5672 ug/mL	99
51) 3Nitroaniline	7.735	138	20909	17.7784 ug/mL	96
52) 24Dinitphenol	7.798	184	12321	19.4177 ug/mL	87
53) Dibenzofuran	7.894	168	132512	21.7678 ug/mL	99
54) 24Dinitrotolu	7.880	165	29748	20.7679 ug/mL	90
55) 4-Nitrophenol	7.849	65	22401	17.5658 ug/mL	94
56) 2,3,5,6-Tetrachlorop	7.945	232	25726	22.7721 ug/mL	97
57) 2,3,4,6-Tetrachlorop	7.971	232	20712	21.1828 ug/mL	95
58) Fluorene	8.113	166	108156	21.6131 ug/mL	98
59) 4Clphlphlethr	8.104	204	47971	20.8036 ug/mL	96
60) Diethylphthal	8.028	149	96512	19.7091 ug/mL	98
61) 4Nitroaniline	8.127	138	25494	20.9195 ug/mL	99
64) 46Dinit2mylph	8.139	198	15772	21.1340 ug/mL#	51
65) Ntrsdiphlam&Diphlam	8.178	169	113340	42.3102 ug/mL	99
66) Azobenz&12Diphlhyd	8.204	182	49435	42.0808 ug/mL	96
67) 4Brphlphlethr	8.374	248	19423	21.6576 ug/mL	94
68) Hexaclbenzene	8.408	284	19174	21.4687 ug/mL	93
69) Pentaclphenol	8.499	266	12488	22.9363 ug/mL	95
70) Phenanthrene	8.605	178	115019	20.8598 ug/mL	99
71) Anthracene	8.627	178	112409	21.8192 ug/mL	99
72) Carbazole	8.698	167	84164	20.9764 ug/mL	99
73) Dinbtylphthal	8.838	149	132906	21.8832 ug/mL	100
74) Fluoranthene	9.201	202	117117	21.2922 ug/mL	99
76) Benzidine	9.258	184	31246	21.4129 ug/mL	99
77) Pyrene	9.329	202	121168	22.1402 ug/mL	99
79) Btylbzylphth	10.031	149	87309	23.0693 ug/mL	97
80) bis2Ethlhxlad	9.704	129	57385	23.5294 ug/mL	99
81) 33Diclbnzidin	10.031	252	23033	17.2789 ug/mL	99
82) B[a]anthracen	10.062	228	102928	21.4459 ug/mL	98
83) Chrysene	10.085	228	102189	21.7650 ug/mL	100
84) bis2Ethlhxlph	10.031	149	86074	23.0239 ug/mL	99
85) Dinoctylphthl	10.469	149	154640	21.8820 ug/mL	98
87) B[b]fluoranth	10.810	252	106520	21.2401 ug/mL	99
88) B[k]fluoranth	10.832	252	105655	21.4500 ug/mL	99
89) Benz[a]pyrene	11.077	252	103304	21.4971 ug/mL	97
90) Indeno-pyrene	12.173	276	128614	23.5591 ug/mL	98
91) Dib[ah]anthr	12.188	278	102050	23.3230 ug/mL	99
92) B[ghi]perylen	12.486	276	114111	23.9589 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Ending CCV %Recovery Report

Data File Name	2CCV574.D
Data File Path	C:\INSTARCH\DATA\2S112019\
Operator	RPN
Date Acquired	11/21/2019 14:44
Acq. Method File	2S111919.M
Sample Name	CCV 20ug/mL SVMS8535
Misc Info	500ul+5ul IS S4170B
Vial Number	2
Instrument Name	SVMS2
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	50-150 %REC
1	14Diclbenzd4	5.09	20.00	ug/mL	33663	ISTD
2	Ntrsdimeth	2.83	20.55	ug/mL	39714	103
3	Pyridine	2.86	20.05	ug/mL	57134	100
4	SURR2Flphenol	3.74	53.55	%REC	51389	107
5	Aniline	4.70	22.00	ug/mL	83924	110
6	bis2Clethletr	4.76	20.87	ug/mL	59586	104
7	SURRPhenol-d5	4.63	53.65	%REC	66186	107
8	Phenol	4.65	21.28	ug/mL	67951	106
9	2-Cl-phenol	4.84	21.61	ug/mL	52695	108
10	13Diclbenz	5.02	21.26	ug/mL	56170	106
11	14Diclbenz	5.11	20.92	ug/mL	55100	105
12	12Diclbenz	5.30	20.99	ug/mL	50178	105
13	Benzyl alcoho	5.25	20.68	ug/mL	32395	103
14	bis2clispreth	5.41	21.27	ug/mL	84501	106
15	2Methylphenol	5.38	21.17	ug/mL	39310	106
16	Ntrspyrrol	5.53	20.74	ug/mL	26134	104
17	Acetophenone	5.55	21.16	ug/mL	66771	106
18	Hexaclethane	5.66	21.01	ug/mL	20715	105
19	N-Ntrsdinprop	5.55	21.60	ug/mL	42418	108
20	3&4Methylphenol	5.55	21.60	ug/mL	48897	108
21	Naphthalened8	6.41	20.00	ug/mL	117722	ISTD
22	SURRNitrbenzened5	5.71	109.36	%REC	56328	109
23	Nitrobenzene	5.73	21.92	ug/mL	59257	110
24	Isophorone	5.97	22.10	ug/mL	105244	110
25	2-Nitrophenol	6.05	22.19	ug/mL	25583	111
26	24Dimthpheno	6.10	21.06	ug/mL	39562	105
27	bis2clethoxym	6.19	21.62	ug/mL	58914	108
28	24Diclphenol	6.28	22.04	ug/mL	34819	110
29	124Triclbenz	6.36	21.56	ug/mL	33663	108
30	Benzoic acid	6.19	21.12	ug/mL	37286	106
31	Naphthalene	6.43	21.43	ug/mL	133577	107
32	4-Cl-aniline	6.48	22.81	ug/mL	48769	114
33	26Diclphenol	6.48	22.00	ug/mL	26046	110
34	Hexaclprop	6.50	21.93	ug/mL	22622	110
35	Hexaclbutdien	6.54	21.73	ug/mL	17940	109
36	4Cl3methylphe	6.90	22.30	ug/mL	41319	111
37	2Methylnaphth	7.01	21.45	ug/mL	90631	107

38	1Methylnaphth	7.08	21.33	ug/mL	74118	107
39	Acenaphthened10	7.75	20.00	ug/mL	33663	ISTD
40	Hxclcycpentdi	7.13	21.08	ug/mL	59707	105
41	1245Tetrclbenz	7.14	21.25	ug/mL	33073	106
42	246Triclpheno	7.22	20.73	ug/mL	22857	104
43	245Triclpheno	7.25	23.27	ug/mL	24977	116
44	SURR2Flbiphenyl	7.28	107.49	%REC	87560	107
45	2Clnaphthalen	7.37	21.35	ug/mL	75510	107
46	2Nitroaniline	7.45	21.63	ug/mL	32637	108
47	Acnaphthylene	7.66	21.45	ug/mL	33663	107
48	Dimethylphtha	7.57	20.14	ug/mL	121225	101
49	26Dinitrotolu	7.61	20.81	ug/mL	18576	104
50	Acenaphthene	7.77	21.14	ug/mL	79231	106
51	3Nitroaniline	7.72	19.49	ug/mL	18210	97
52	24Dinitphenol	7.79	16.30	ug/mL	7817	82
53	Dibenzofuran	7.89	21.69	ug/mL	104875	108
54	24Dinitrotolu	7.87	20.90	ug/mL	33663	105
55	4-Nitrophenol	7.84	20.49	ug/mL	23784	102
56	2,3,5,6-Tetrachlorop	7.94	21.66	ug/mL	19360	108
57	2,3,4,6-Tetrachlorop	7.96	21.14	ug/mL	16417	106
58	Fluorene	8.10	21.86	ug/mL	86921	109
59	4Clphlphlethr	8.10	20.83	ug/mL	38161	104
60	Diethylphthal	8.02	20.08	ug/mL	78113	100
61	4Nitroaniline	8.12	20.51	ug/mL	19853	103
62	SURR246Tribrphenl	8.25	54.75	%REC	7735	110
63	Phenanthrd10	8.58	20.00	ug/mL	73725	ISTD
64	46Dinit2mylph	8.13	19.48	ug/mL	11887	97
65	Ntrsdiphlam&Diphlam	8.17	42.44	ug/mL	93726	106
66	Azobenz&12Diphlhyd	8.20	42.50	ug/mL	41160	106
67	4Brphlphlethr	8.37	21.73	ug/mL	16071	109
68	Hexaclbenzene	8.40	21.27	ug/mL	15665	106
69	Pentaclphenol	8.49	20.83	ug/mL	9212	104
70	Phenanthrene	8.60	20.87	ug/mL	94882	104
71	Anthracene	8.62	21.92	ug/mL	93109	110
72	Carbazole	8.69	20.74	ug/mL	68598	104
73	Dinbtylphthal	8.83	21.29	ug/mL	106596	106
74	Fluoranthene	9.19	21.34	ug/mL	96800	107
75	Chrysene-d12	10.06	20.00	ug/mL	63830	ISTD
76	Benzidine	9.25	20.97	ug/mL	26601	105
77	Pyrene	9.32	21.09	ug/mL	100973	105
78	SURRTerphenyl-d14	9.39	104.29	%REC	61547	104
79	Btylbzylphth	10.03	22.04	ug/mL	72985	110
80	bis2Ethlhxlad	9.70	21.85	ug/mL	46637	109
81	33Diclbnzidin	10.02	19.44	ug/mL	22676	97
82	B[a]anthracen	10.05	21.28	ug/mL	89383	106
83	Chrysene	10.08	20.88	ug/mL	85793	104
84	bis2Ethlhxlph	10.03	21.96	ug/mL	71826	110
85	Dinoctylphthl	10.46	21.34	ug/mL	131891	107
86	Perylene-d12	11.11	20.00	ug/mL	79498	ISTD
87	B[b]fluoranth	10.80	21.31	ug/mL	93626	107

88	B[k]fluoranth	10.82	21.05	ug/mL	90837	105
89	Benz[a]pyrene	11.07	21.32	ug/mL	89746	107
90	Indeno-pyrene	12.16	23.92	ug/mL	114421	120
91	Dib[ah]anthr	12.17	23.88	ug/mL	91549	119
92	B[ghi]perylen	12.47	23.72	ug/mL	98985	119

(#) = recovery out of range Average Percent Recovery = 106

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV574.D Vial: 2
Acq On : 21 Nov 2019 14:44 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 13:27:44 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Nov 27 13:27:31 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.093	152	33663	20.00	ug/mL	0.00
21) Naphthalened8	6.408	136	117722	20.00	ug/mL	0.00
39) Acenaphthened10	7.752	164	59707	20.00	ug/mL	0.00
63) Phenanthrd10	8.585	188	73725	20.00	ug/mL	0.00
75) Chrysene-d12	10.062	240	63830	20.00	ug/mL	0.00
86) Perylene-d12	11.114	264	79498	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.737	112	51389	53.55	%REC	0.00
Spiked Amount 100.000			Recovery = 53.55%			
7) SURRPhenol-d5	4.632	99	66186	53.65	%REC	0.00
Spiked Amount 100.000			Recovery = 53.65%			
22) SURRNitrbenzened5	5.709	82	56328	109.36	%REC	0.00
Spiked Amount 100.000			Recovery = 109.36%			
44) SURR2Flbiphenyl	7.283	172	87560	107.49	%REC	0.00
Spiked Amount 100.000			Recovery = 107.49%			
62) SURR246Tribrphenl	8.249	330	7735	54.75	%REC	0.00
Spiked Amount 100.000			Recovery = 54.75%			
78) SURRTerphenyl-d14	9.392	244	61547	104.29	%REC	0.00
Spiked Amount 100.000			Recovery = 104.29%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.831	74	39714	20.5542	ug/mL	98
3) Pyridine	2.862	79	57134	20.0548	ug/mL	100
5) Aniline	4.698	93	83924	22.0025	ug/mL	99
6) bis2Clethletr	4.757	93	59586	20.8750	ug/mL	98
8) Phenol	4.646	94	67951	21.2832	ug/mL	98
9) 2-Cl-phenol	4.840	128	52695	21.6137	ug/mL	99
10) 13Diclbenz	5.022	146	56170	21.2587	ug/mL	97
11) 14Diclbenz	5.112	146	55100	20.9231	ug/mL	97
12) 12Diclbenz	5.297	146	50178	20.9890	ug/mL	98
13) Benzyl alcoho	5.255	108	32395	20.6791	ug/mL	99
14) bis2clispreth	5.405	45	84501	21.2670	ug/mL	99
15) 2Methylphenol	5.377	107	39310	21.1735	ug/mL	98
16) Ntrspyrrol	5.527	100	26134	20.7426	ug/mL	87
17) Acetophenone	5.550	105	66771	21.1628	ug/mL	96
18) Hexaclethane	5.664	117	20715	21.0143	ug/mL	95
19) N-Ntrsdinprop	5.550	70	42418	21.5974	ug/mL	99
20) 3&4Methylphenol	5.550	107	48897	21.5981	ug/mL	98
23) Nitrobenzene	5.729	77	59257	21.9194	ug/mL	96
24) Isophorone	5.973	82	105244	22.0958	ug/mL	98
25) 2-Nitrophenol	6.050	139	25583	22.1901	ug/mL	96
26) 24Dimthpheno	6.098	122	39562	21.0631	ug/mL	96
27) bis2clethoxym	6.187	93	58914	21.6203	ug/mL	98
28) 24Diclphenol	6.283	162	34819	22.0390	ug/mL	100
29) 124Triclbenz	6.357	180	37286	21.5612	ug/mL	94
30) Benzoic acid	6.189	122	22924	21.1191	ug/mL	95
31) Naphthalene	6.425	128	133577	21.4263	ug/mL	100
32) 4-Cl-aniline	6.479	127	48769	22.8133	ug/mL	94
33) 26Diclphenol	6.485	162	26046	22.0010	ug/mL	98
34) Hexaclprop	6.505	213	22622	21.9313	ug/mL	99
35) Hexaclbutdien	6.539	225	17940	21.7347	ug/mL	97
36) 4Cl3methylphe	6.900	107	41319	22.2994	ug/mL	98
37) 2Methylnaphth	7.008	142	90631	21.4480	ug/mL	100
38) 1Methylnaphth	7.084	141	74118	21.3286	ug/mL	98
40) Hxclcycpentdi	7.127	237	18889	21.0810	ug/mL	99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV574.D Vial: 2
Acq On : 21 Nov 2019 14:44 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 13:27:44 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Nov 27 13:27:31 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

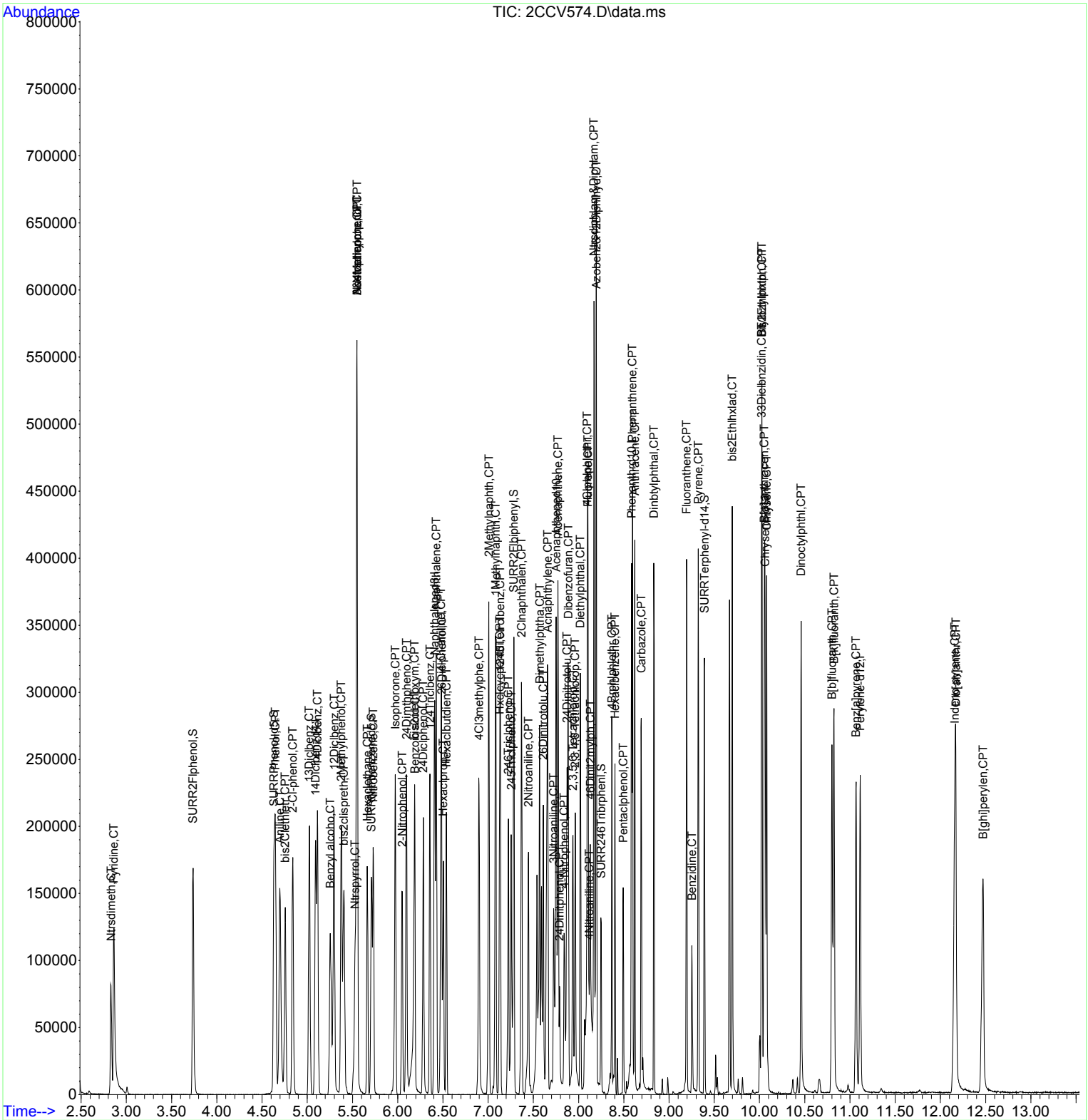
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.136	216	33073	21.2501 ug/mL	98
42) 246Triclpheno	7.224	196	22857	20.7321 ug/mL	95
43) 245Triclpheno	7.255	196	24977	23.2715 ug/mL	97
45) 2Clnaphthalen	7.369	162	75510	21.3519 ug/mL	97
46) 2Nitroaniline	7.445	65	32637	21.6342 ug/mL	99
47) Acnaphthylene	7.658	152	121225	21.4483 ug/mL	99
48) Dimethylphtha	7.570	163	74429	20.1410 ug/mL	99
49) 26Dinitrotolu	7.610	165	18576	20.8070 ug/mL	97
50) Acenaphthene	7.772	154	79231	21.1384 ug/mL	100
51) 3Nitroaniline	7.724	138	18210	19.4906 ug/mL	88
52) 24Dinitphenol	7.789	184	7817	16.3004 ug/mL#	76
53) Dibenzofuran	7.886	168	104875	21.6864 ug/mL	100
54) 24Dinitrotolu	7.872	165	23784	20.9014 ug/mL	94
55) 4-Nitrophenol	7.840	65	20761	20.4930 ug/mL	93
56) 2,3,5,6-Tetrachlorop	7.937	232	19360	21.6646 ug/mL	93
57) 2,3,4,6-Tetrachlorop	7.962	232	16417	21.1354 ug/mL	95
58) Fluorene	8.105	166	86921	21.8649 ug/mL	99
59) 4Clphlphlethr	8.096	204	38161	20.8322 ug/mL	97
60) Diethylphthal	8.019	149	78113	20.0800 ug/mL	99
61) 4Nitroaniline	8.119	138	19853	20.5066 ug/mL	95
64) 46Dinit2mylph	8.130	198	11887	19.4799 ug/mL	90
65) Ntrsdiphlam&Diphlam	8.170	169	93726	42.4367 ug/mL	100
66) Azobenz&12Diphlhyd	8.195	182	41160	42.4956 ug/mL	96
67) 4Brphlphlethr	8.369	248	16071	21.7348 ug/mL	97
68) Hexaclbenzene	8.403	284	15665	21.2737 ug/mL	96
69) Pentaclphenol	8.494	266	9212	20.8314 ug/mL	93
70) Phenanthrene	8.596	178	94882	20.8710 ug/mL	99
71) Anthracene	8.622	178	93109	21.9204 ug/mL	99
72) Carbazole	8.693	167	68598	20.7366 ug/mL	99
73) Dinbtylphthal	8.832	149	106596	21.2876 ug/mL	100
74) Fluoranthene	9.193	202	96800	21.3450 ug/mL	99
76) Benzidine	9.252	184	26601	20.9650 ug/mL	99
77) Pyrene	9.323	202	100973	21.0862 ug/mL	99
79) Btylbzylphth	10.025	149	72985	22.0398 ug/mL	99
80) bis2Ethlhxlad	9.699	129	46637	21.8547 ug/mL	98
81) 33Diclbnzidin	10.022	252	22676	19.4416 ug/mL	99
82) B[a]anthracen	10.054	228	89383	21.2846 ug/mL	100
83) Chrysene	10.079	228	85793	20.8837 ug/mL	99
84) bis2Ethlhxlph	10.025	149	71826	21.9578 ug/mL	100
85) Dinoctylphthl	10.460	149	131891	21.3447 ug/mL	99
87) B[b]fluoranth	10.801	252	93626	21.3074 ug/mL	100
88) B[k]fluoranth	10.824	252	90837	21.0479 ug/mL	99
89) Benz[a]pyrene	11.068	252	89746	21.3151 ug/mL	99
90) Indeno-pyrene	12.159	276	114421	23.9214 ug/mL	96
91) Dib[ah]anthr	12.171	278	91549	23.8800 ug/mL	98
92) B[ghi]perylen	12.472	276	98985	23.7202 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV574.D Vial: 2
Acq On : 21 Nov 2019 14:44 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 13:27:44 2019

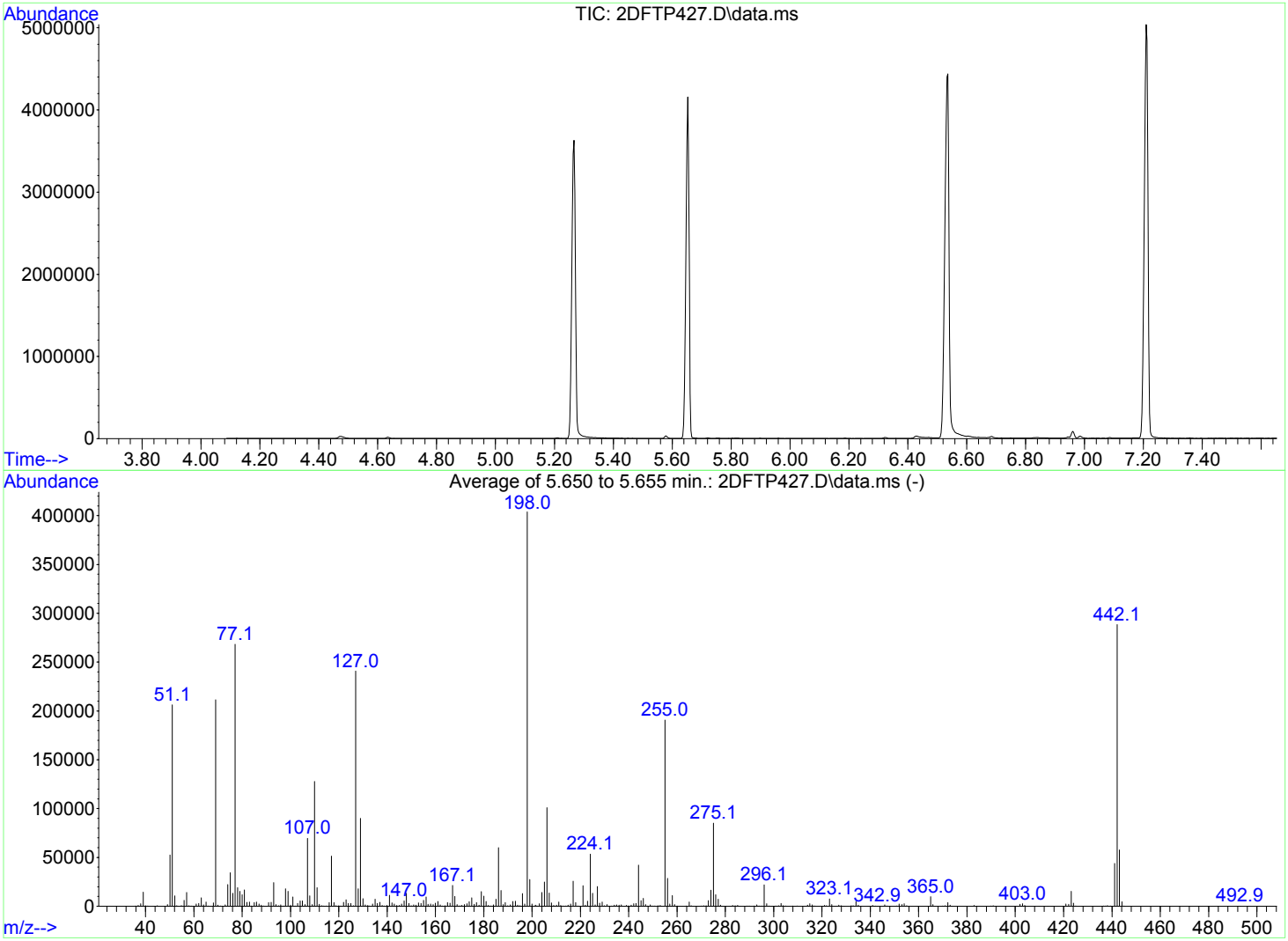
Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Nov 27 13:27:31 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



DFTPP

Data File : C:\INSTARCH\DATA\2S112219\2DFTP427.D Vial: 1
Acq On : 22 Nov 2019 12:17 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



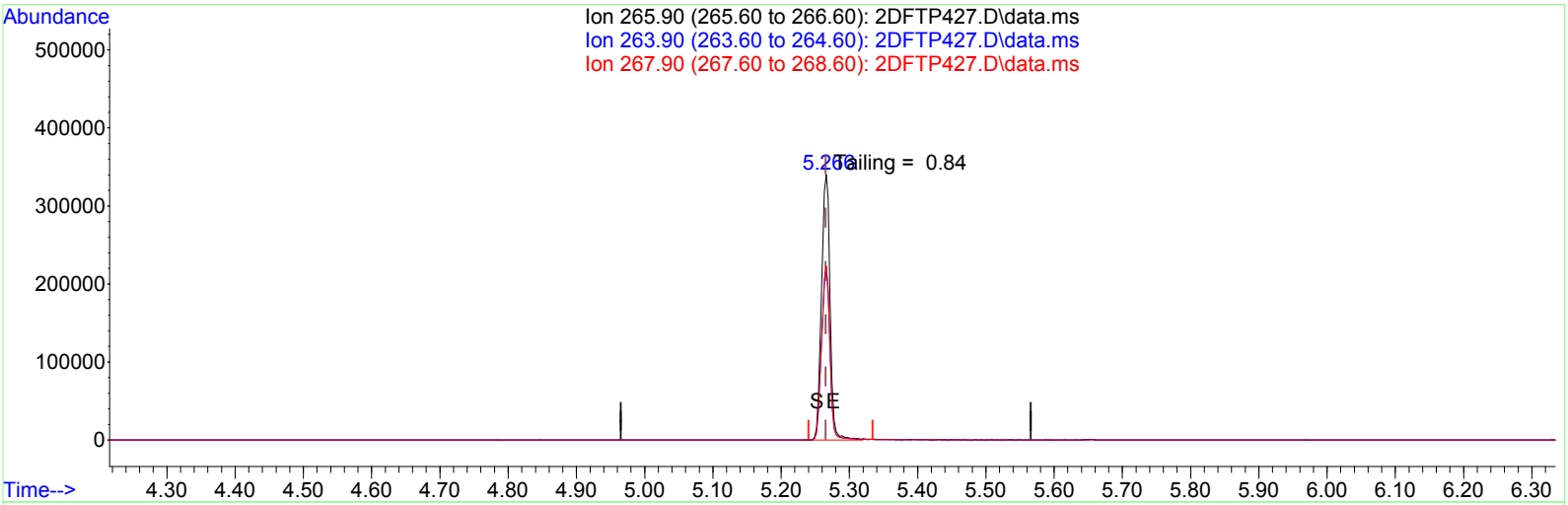
AutoFind: Scans 551, 552, 553; Background Corrected with Scan 542

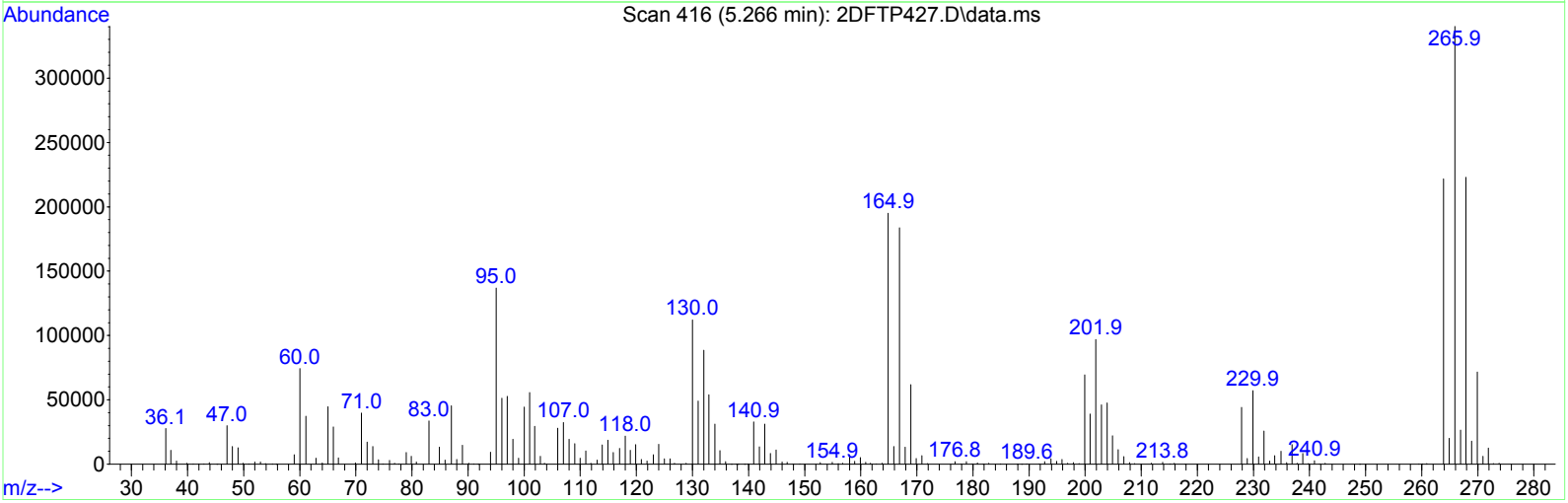
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	51.1	206379	PASS
68	69	0.00	2	1.7	3615	PASS
70	69	0.00	2	0.6	1256	PASS
127	198	10	80	59.6	240792	PASS
197	198	0.00	2	0.6	2328	PASS
198	198	50	100	100.0	403840	PASS
199	198	5	9	6.8	27437	PASS
275	198	10	60	21.1	85117	PASS
365	198	1	100	2.4	9713	PASS
441	442	0.01	24	15.2	43784	PASS
442	198	50	100	71.4	288405	PASS
443	442	15	24	20.0	57696	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112219\2DFTP427.D Vial: 1
Acq On : 22 Nov 2019 12:17 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 04 08:07:50 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M





TIC: 2DFTP427.D\data.ms

(1) Pentachlorophenol

5.266min (+ 0.000) 17.23 ng

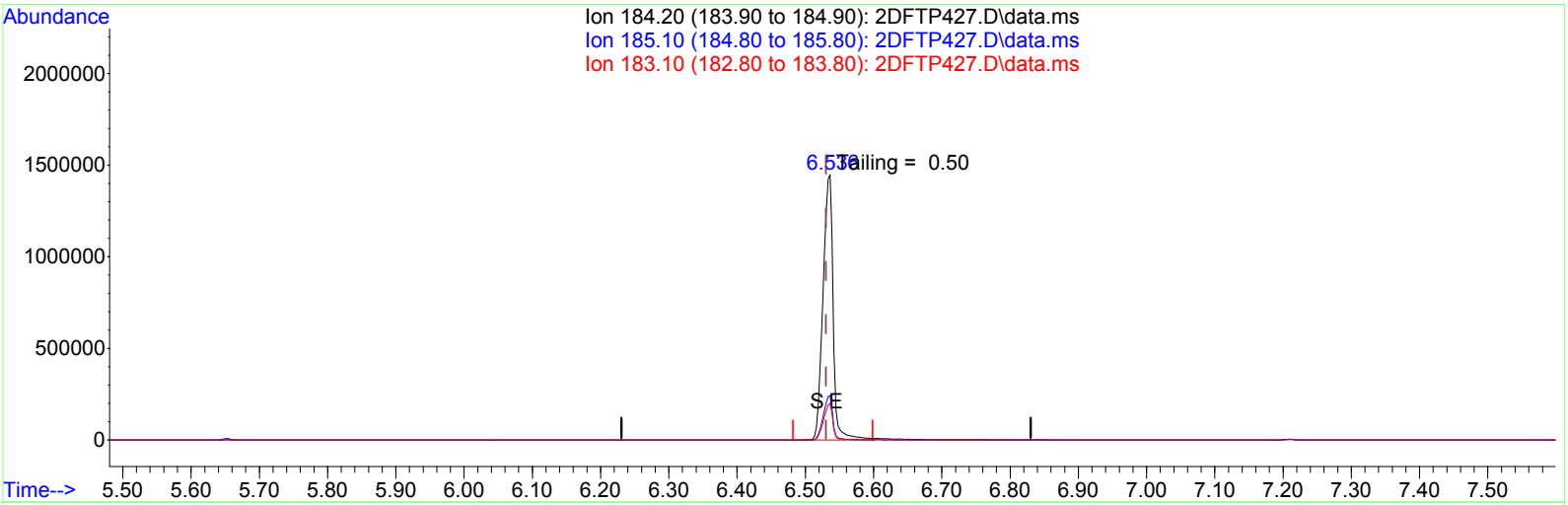
response 298536

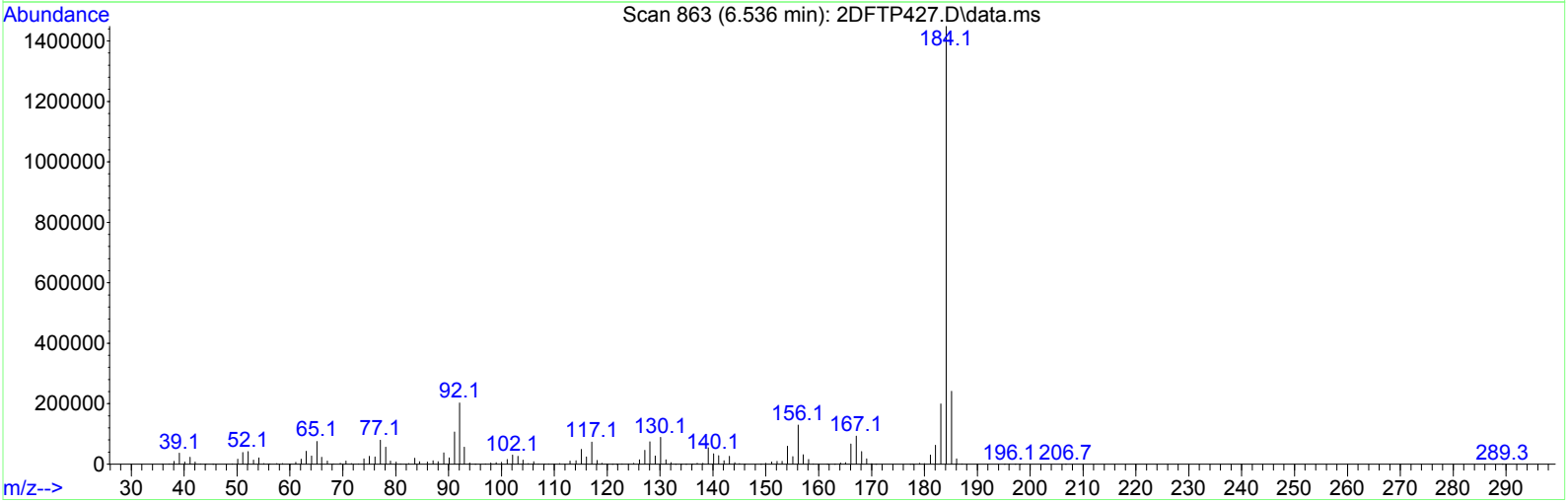
Ion	Exp%	Act%
265.90	100.00	100.00
263.90	64.60	63.92
267.90	65.00	63.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112219\2DFTP427.D Vial: 1
Acq On : 22 Nov 2019 12:17 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 04 08:07:50 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M





TIC: 2DFTP427.D\data.ms

(3) Benzidine

6.536min (+ 0.006) 22.89 ng

response 1504430

Ion	Exp%	Act%
184.20	100.00	100.00
185.10	15.90	15.73
183.10	12.20	12.63
0.00	0.00	0.00

Data File	:	2DFTP427.D	Vial Number	:	1
Data File Path	:	C:\INSTARCH\DATA\2S112219\	Operator	:	RPN
Date Aquired	:	11/22/2019 12:17	Instrument Name	:	SVMS2
Sample Name	:	DFTPP TUNE SVMS8353	Sample Multiplier	:	1
Misc Info	:	SVMS2, 50ng DFTPP			

Calibration Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019

#	Compound	R.T.	QIon	Response
1)	Pentachlorophenol	5.27	266	298536.00
2)	DFTPP	5.65	198	334395.00
3)	Benzidine	6.54	184	1504430.00
4)	DDE	6.68	246	1640.00
5)	DDD	6.96	235	13171.00
6)	DDT	7.21	235	700200.00

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \qquad 2.07\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112219\2CCV575.D Vial: 2
Acq On : 22 Nov 2019 12:32 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8552 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:15:48 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	14Diclbenzd4	1.000	1.000	0.0	99	0.00
2	S	SURR14Dioxaned8	100.000	100.080	-0.1	98	0.00
3	CT	14Dioxane	1.000	1.000	0.0	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2CCV575.D Vial: 2
Acq On : 22 Nov 2019 12:32 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8552 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:15:48 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

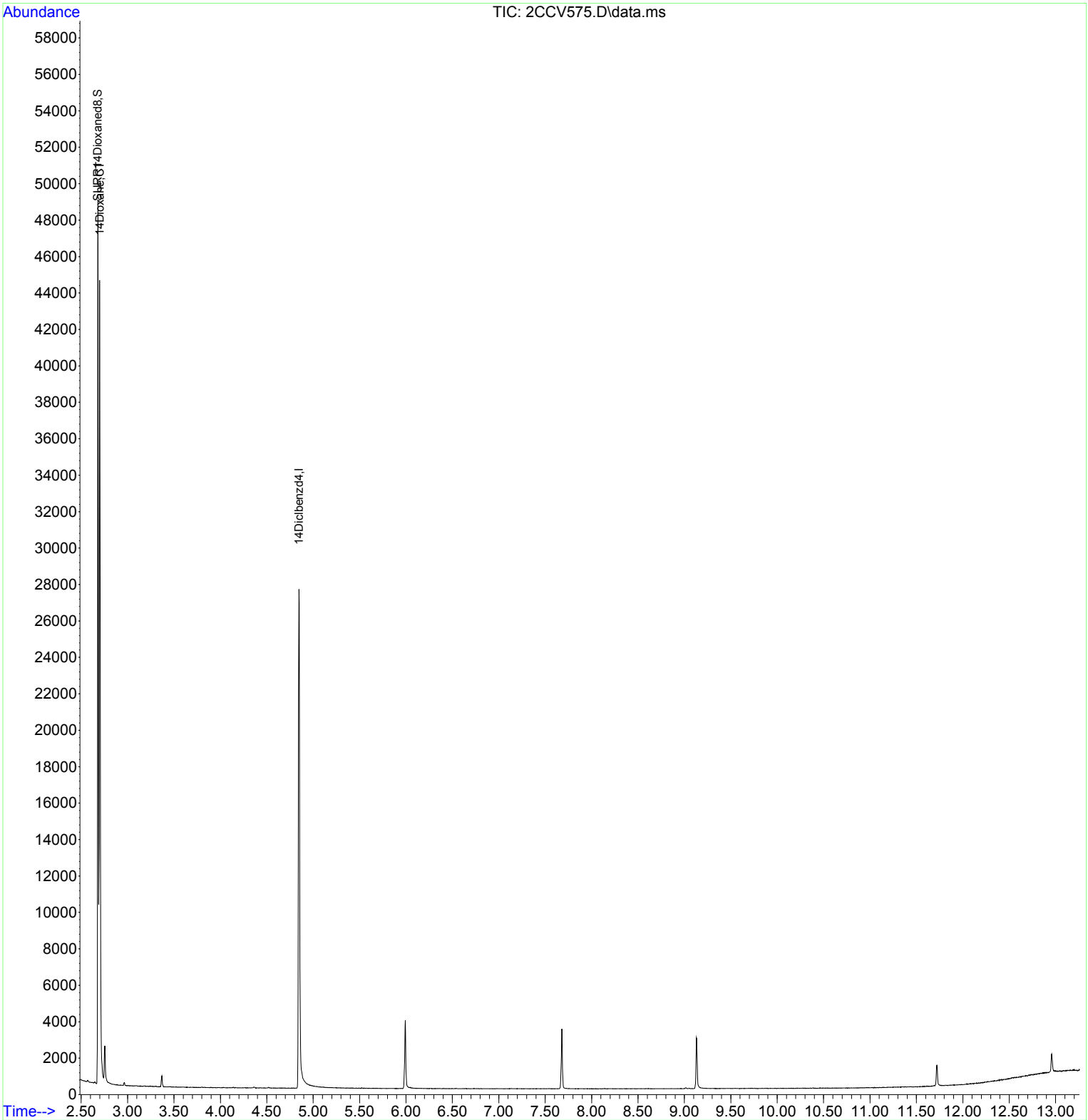
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	26662	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.678	64	13904	100.08	%REC	0.00
Spiked Amount 100.000			Recovery = 100.08%			
Target Compounds						Qvalue
3) 14Dioxane	2.699	58	13521	0.9996	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2CCV575.D Vial: 2
Acq On : 22 Nov 2019 12:32 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8552 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:15:48 2019

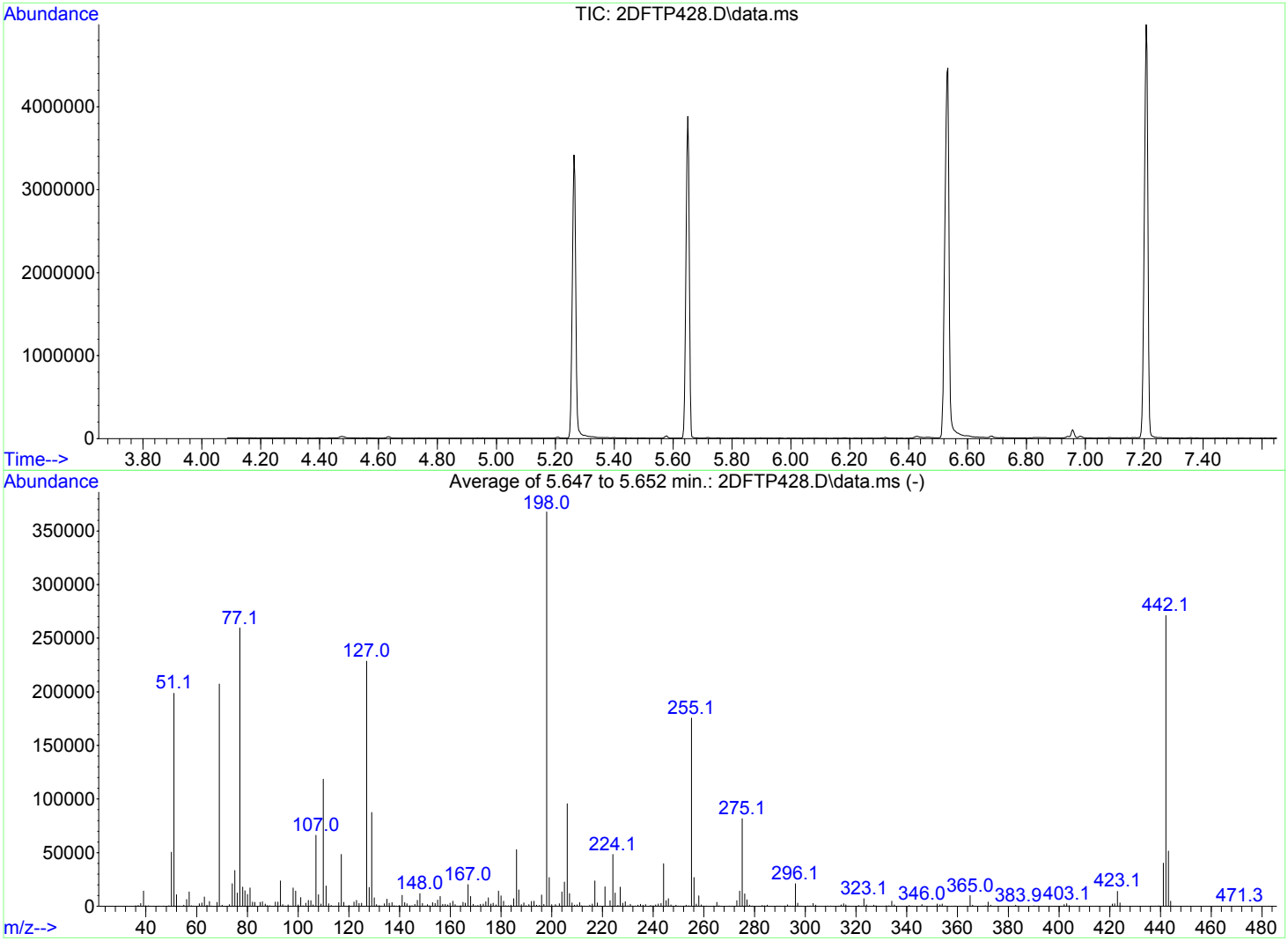
Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



DFTPP

Data File : C:\INSTARCH\DATA\2S112219\2DFTP428.D Vial: 1
Acq On : 22 Nov 2019 16:49 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



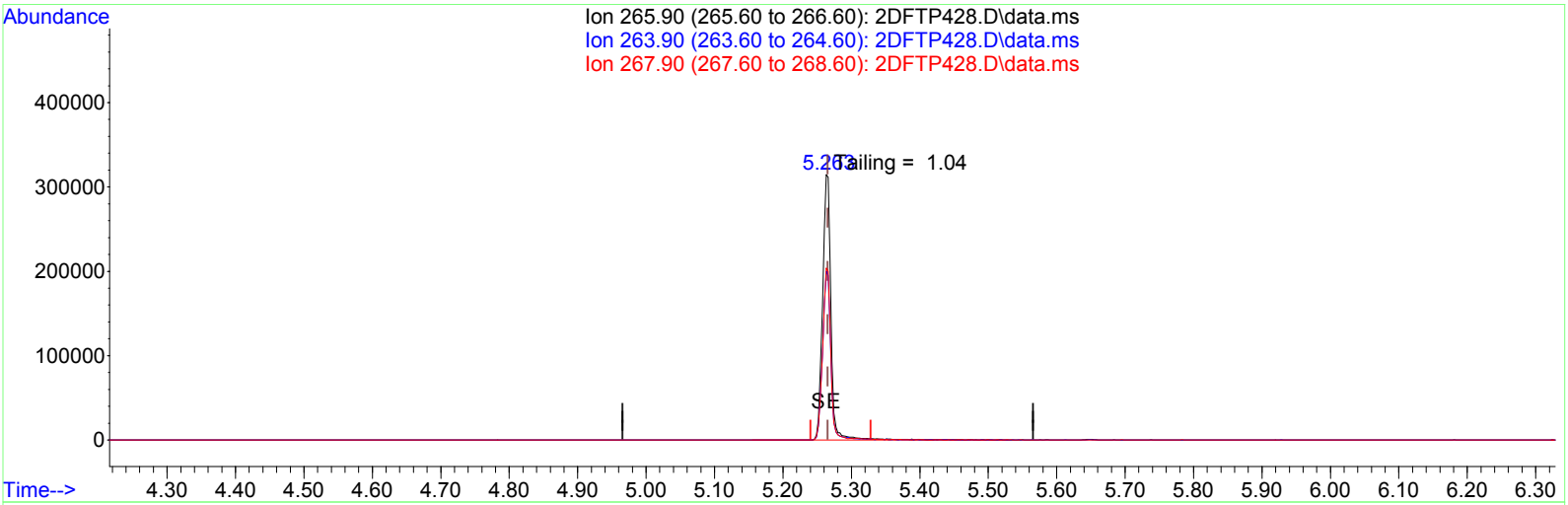
AutoFind: Scans 550, 551, 552; Background Corrected with Scan 541

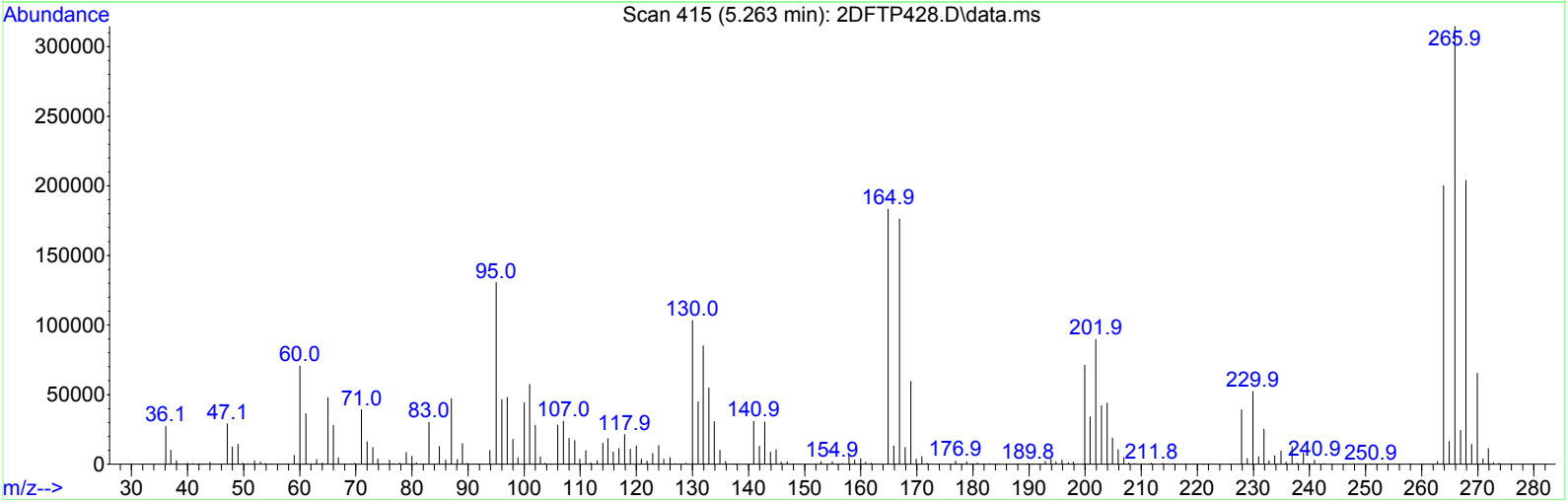
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	54.0	198741	PASS
68	69	0.00	2	1.7	3606	PASS
70	69	0.00	2	0.5	1004	PASS
127	198	10	80	62.1	228459	PASS
197	198	0.00	2	0.5	1826	PASS
198	198	50	100	100.0	367808	PASS
199	198	5	9	7.3	26720	PASS
275	198	10	60	22.2	81629	PASS
365	198	1	100	2.7	9983	PASS
441	442	0.01	24	14.8	40187	PASS
442	198	50	100	73.7	271083	PASS
443	442	15	24	19.0	51616	PASS

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112219\2DFTP428.D Vial: 1
Acq On : 22 Nov 2019 16:49 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 11:13:41 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M





TIC: 2DFTP428.D\data.ms

(1) Pentachlorophenol

5.263min (-0.003) 15.38 ng

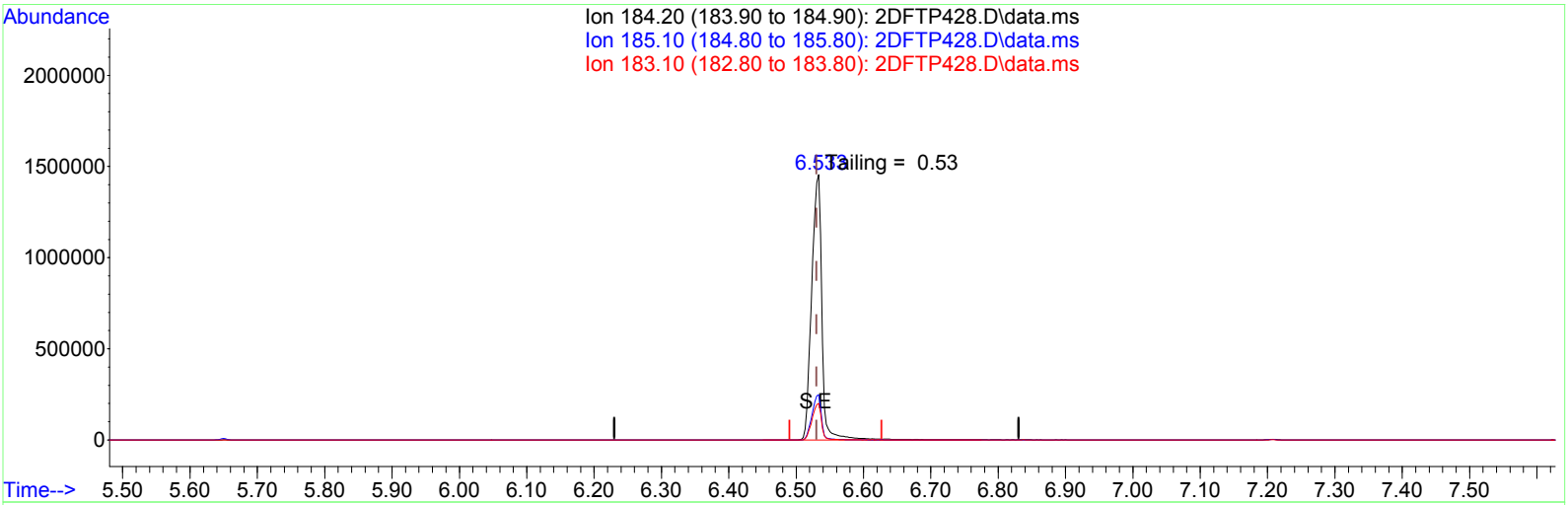
response 266568

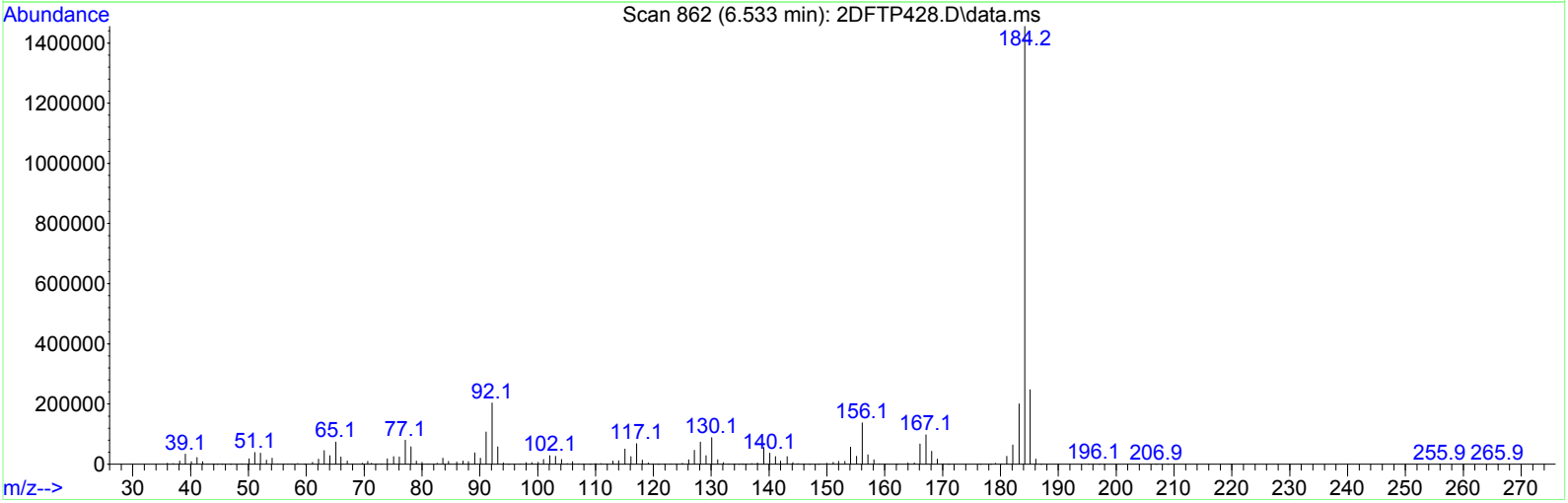
Ion	Exp%	Act%
265.90	100.00	100.00
263.90	64.60	63.45
267.90	65.00	63.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112219\2DFTP428.D Vial: 1
Acq On : 22 Nov 2019 16:49 Operator: RPN
Sample : DFTPP TUNE SVMS8353 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 11:13:41 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M





TIC: 2DFTP428.D\data.ms

(3) Benzidine

6.533min (+ 0.003) 23.22 ng

response 1526256

Ion	Exp%	Act%
184.20	100.00	100.00
185.10	15.90	16.06
183.10	12.20	12.75
0.00	0.00	0.00

Data File	:	2DFTP428.D	Vial Number	:	1
Data File Path	:	C:\INSTARCH\DATA\2S112219\	Operator	:	RPN
Date Aquired	:	11/22/2019 16:49	Instrument Name	:	SVMS2
Sample Name	:	DFTPP TUNE SVMS8353	Sample Multiplier	:	1
Misc Info	:	SVMS2, 50ng DFTPP			

Calibration Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019

#	Compound	R.T.	QIon	Response
1)	Pentachlorophenol	5.26	266	266568.00
2)	DFTPP	5.65	198	307192.00
3)	Benzidine	6.53	184	1526256.00
4)	DDE	6.68	246	1436.00
5)	DDD	6.96	235	13686.00
6)	DDT	7.21	235	661123.00

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \qquad 2.24\ \%$$

Ending CCV %Recovery Report

Data File Name	2CCV576.D
Data File Path	C:\INSTARCH\DATA\2S112219\
Operator	RPN
Date Acquired	11/22/2019 17:05
Acq. Method File	2DIOXN07.M
Sample Name	ICAL 1.0 ug/ml SVMS8552
Misc Info	1000ul+10ul IS SVMS8553
Vial Number	2
Instrument Name	SVMS2
Sample Multiplier	1

#	Name	Ret Time	Amount	Units	Response	50-150 %REC
1	14Diclbenzd4	4.85	1.00	ug/mL	27842	ISTD
2	SURR14Dioxaned8	2.68	99.36	%REC	14415	99
3	14Dioxane	2.70	0.99	ug/mL	13966	99

(#) = recovery out of range Average Percent Recovery = 99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2CCV576.D Vial: 2
Acq On : 22 Nov 2019 17:05 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8552 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:17:07 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

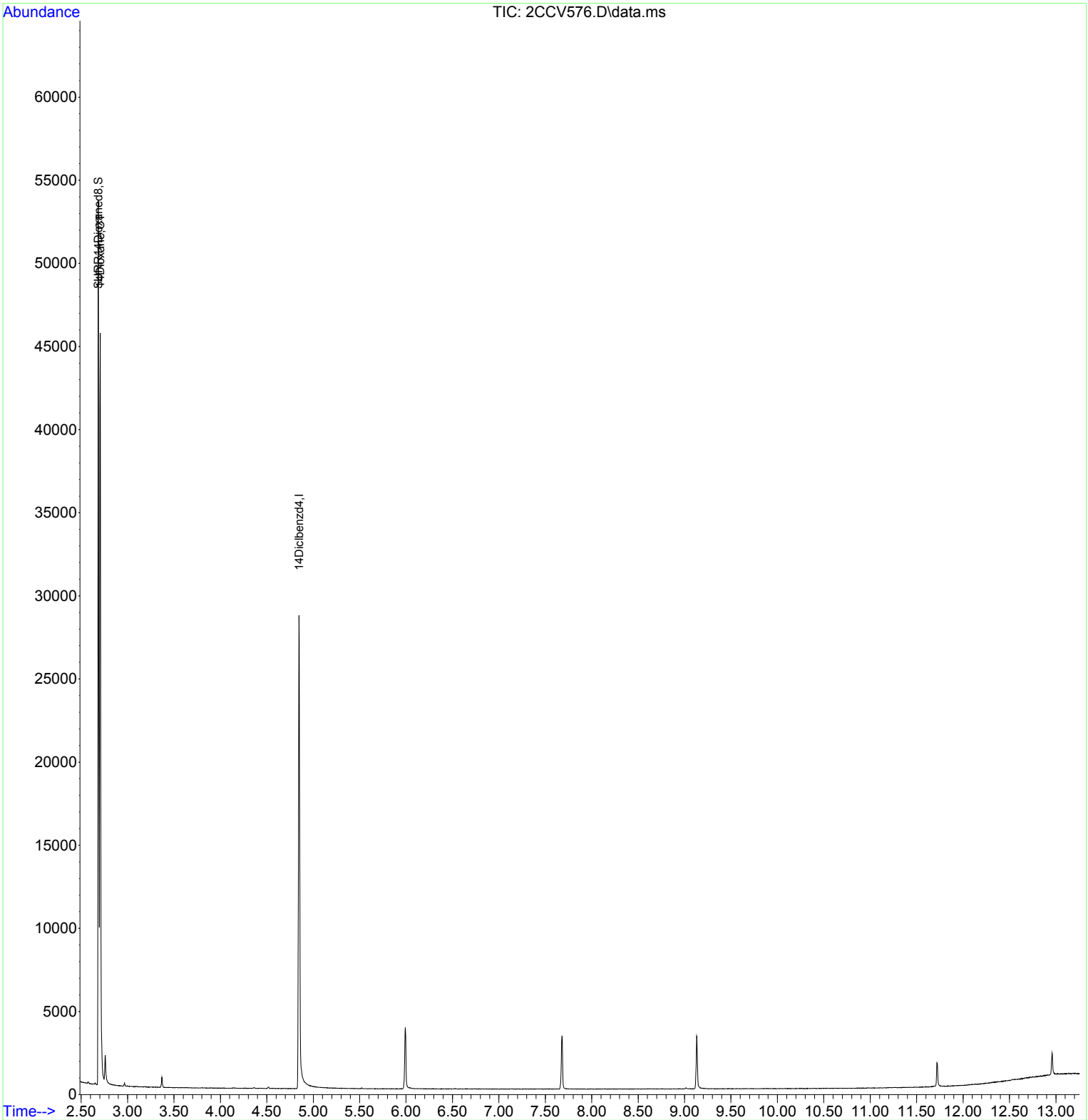
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	27842	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.684	64	14415	99.36	%REC	0.00
Spiked Amount 100.000			Recovery = 99.36%			
Target Compounds						Qvalue
3) 14Dioxane	2.705	58	13966	0.9887	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2CCV576.D Vial: 2
Acq On : 22 Nov 2019 17:05 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8552 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:17:07 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



SEMI - VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL
DOCUMENTS

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBW02.D Vial: 30
Acq On : 21 Nov 2019 11:54 Operator: RPN
Sample : 166847,MBW, Inst : SVMS2
Misc : 360330,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:55:51 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

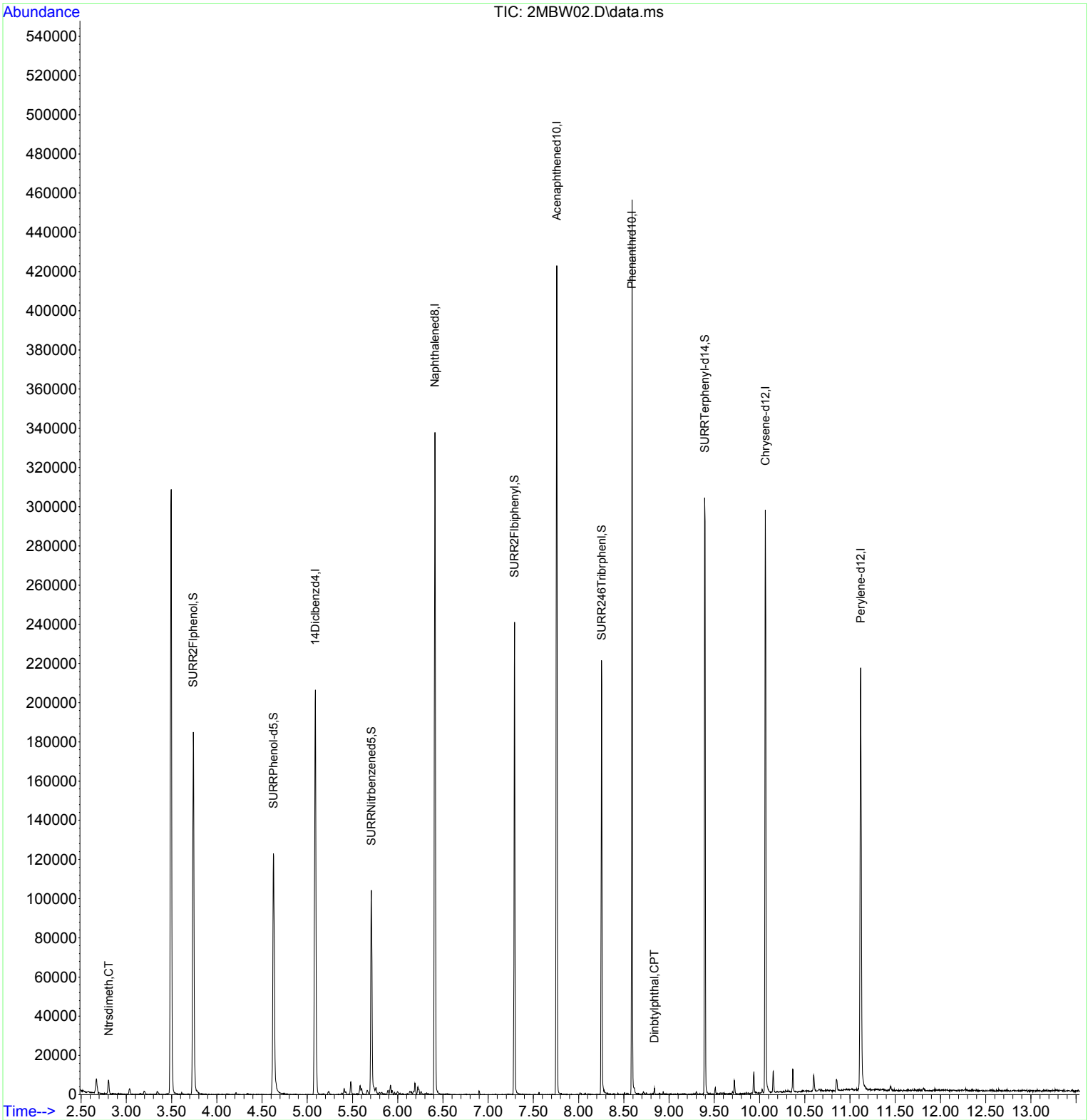
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.090	152	36043	20.00	ug/mL	-0.01
21) Naphthalened8	6.411	136	130932	20.00	ug/mL	0.00
39) Acenaphthened10	7.758	164	67431	20.00	ug/mL	0.00
63) Phenanthrd10	8.590	188	94003	20.00	ug/mL	0.00
75) Chrysene-d12	10.065	240	68286	20.00	ug/mL	0.00
86) Perylene-d12	11.119	264	76155	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.740	112	53216	51.80	%REC	0.00
Spiked Amount 100.000			Recovery = 51.80%			
7) SURRPhenol-d5	4.626	99	53633	40.60	%REC	-0.02
Spiked Amount 100.000			Recovery = 40.60%			
22) SURRNitrbenzened5	5.709	82	36121	63.05	%REC	0.00
Spiked Amount 100.000			Recovery = 63.05%			
44) SURR2Flbiphenyl	7.292	172	56521	61.44	%REC	0.00
Spiked Amount 100.000			Recovery = 61.44%			
62) SURR246Tribrphenl	8.255	330	13437	84.22	%REC	0.00
Spiked Amount 100.000			Recovery = 84.22%			
78) SURRTerphenyl-d14	9.394	244	61218	96.96	%REC	0.00
Spiked Amount 100.000			Recovery = 96.96%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.805	74	519	0.5146	ug/mL#	1
73) Dinbtylphthal	8.837	149	1040	0.1629	ug/mL	94

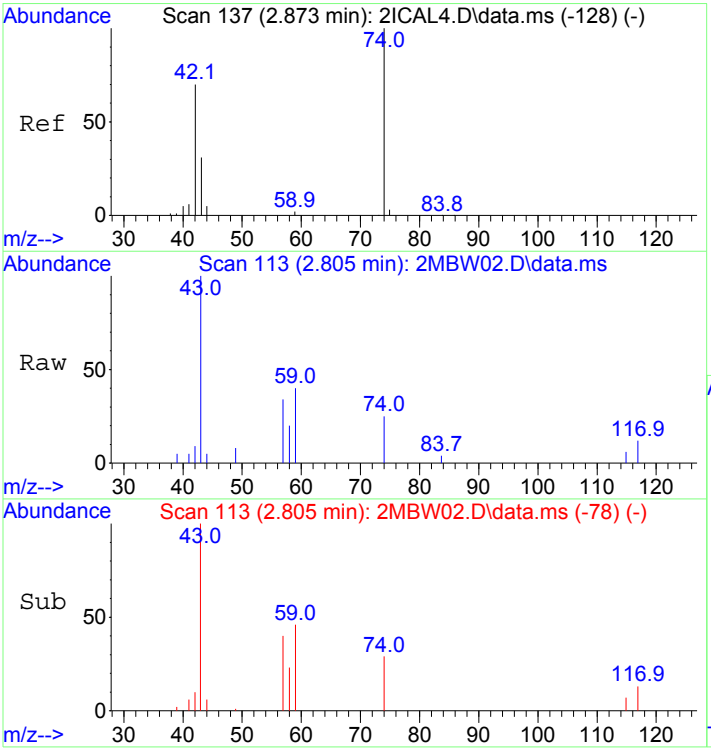
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBW02.D Vial: 30
Acq On : 21 Nov 2019 11:54 Operator: RPN
Sample : 166847,MBW, Inst : SVMS2
Misc : 360330,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:55:51 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

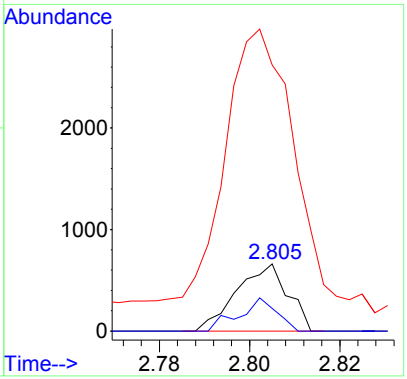


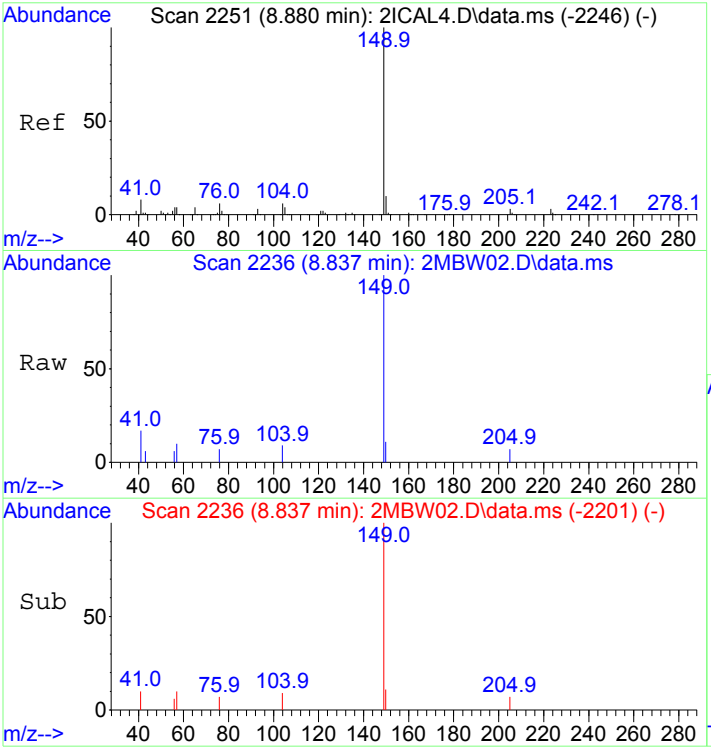


#2
Ntrsdimeth
Concen: 0.51 ug/mL
RT: 2.805 min Scan# 113
Delta R.T. 0.000 min
Lab File: 2MBW02.D
Acq: 21 Nov 2019 11:54

Tgt Ion: 74 Resp: 519

Ion	Ratio	Lower	Upper
74	100		
42	33.8	52.4	112.4#
43	345.8	7.2	67.2#

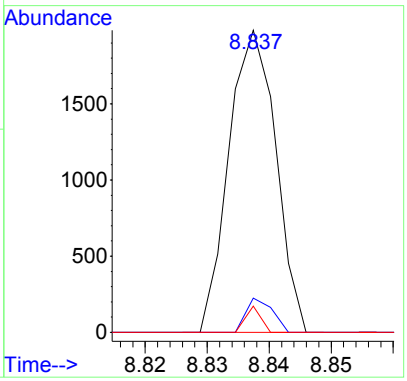




#73
Dinbtylphthal
Concen: 0.16 ug/mL
RT: 8.837 min Scan# 2236
Delta R.T. 0.000 min
Lab File: 2MBW02.D
Acq: 21 Nov 2019 11:54

Tgt Ion:149 Resp: 1040

Ion	Ratio	Lower	Upper
149	100		
150	11.3	0.0	39.6
104	8.7	0.0	36.1



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBTV02.D Vial: 31
Acq On : 21 Nov 2019 12:15 Operator: RPN
Sample : 166847,MBTV, Inst : SVMS2
Misc : 3022,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:52:30 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

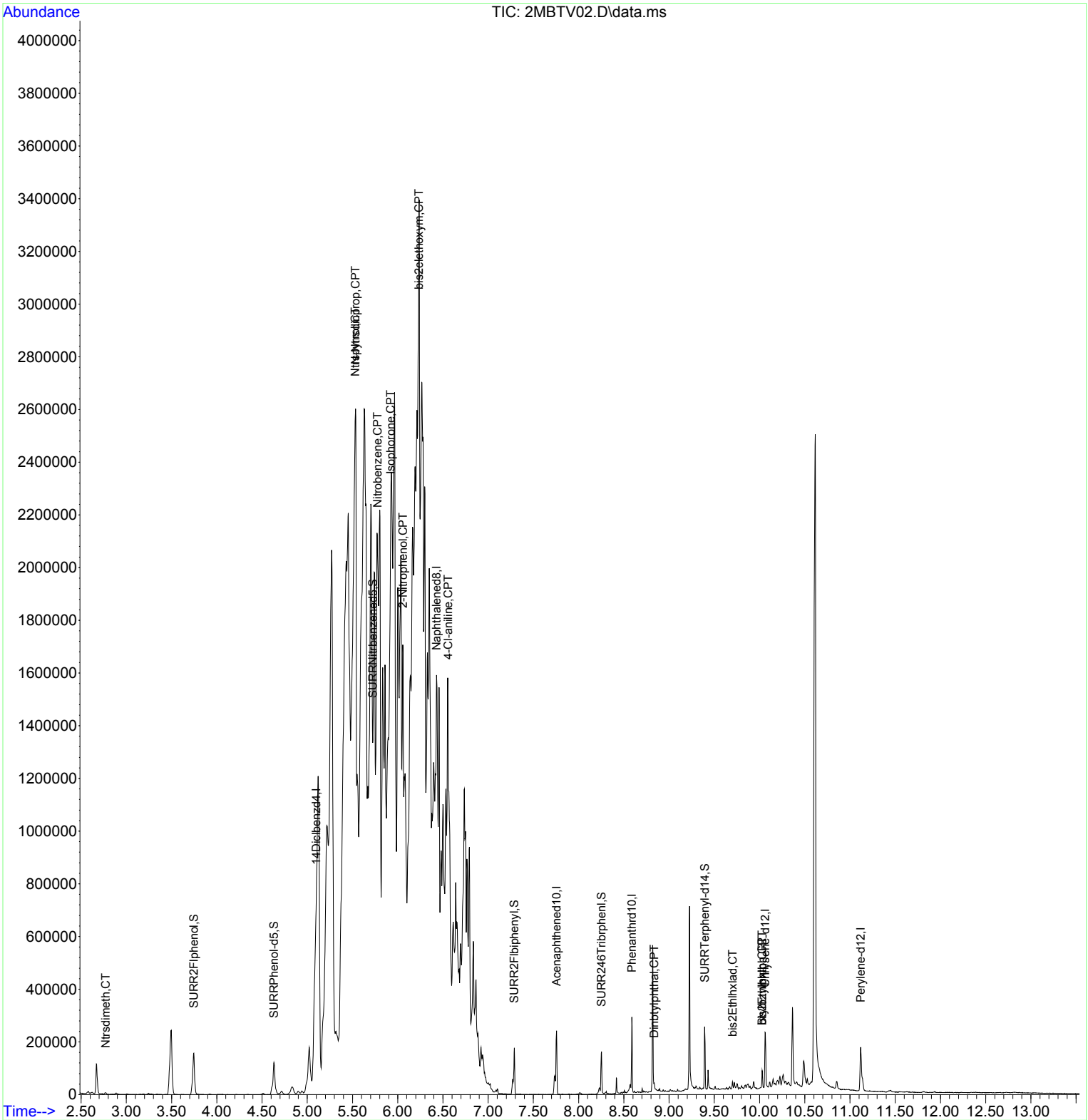
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.098	152	27782	20.00	ug/mL	0.00
21) Naphthalened8	6.428	136	55654	20.00	ug/mL	0.01
39) Acenaphthened10	7.755	164	36635	20.00	ug/mL	0.00
63) Phenanthrd10	8.588	188	58439	20.00	ug/mL	0.00
75) Chrysene-d12	10.062	240	49313	20.00	ug/mL	0.00
86) Perylene-d12	11.119	264	58855	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.746	112	64613	81.59	%REC	0.00
Spiked Amount 100.000			Recovery = 81.59%			
7) SURRPhenol-d5	4.632	99	66434	65.25	%REC	-0.01
Spiked Amount 100.000			Recovery = 65.25%			
22) SURRNitrbenzened5	5.723	82	37300	153.18	%REC	0.00
Spiked Amount 100.000			Recovery = 153.18%			
44) SURR2Flbiphenyl	7.289	172	41658	83.35	%REC	0.00
Spiked Amount 100.000			Recovery = 83.35%			
62) SURR246Tribrphenl	8.252	330	9965	114.96	%REC	0.00
Spiked Amount 100.000			Recovery = 114.96%			
78) SURRTerphenyl-d14	9.394	244	44279	97.11	%REC	0.00
Spiked Amount 100.000			Recovery = 97.11%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.771	74	536	0.6058	ug/mL#	1
16) Ntrspyrrol	5.530	100	13144	12.8016	ug/mL#	1
19) N-Ntrsdinprop	5.533	70	117810	72.6814	ug/mL#	56
23) Nitrobenzene	5.777	77	1781	1.3935	ug/mL#	1
24) Isophorone	5.922	82	2337	1.0378	ug/mL	84
25) 2-Nitrophenol	6.059	139	1321	2.4237	ug/mL#	69
27) bis2clethoxym	6.235	93	1978	1.5354	ug/mL#	1
32) 4-Cl-aniline	6.556	127	35495	35.1215	ug/mL#	49
73) Dinbtylphthal	8.835	149	3298	0.8309	ug/mL	98
79) Btylbzylphth	10.028	149	12335	4.8214	ug/mL	90
80) bis2Ethlhxlad	9.701	129	3511	2.1296	ug/mL	92
84) bis2Ethlhxlph	10.028	149	11979	4.7401	ug/mL	93

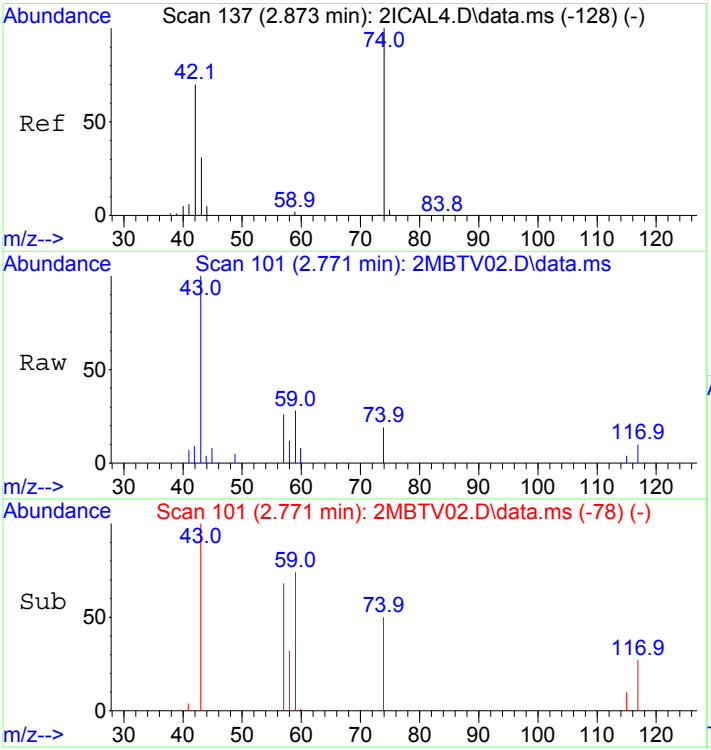
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBTV02.D Vial: 31
Acq On : 21 Nov 2019 12:15 Operator: RPN
Sample : 166847,MBTV, Inst : SVMS2
Misc : 3022,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:52:30 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

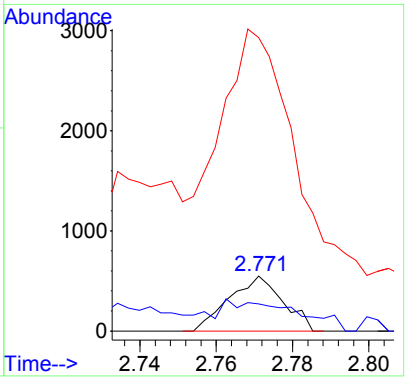


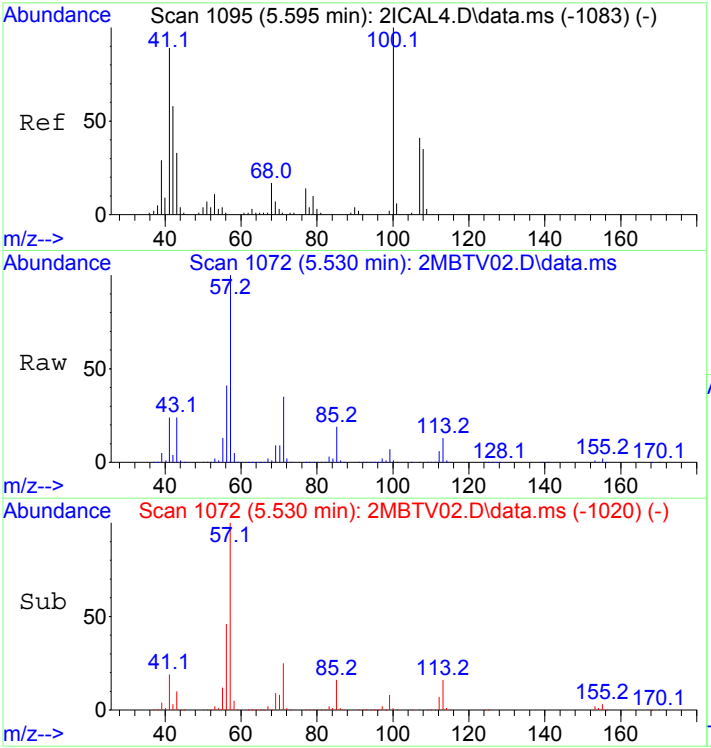


#2
Ntrsdimeth
Concen: 0.61 ug/mL
RT: 2.771 min Scan# 101
Delta R.T. -0.034 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion: 74 Resp: 536

Ion	Ratio	Lower	Upper
74	100		
42	26.4	52.4	112.4#
43	371.8	7.2	67.2#

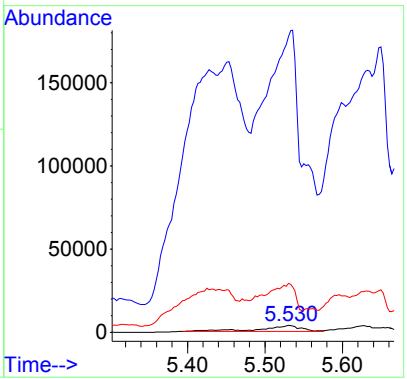


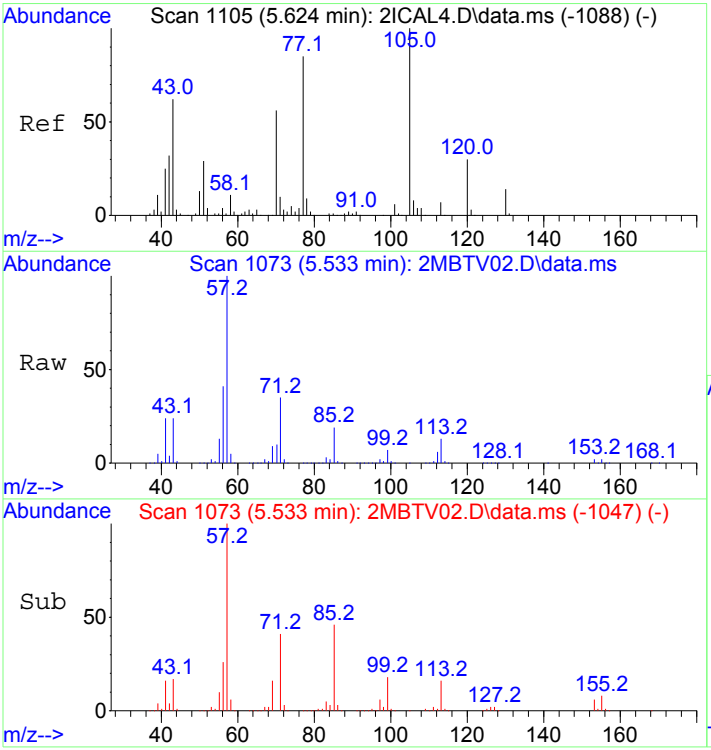


#16
Ntrspyrrol
Concen: 12.80 ug/mL
RT: 5.530 min Scan# 1072
Delta R.T. -0.003 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:100 Resp: 13144

Ion	Ratio	Lower	Upper
100	100		
41	2377.2	66.8	126.8#
42	382.6	37.0	97.0#

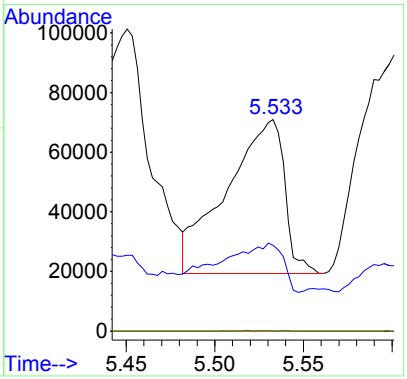


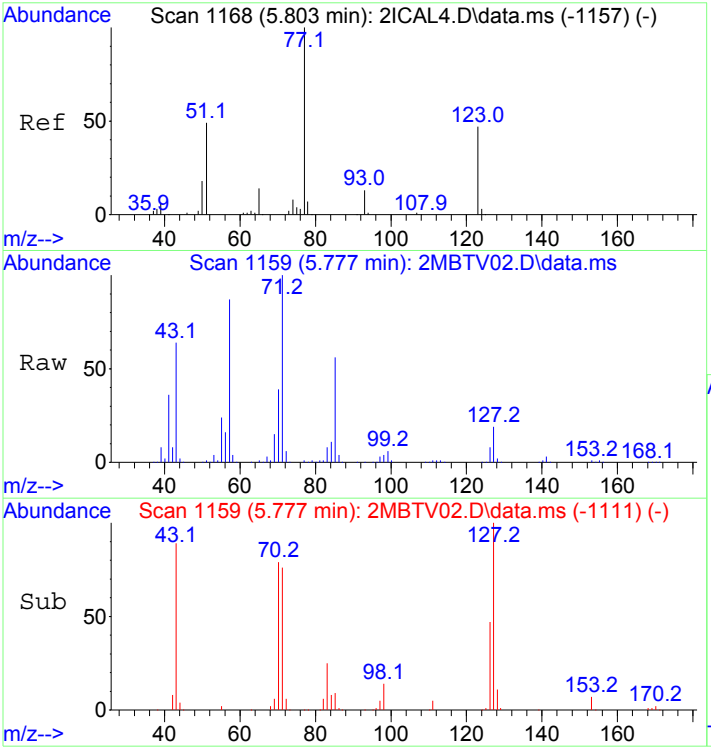


#19
N-Ntrsdinprop
Concen: 72.68 ug/mL
RT: 5.533 min Scan# 1073
Delta R.T. -0.025 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion: 70 Resp: 117810

Ion	Ratio	Lower	Upper
70	100		
42	28.3	33.6	93.6#
101	0.2	0.0	39.9
130	0.0	0.0	52.6

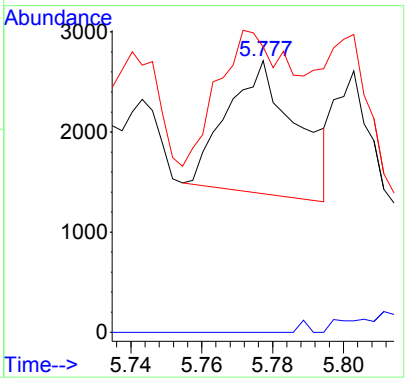


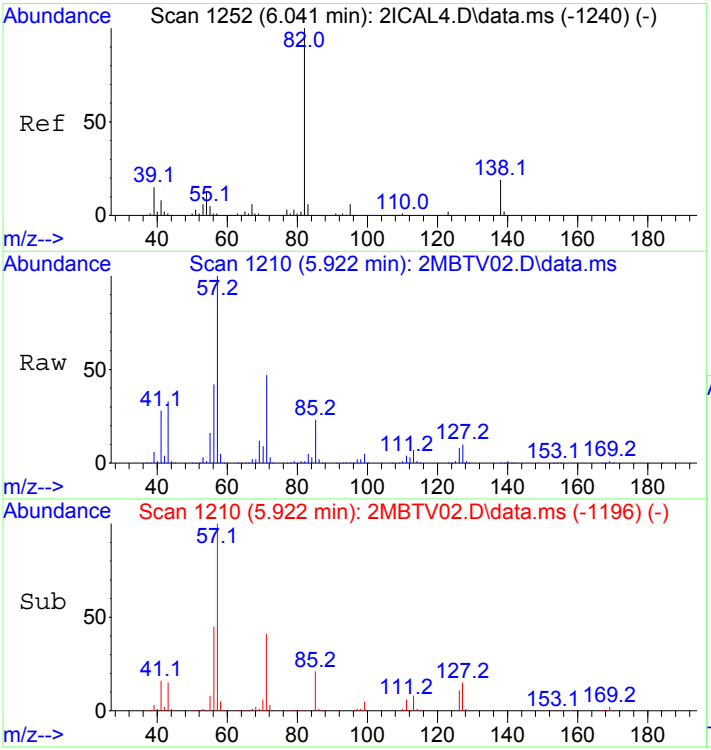


#23
Nitrobenzene
Concen: 1.39 ug/mL
RT: 5.777 min Scan# 1159
Delta R.T. 0.037 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion: 77 Resp: 1781

Ion	Ratio	Lower	Upper
77	100		
123	0.0	11.8	71.8#
65	98.0	0.0	43.1#

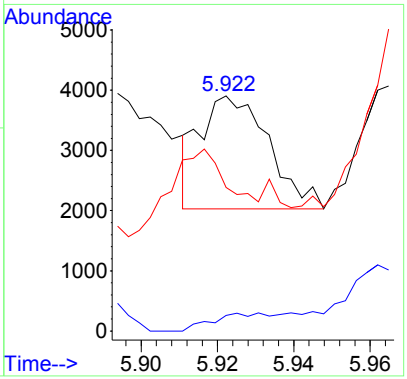


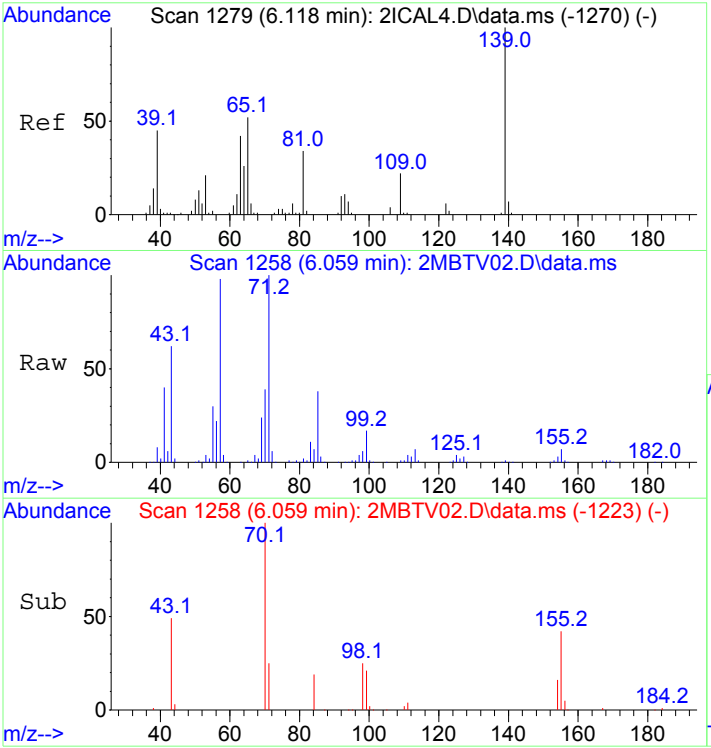


#24
Isophorone
Concen: 1.04 ug/mL
RT: 5.922 min Scan# 1210
Delta R.T. -0.060 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion: 82 Resp: 2337

Ion	Ratio	Lower	Upper
82	100		
138	13.8	0.0	48.6
95	17.0	0.0	37.3

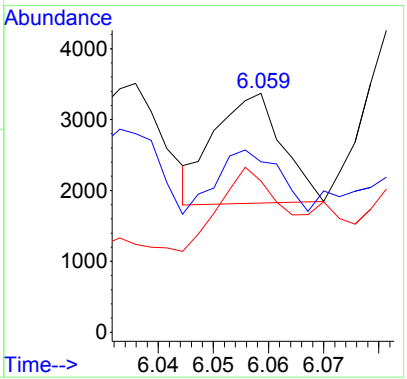


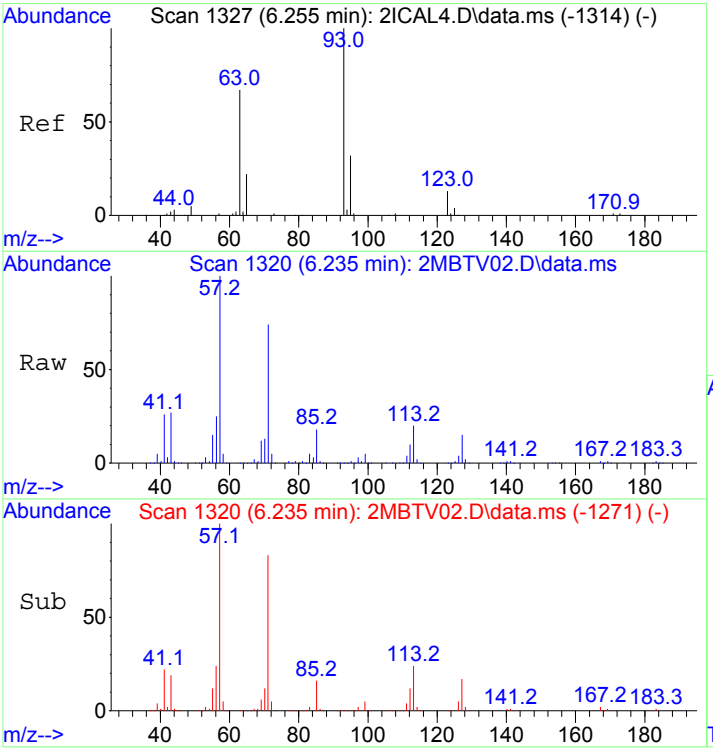


#25
2-Nitrophenol
Concen: 2.42 ug/mL
RT: 6.059 min Scan# 1258
Delta R.T. 0.001 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:139 Resp: 1321

Ion	Ratio	Lower	Upper
139	100		
65	48.4	28.8	88.8
109	65.1	0.0	59.6#

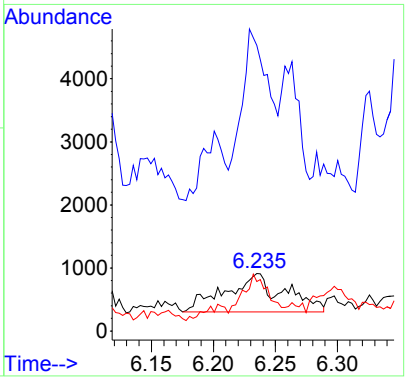


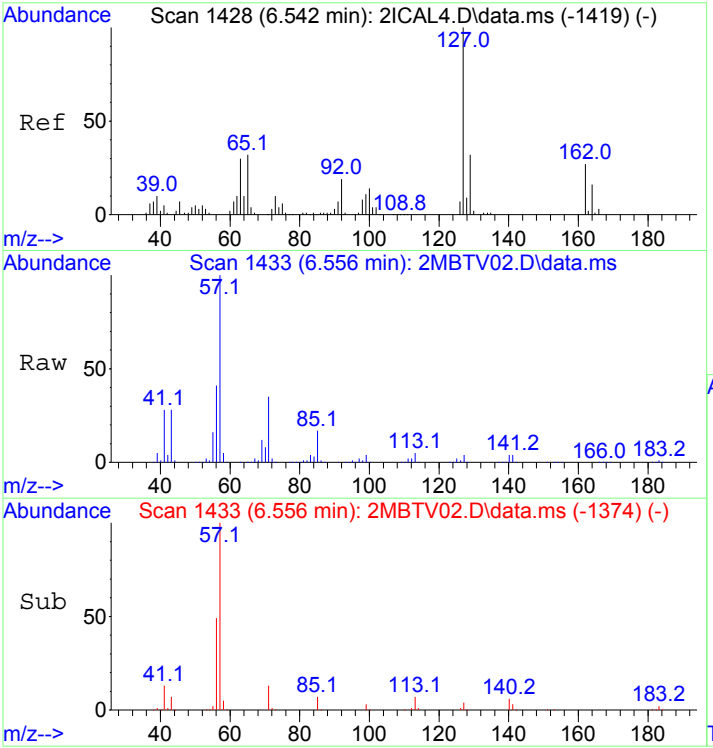


#27
bis2clethoxym
Concen: 1.54 ug/mL
RT: 6.235 min Scan# 1320
Delta R.T. 0.040 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion: 93 Resp: 1978

Ion	Ratio	Lower	Upper
93	100		
95	401.5	3.0	63.0#
123	96.2	0.0	44.8#

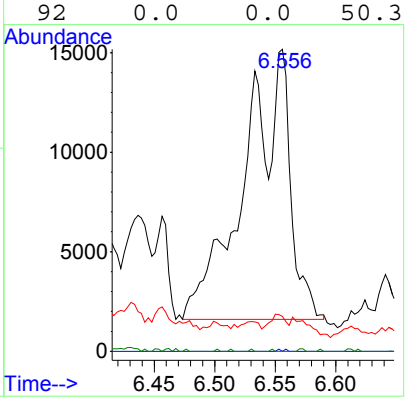


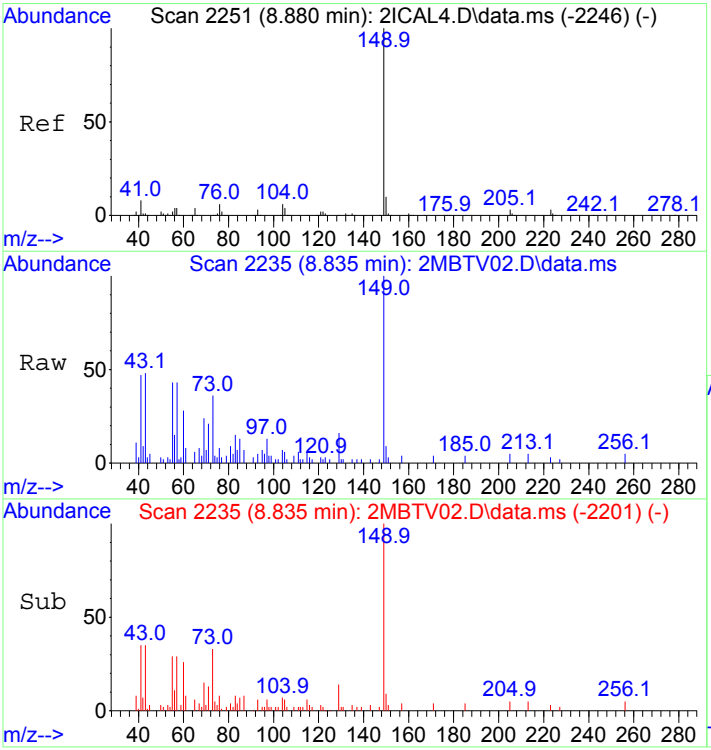


#32
4-Cl-aniline
Concen: 35.12 ug/mL
RT: 6.556 min Scan# 1433
Delta R.T. 0.069 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:127 Resp: 35495

Ion	Ratio	Lower	Upper
127	100		
129	0.0	1.4	61.4#
65	6.5	5.2	65.2
92	0.0	0.0	50.3

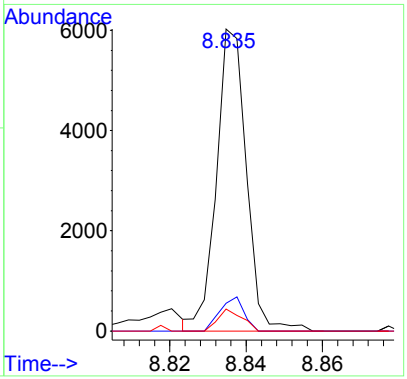


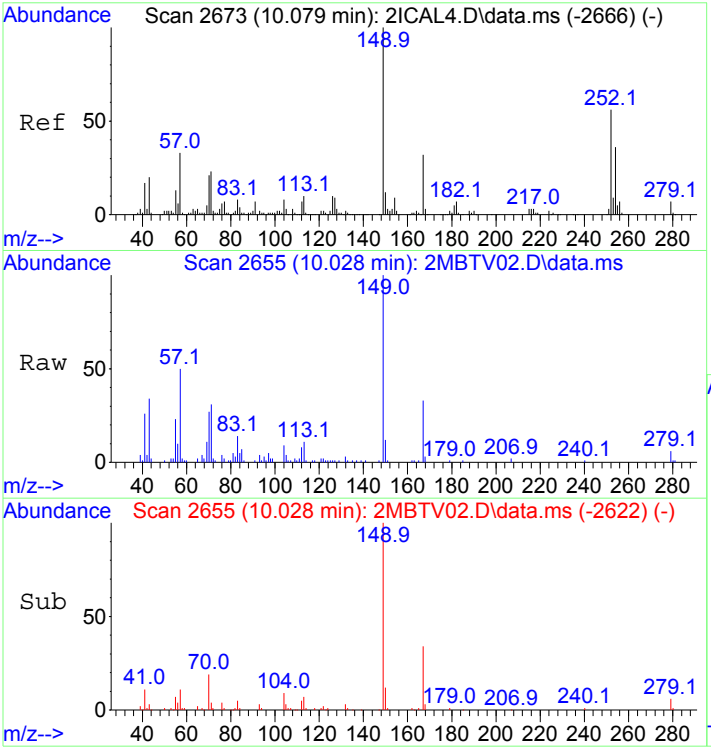


#73
Dinbtylphthal
Concen: 0.83 ug/mL
RT: 8.835 min Scan# 2235
Delta R.T. -0.002 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:149 Resp: 3298

Ion	Ratio	Lower	Upper
149	100		
150	9.1	0.0	39.6
104	7.3	0.0	36.1

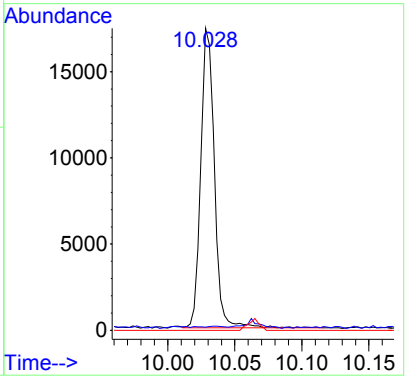


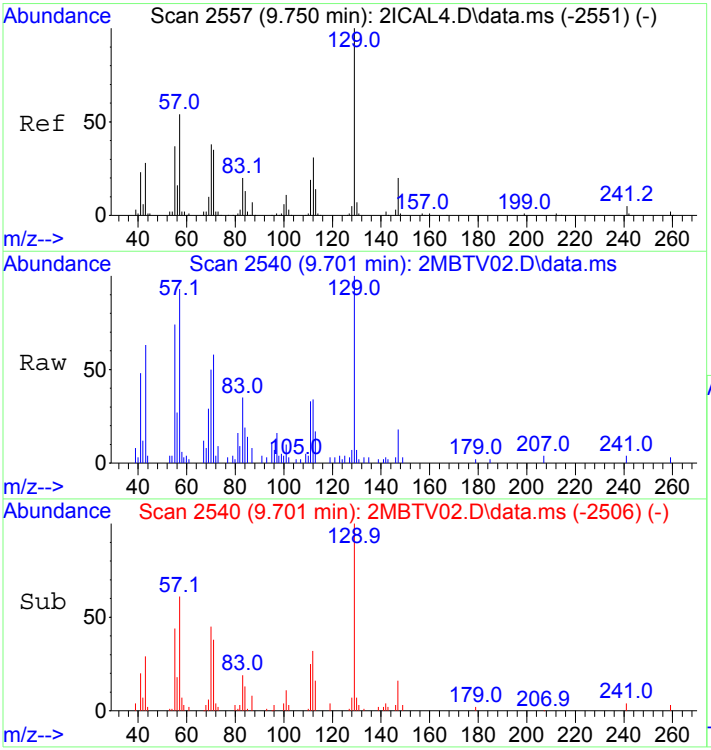


#79
Btylbzylphth
Concen: 4.82 ug/mL
RT: 10.028 min Scan# 2655
Delta R.T. -0.006 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:149 Resp: 12335

Ion	Ratio	Lower	Upper
149	100		
91	0.0	0.0	33.2
206	0.0	0.0	30.0

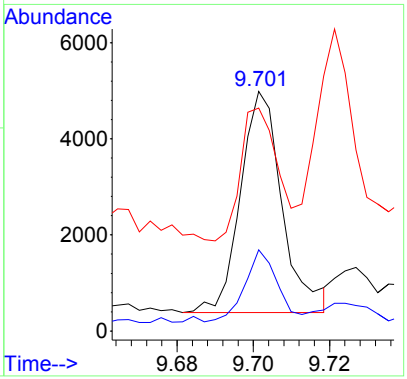


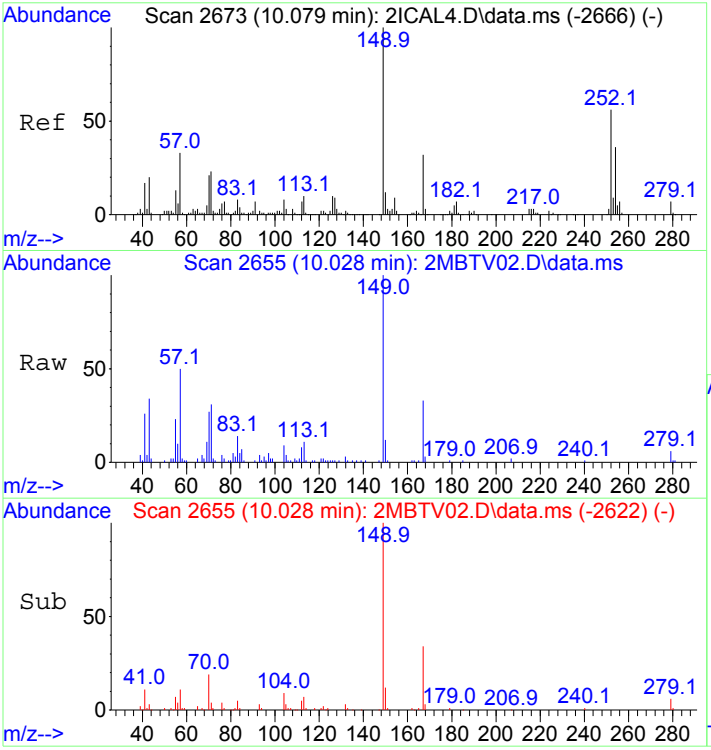


#80
bis2Ethlhxlad
Concen: 2.13 ug/mL
RT: 9.701 min Scan# 2540
Delta R.T. -0.003 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:129 Resp: 3511

Ion	Ratio	Lower	Upper
129	100		
112	35.7	1.3	61.3
57	54.2	30.6	90.6

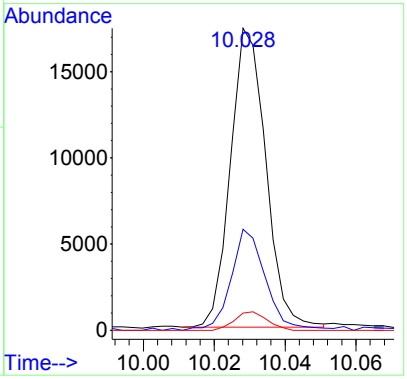




#84
bis2Ethlhxlph
Concen: 4.74 ug/mL
RT: 10.028 min Scan# 2655
Delta R.T. -0.006 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:149 Resp: 11979

Ion	Ratio	Lower	Upper
149	100		
167	33.8	0.0	59.3
279	5.7	0.0	36.0



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBTS02.D Vial: 32
Acq On : 21 Nov 2019 12:36 Operator: RPN
Sample : 166847,MBTS, Inst : SVMS2
Misc : 3022,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:19:10 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

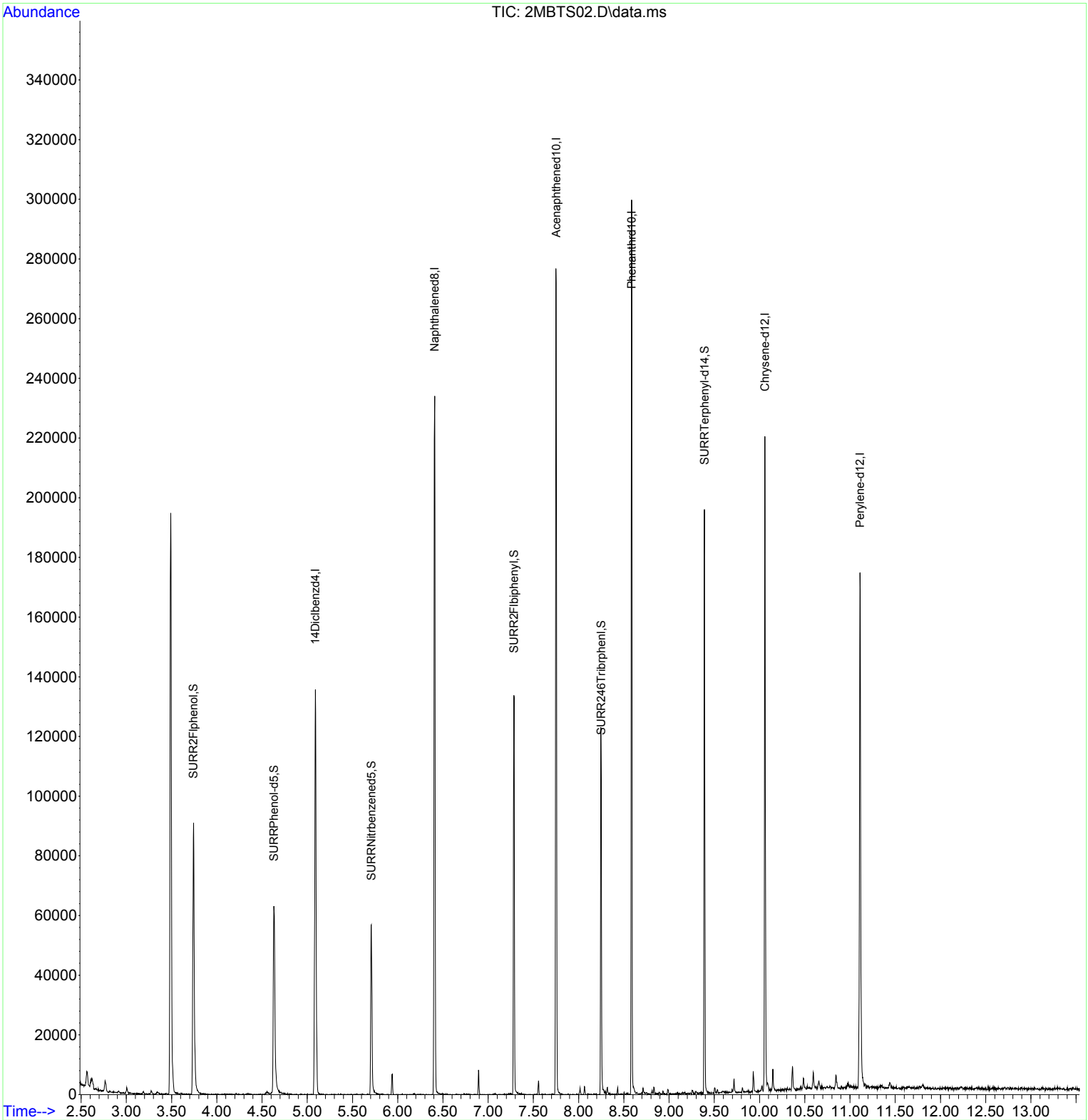
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.090	152	24004	20.00	ug/mL	-0.01
21) Naphthalened8	6.408	136	88128	20.00	ug/mL	0.00
39) Acenaphthened10	7.752	164	44624	20.00	ug/mL	0.00
63) Phenanthrd10	8.585	188	62943	20.00	ug/mL	0.00
75) Chrysene-d12	10.059	240	50425	20.00	ug/mL	0.00
86) Perylene-d12	11.111	264	60958	20.00	ug/mL	-0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.743	112	29589	43.24	%REC	0.00
Spiked Amount 100.000			Recovery = 43.24%			
7) SURRPhenol-d5	4.632	99	29541	33.58	%REC	-0.01
Spiked Amount 100.000			Recovery = 33.58%			
22) SURRNitrbenzened5	5.709	82	19957	51.76	%REC	0.00
Spiked Amount 100.000			Recovery = 51.76%			
44) SURR2Flbiphenyl	7.286	172	32823	53.92	%REC	0.00
Spiked Amount 100.000			Recovery = 53.92%			
62) SURR246Tribrphenl	8.249	330	7739	73.29	%REC	0.00
Spiked Amount 100.000			Recovery = 73.29%			
78) SURRTerphenyl-d14	9.392	244	38753	83.12	%REC	0.00
Spiked Amount 100.000			Recovery = 83.12%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBTS02.D Vial: 32
Acq On : 21 Nov 2019 12:36 Operator: RPN
Sample : 166847,MBTS, Inst : SVMS2
Misc : 3022,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:19:10 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2LCSW02.D Vial: 33
Acq On : 21 Nov 2019 12:58 Operator: RPN
Sample : 166847,LCSW, Inst : SVMS2
Misc : 360331,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:18:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.087	152	33533	20.00	ug/mL	-0.02
21) Naphthalened8	6.411	136	123346	20.00	ug/mL	0.00
39) Acenaphthened10	7.755	164	63305	20.00	ug/mL	0.00
63) Phenanthrd10	8.590	188	80207	20.00	ug/mL	0.00
75) Chrysene-d12	10.065	240	64952	20.00	ug/mL	0.00
86) Perylene-d12	11.119	264	77866	20.00	ug/mL	0.00
System Monitoring Compounds						
4) SURR2Flphenol	3.743	112	44285	46.33	%REC	0.00
Spiked Amount 100.000			Recovery = 46.33%			
7) SURRPhenol-d5	4.627	99	49259	40.08	%REC	-0.02
Spiked Amount 100.000			Recovery = 40.08%			
22) SURRNitrbenzened5	5.709	82	28907	53.56	%REC	0.00
Spiked Amount 100.000			Recovery = 53.56%			
44) SURR2Flbiphenyl	7.289	172	51660	59.82	%REC	0.00
Spiked Amount 100.000			Recovery = 59.82%			
62) SURR246Tribrphenl	8.252	330	11086	74.01	%REC	0.00
Spiked Amount 100.000			Recovery = 74.01%			
78) SURRTerphenyl-d14	9.394	244	52033	86.64	%REC	0.00
Spiked Amount 100.000			Recovery = 86.64%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.845	74	15315	8.4916	ug/mL	98
3) Pyridine	2.882	79	18675	7.0083	ug/mL	97
5) Aniline	4.692	93	33932	8.9305	ug/mL	99
6) bis2Clethletr	4.752	93	31236	10.9854	ug/mL	95
8) Phenol	4.644	94	26449	8.3163	ug/mL	97
9) 2-Cl-phenol	4.837	128	26899	11.0758	ug/mL	98
10) 13Diclbenz	5.019	146	26956	10.2416	ug/mL	95
11) 14Diclbenz	5.110	146	27097	10.3294	ug/mL	98
12) 12Diclbenz	5.291	146	25010	10.5020	ug/mL	99
13) Benzyl alcoho	5.252	108	15910	10.6867	ug/mL	97
14) bis2clispreth	5.402	45	45228	11.4270	ug/mL	99
15) 2Methylphenol	5.374	107	20832	11.2642	ug/mL	96
16) Ntrspyrrol	5.522	100	15304	12.3635	ug/mL	99
17) Acetophenone	5.547	105	38363	12.2061	ug/mL	99
18) Hexaclethane	5.664	117	10038	10.2225	ug/mL	94
19) N-Ntrsdinprop	5.544	70	23116	11.8153	ug/mL	98
20) 3&4Methylphenol	5.547	107	25510	11.3116	ug/mL	88
23) Nitrobenzene	5.729	77	32614	11.5140	ug/mL	98
24) Isophorone	5.973	82	60863	12.1954	ug/mL	99
25) 2-Nitrophenol	6.050	139	13857	11.4712	ug/mL	97
26) 24Dimthpheno	6.098	122	21985	11.1713	ug/mL	96
27) bis2clethoxym	6.186	93	33936	11.8860	ug/mL	97
28) 24Diclphenol	6.286	162	19848	11.9902	ug/mL	99
29) 124Triclbenz	6.357	180	20203	11.1500	ug/mL	98
30) Benzoic acid	6.169	122	9954	11.1952	ug/mL	96
31) Naphthalene	6.428	128	74036	11.3342	ug/mL	99
32) 4-Cl-aniline	6.482	127	24956	11.1417	ug/mL	98
33) 26Diclphenol	6.488	162	17374	14.0066	ug/mL	98
34) Hexaclprop	6.508	213	12061	11.1596	ug/mL	97
35) Hexaclbutdien	6.542	225	9499	10.9835	ug/mL	96
36) 4Cl3methylphe	6.903	107	28475	14.6670	ug/mL	99
37) 2Methylnaphth	7.011	142	54433	12.2943	ug/mL	100
38) 1Methylnaphth	7.087	141	44720	12.2821	ug/mL	100
40) Hxclcycpentdi	7.133	237	10425	11.2499	ug/mL	98

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2LCSW02.D Vial: 33
Acq On : 21 Nov 2019 12:58 Operator: RPN
Sample : 166847,LCSW, Inst : SVMS2
Misc : 360331,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:18:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

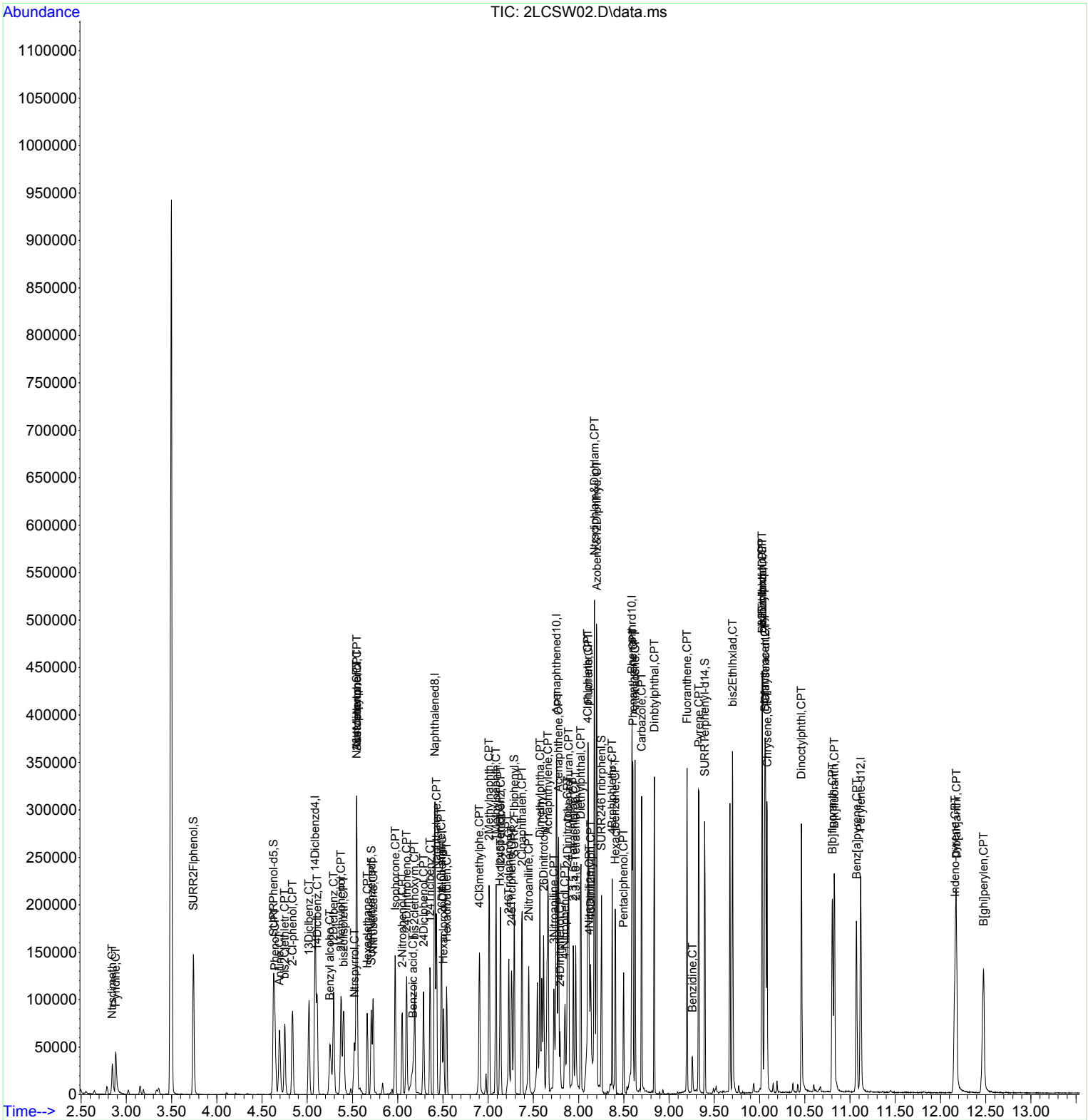
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.138	216	20610	12.4897 ug/mL	99
42) 246Triclpheno	7.229	196	16737	14.7159 ug/mL	97
43) 245Triclpheno	7.261	196	17517	15.3933 ug/mL	95
45) 2Clnaphthalen	7.374	162	47818	12.7529 ug/mL	97
46) 2Nitroaniline	7.448	65	24159	15.4543 ug/mL	99
47) Acnaphthylene	7.661	152	84870	14.1626 ug/mL	99
48) Dimethylphtha	7.573	163	60826	15.5244 ug/mL	99
49) 26Dinitrotolu	7.613	165	14984	15.8297 ug/mL	86
50) Acenaphthene	7.778	154	56351	14.1796 ug/mL	100
51) 3Nitroaniline	7.727	138	14483	14.6205 ug/mL	96
52) 24Dinitphenol	7.795	184	6288	13.3360 ug/mL#	61
53) Dibenzofuran	7.888	168	77105	15.0378 ug/mL	100
54) 24Dinitrotolu	7.877	165	19716	16.3417 ug/mL	98
55) 4-Nitrophenol	7.849	65	12403	11.5471 ug/mL	95
56) 2,3,5,6-Tetrachlorop	7.940	232	15630	16.8298 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.968	232	13212	16.0425 ug/mL	97
58) Fluorene	8.107	166	66921	15.8771 ug/mL	99
59) 4Clphlphlethr	8.102	204	29059	14.9618 ug/mL	97
60) Diethylphthal	8.025	149	65490	15.8783 ug/mL	98
61) 4Nitroaniline	8.119	138	17934	17.4716 ug/mL	98
64) 46Dinit2mylph	8.133	198	9485	14.6440 ug/mL	97
65) Ntrsdiphlam&Diphlam	8.175	169	87819	36.5488 ug/mL	99
66) Azobenz&12Diphlhyd	8.201	182	37475	35.5642 ug/mL	97
67) 4Brphlphlethr	8.372	248	14553	18.0912 ug/mL	94
68) Hexaclbenzene	8.406	284	14131	17.6396 ug/mL	95
69) Pentaclphenol	8.497	266	7709	16.7247 ug/mL	97
70) Phenanthrene	8.602	178	88527	17.8994 ug/mL	99
71) Anthracene	8.624	178	76433	16.5402 ug/mL	98
72) Carbazole	8.695	167	69768	19.3858 ug/mL	99
73) Dinbtylphthal	8.838	149	94953	17.4300 ug/mL	99
74) Fluoranthene	9.198	202	82224	16.6656 ug/mL	98
76) Benzidine	9.258	184	11165	10.1058 ug/mL	94
77) Pyrene	9.329	202	86102	17.6701 ug/mL	99
79) Btylbzylphth	10.031	149	59953	17.7917 ug/mL	99
80) bis2Ethlhxlad	9.701	129	39336	18.1149 ug/mL	97
81) 33Diclbnzidin	10.028	252	21933	18.4798 ug/mL	99
82) B[a]anthracen	10.059	228	71600	16.7555 ug/mL	99
83) Chrysene	10.085	228	70832	16.9440 ug/mL	99
84) bis2Ethlhxlph	10.031	149	60062	18.0442 ug/mL	98
85) Dinoctylphthl	10.463	149	105859	16.9563 ug/mL	100
87) B[b]fluoranth	10.807	252	69768	16.2106 ug/mL	98
88) B[k]fluoranth	10.827	252	74067	17.5218 ug/mL	99
89) Benz[a]pyrene	11.074	252	69080	16.7507 ug/mL	98
90) Indeno-pyrene	12.162	276	89410	19.0842 ug/mL	97
91) Dib[ah]anthr	12.176	278	70725	18.8348 ug/mL	98
92) B[ghi]perylen	12.477	276	79904	19.5491 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2LCSW02.D Vial: 33
Acq On : 21 Nov 2019 12:58 Operator: RPN
Sample : 166847,LCSW, Inst : SVMS2
Misc : 360331,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:18:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\356624MS.D Vial: 37
Acq On : 21 Nov 2019 14:23 Operator: RPN
Sample : 166847,MSW356624, Inst : SVMS2
Misc : 360333,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 21 14:39:40 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	5.090	152	26737	20.00	ug/mL	-0.01
21) Naphthalened8	6.408	136	96426	20.00	ug/mL	0.00
39) Acenaphthened10	7.752	164	47987	20.00	ug/mL	0.00
63) Phenanthrd10	8.585	188	59264	20.00	ug/mL	0.00
75) Chrysene-d12	10.062	240	50930	20.00	ug/mL	0.00
86) Perylene-d12	11.113	264	68044	20.00	ug/mL	-0.01
System Monitoring Compounds						
4) SURR2Flphenol	3.740	112	35469	46.54	%REC	0.00
Spiked Amount 100.000			Recovery = 46.54%			
7) SURRPhenol-d5	4.629	99	40729	41.56	%REC	-0.02
Spiked Amount 100.000			Recovery = 41.56%			
22) SURRNitrbenzened5	5.709	82	23918	56.69	%REC	0.00
Spiked Amount 100.000			Recovery = 56.69%			
44) SURR2Flbiphenyl	7.286	172	41349	63.16	%REC	0.00
Spiked Amount 100.000			Recovery = 63.16%			
62) SURR246Tribrphenl	8.249	330	10621	93.54	%REC	0.00
Spiked Amount 100.000			Recovery = 93.54%			
78) SURRTerphenyl-d14	9.392	244	35447	75.28	%REC	0.00
Spiked Amount 100.000			Recovery = 75.28%			
Target Compounds						Qvalue
2) Ntrsdimeth	2.825	74	11866	8.2658	ug/mL	92
3) Pyridine	2.865	79	13402	6.3494	ug/mL	94
5) Aniline	4.697	93	8624	2.8466	ug/mL	93
6) bis2Clethletr	4.754	93	25156	11.0959	ug/mL	99
8) Phenol	4.646	94	21917	8.6430	ug/mL	97
9) 2-Cl-phenol	4.837	128	21594	11.1515	ug/mL	99
10) 13Diclbenz	5.021	146	21687	10.3341	ug/mL	98
11) 14Diclbenz	5.112	146	21601	10.3273	ug/mL	98
12) 12Diclbenz	5.294	146	20269	10.6746	ug/mL	98
13) Benzyl alcoho	5.254	108	12397	10.4612	ug/mL	92
14) bis2clispreth	5.402	45	35609	11.2835	ug/mL	98
15) 2Methylphenol	5.377	107	17308	11.7375	ug/mL	97
16) Ntrspyrrol	5.519	100	11450	11.6265	ug/mL	94
17) Acetophenone	5.547	105	32988	13.1638	ug/mL	95
18) Hexaclethane	5.664	117	8055	10.2881	ug/mL	99
19) N-Ntrsdinprop	5.544	70	18717	11.9985	ug/mL	96
20) 3&4Methylphenol	5.547	107	21328	11.8611	ug/mL#	86
23) Nitrobenzene	5.729	77	26126	11.7985	ug/mL	96
24) Isophorone	5.970	82	47070	12.0648	ug/mL	97
25) 2-Nitrophenol	6.047	139	11060	11.7119	ug/mL	100
26) 24Dimthpheno	6.098	122	18436	11.9833	ug/mL	99
27) bis2clethoxym	6.186	93	27189	12.1815	ug/mL	98
28) 24Diclphenol	6.283	162	17063	13.1855	ug/mL	97
29) 124Triclbenz	6.357	180	16340	11.5357	ug/mL	97
30) Benzoic acid	6.166	122	11085	14.2638	ug/mL	94
31) Naphthalene	6.425	128	60176	11.7843	ug/mL	99
32) 4-Cl-aniline	6.479	127	10847	6.1947	ug/mL	99
33) 26Diclphenol	6.485	162	13327	13.7435	ug/mL	99
34) Hexaclprop	6.505	213	10423	12.3364	ug/mL	97
35) Hexaclbutdien	6.539	225	7508	11.1050	ug/mL	99
36) 4Cl3methylphe	6.900	107	24376	16.0609	ug/mL	98
37) 2Methylnaphth	7.008	142	42731	12.3457	ug/mL	98
38) 1Methylnaphth	7.084	141	35184	12.3608	ug/mL	98
40) Hxclcycpentdi	7.130	237	7922	11.2765	ug/mL	96

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\356624MS.D Vial: 37
Acq On : 21 Nov 2019 14:23 Operator: RPN
Sample : 166847,MSW356624, Inst : SVMS2
Misc : 360333,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 21 14:39:40 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

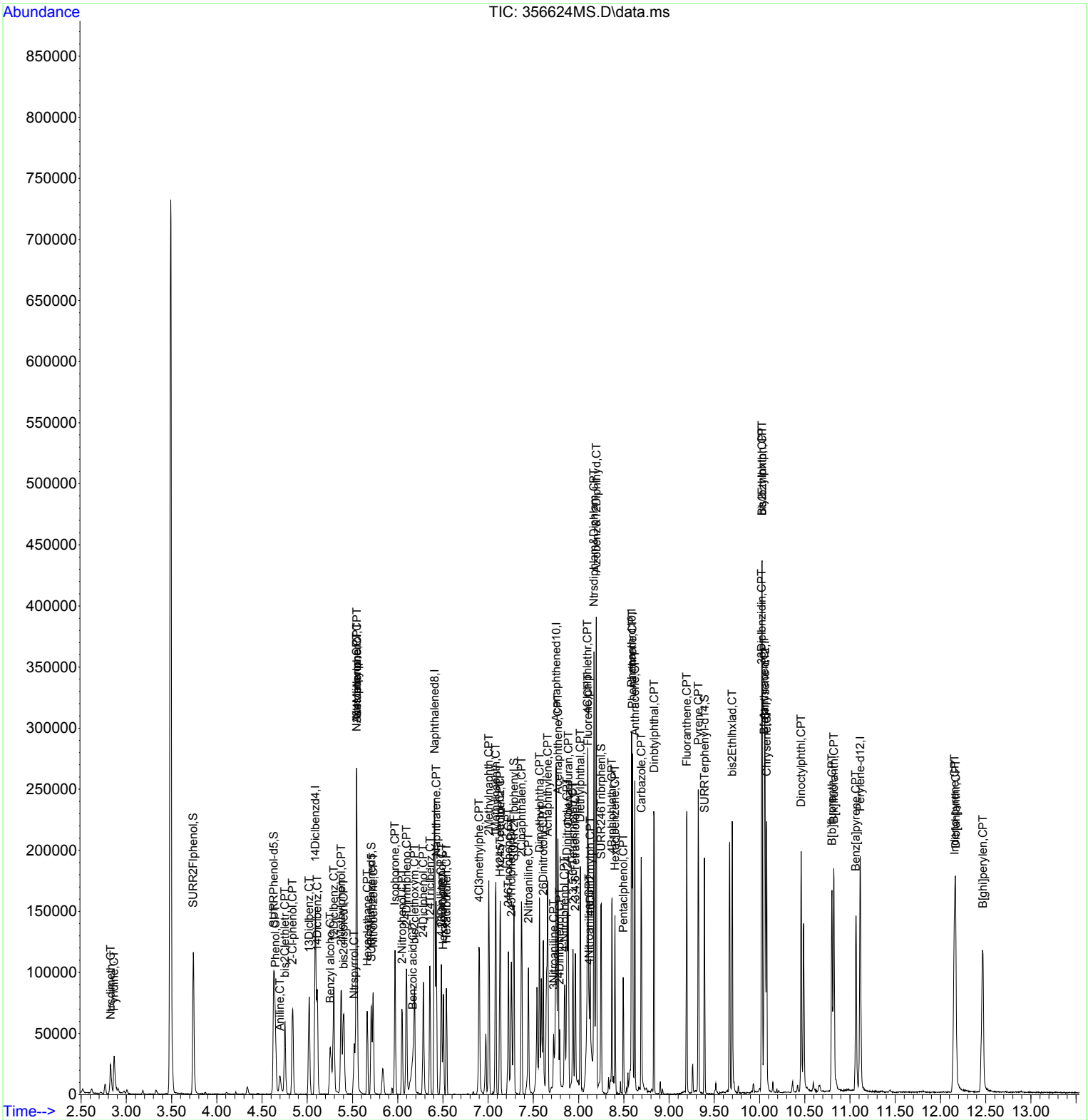
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1245Tetrclbenz	7.135	216	16700	13.3508 ug/mL	97
42) 246Triclpheno	7.223	196	13390	15.4734 ug/mL	98
43) 245Triclpheno	7.258	196	14271	16.5440 ug/mL	98
45) 2Clnaphthalen	7.368	162	37574	13.2197 ug/mL	97
46) 2Nitroaniline	7.445	65	18573	15.6600 ug/mL	98
47) Acnaphthylene	7.658	152	64469	14.1923 ug/mL	99
48) Dimethylphtha	7.567	163	42362	14.2632 ug/mL	99
49) 26Dinitrotolu	7.610	165	10681	14.8858 ug/mL	86
50) Acenaphthene	7.772	154	42547	14.1237 ug/mL	99
51) 3Nitroaniline	7.724	138	6730	8.9626 ug/mL	90
52) 24Dinitphenol	7.789	184	5479	14.7269 ug/mL	95
53) Dibenzofuran	7.886	168	59056	15.1943 ug/mL	98
54) 24Dinitrotolu	7.871	165	14492	15.8460 ug/mL	98
55) 4-Nitrophenol	7.843	65	8803	10.8116 ug/mL	89
56) 2,3,5,6-Tetrachlorop	7.937	232	12004	17.0359 ug/mL	95
57) 2,3,4,6-Tetrachlorop	7.965	232	10066	16.1241 ug/mL	97
58) Fluorene	8.104	166	49721	15.5619 ug/mL	98
59) 4Clphlphlethr	8.099	204	21558	14.6429 ug/mL	98
60) Diethylphthal	8.019	149	47521	15.1994 ug/mL	99
61) 4Nitroaniline	8.116	138	12449	15.9994 ug/mL	95
64) 46Dinit2mylph	8.127	198	7680	15.9407 ug/mL	87
65) Ntrsdiphlam&Diphlam	8.170	169	57724	32.5134 ug/mL	99
66) Azobenz&12Diphlhyd	8.195	182	28707	36.8706 ug/mL	100
67) 4Brphlphlethr	8.369	248	9462	15.9192 ug/mL	95
68) Hexaclbenzene	8.403	284	10162	17.1678 ug/mL	96
69) Pentaclphenol	8.494	266	5815	17.0096 ug/mL	98
70) Phenanthrene	8.596	178	66243	18.1269 ug/mL	100
71) Anthracene	8.621	178	55773	16.3345 ug/mL	99
72) Carbazole	8.693	167	48827	18.3615 ug/mL	99
73) Dinbtylphthal	8.835	149	65481	16.2676 ug/mL	99
74) Fluoranthene	9.195	202	59036	16.1943 ug/mL	97
77) Pyrene	9.323	202	63300	16.5672 ug/mL	99
79) Btylbzylphth	10.028	149	75559	28.5965 ug/mL	93
80) bis2Ethlhxlad	9.698	129	25143	14.7666 ug/mL	97
81) 33Diclbnzidin	10.022	252	9206	9.8921 ug/mL	96
82) B[a]anthracen	10.054	228	53377	15.9300 ug/mL	98
83) Chrysene	10.079	228	51826	15.8108 ug/mL	99
84) bis2Ethlhxlph	10.028	149	74566	28.5692 ug/mL	97
85) Dinoctylphthl	10.460	149	70932	14.5678 ug/mL	100
87) B[b]fluoranth	10.801	252	54779	14.5651 ug/mL	99
88) B[k]fluoranth	10.821	252	59770	16.1807 ug/mL	98
89) Benz[a]pyrene	11.065	252	55602	15.4287 ug/mL	99
90) Indeno-pyrene	12.156	276	77330	18.8884 ug/mL	100
91) Dib[ah]anthr	12.168	278	61049	18.6048 ug/mL	99
92) B[ghi]perylen	12.469	276	67034	18.7677 ug/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\356624MS.D Vial: 37
Acq On : 21 Nov 2019 14:23 Operator: RPN
Sample : 166847,MSW356624, Inst : SVMS2
Misc : 360333,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 21 14:39:40 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2MBW01.D Vial: 3
Acq On : 22 Nov 2019 12:52 Operator: RPN
Sample : 166715,MBW, Inst : SVMS2
Misc : 357990,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:29 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

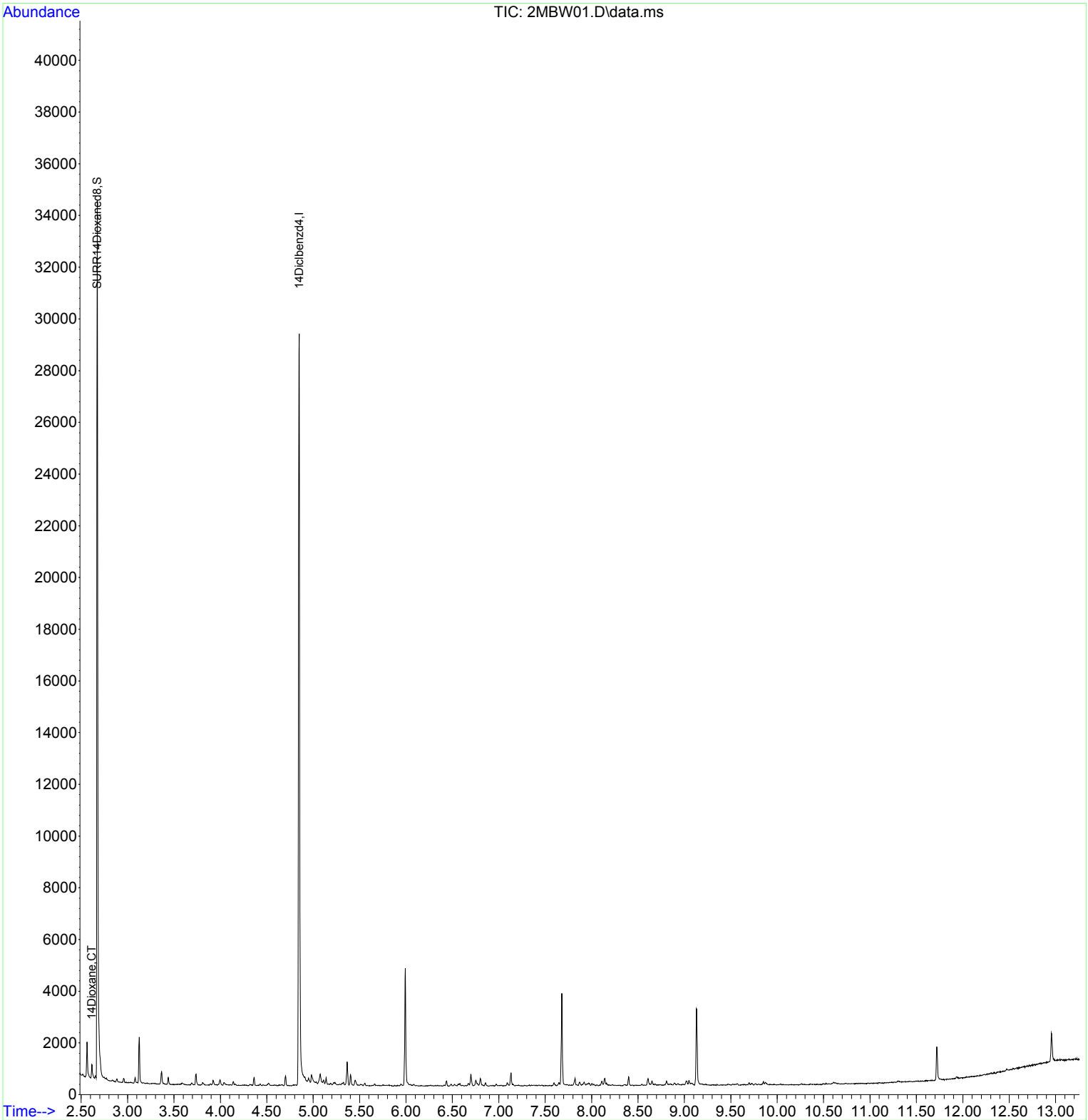
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.849	152	25920	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.673	64	11053	81.84	%REC	0.00
Spiked Amount 100.000			Recovery = 81.84%			
Target Compounds						Qvalue
3) 14Dioxane	2.615	58	425	0.0323	ug/mL#	38

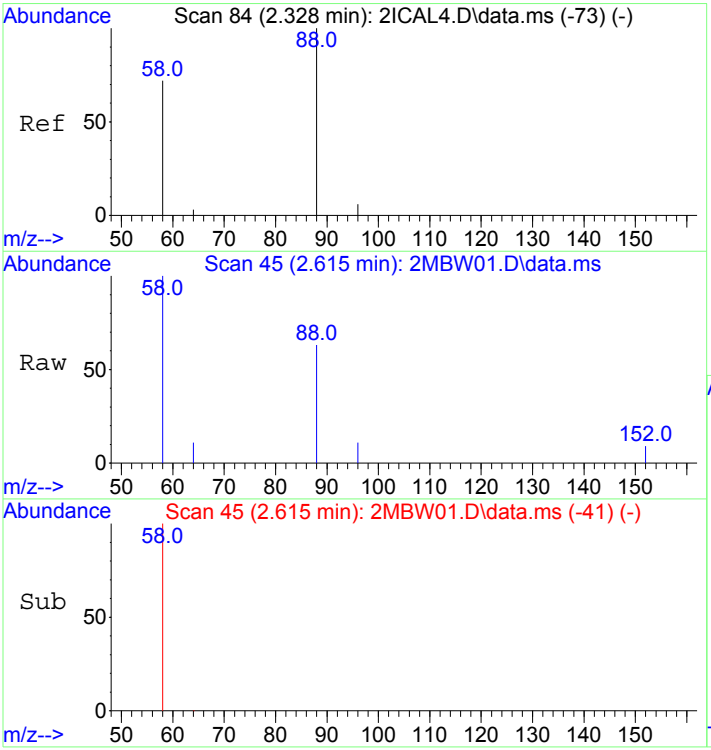
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2MBW01.D Vial: 3
Acq On : 22 Nov 2019 12:52 Operator: RPN
Sample : 166715,MBW, Inst : SVMS2
Misc : 357990,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:29 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

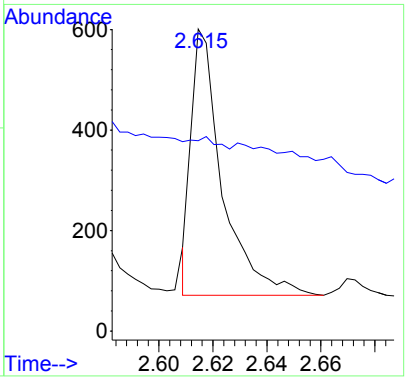




#3
14Dioxane
Concen: 0.03 ug/mL
RT: 2.615 min Scan# 45
Delta R.T. -0.087 min
Lab File: 2MBW01.D
Acq: 22 Nov 2019 12:52

Tgt Ion: 58 Resp: 425

Ion	Ratio	Lower	Upper
58	100		
88	57.6	100.1	160.1#



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2LCSW01.D Vial: 4
Acq On : 22 Nov 2019 13:12 Operator: RPN
Sample : 166715,LCSW, Inst : SVMS2
Misc : 357991,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:26 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

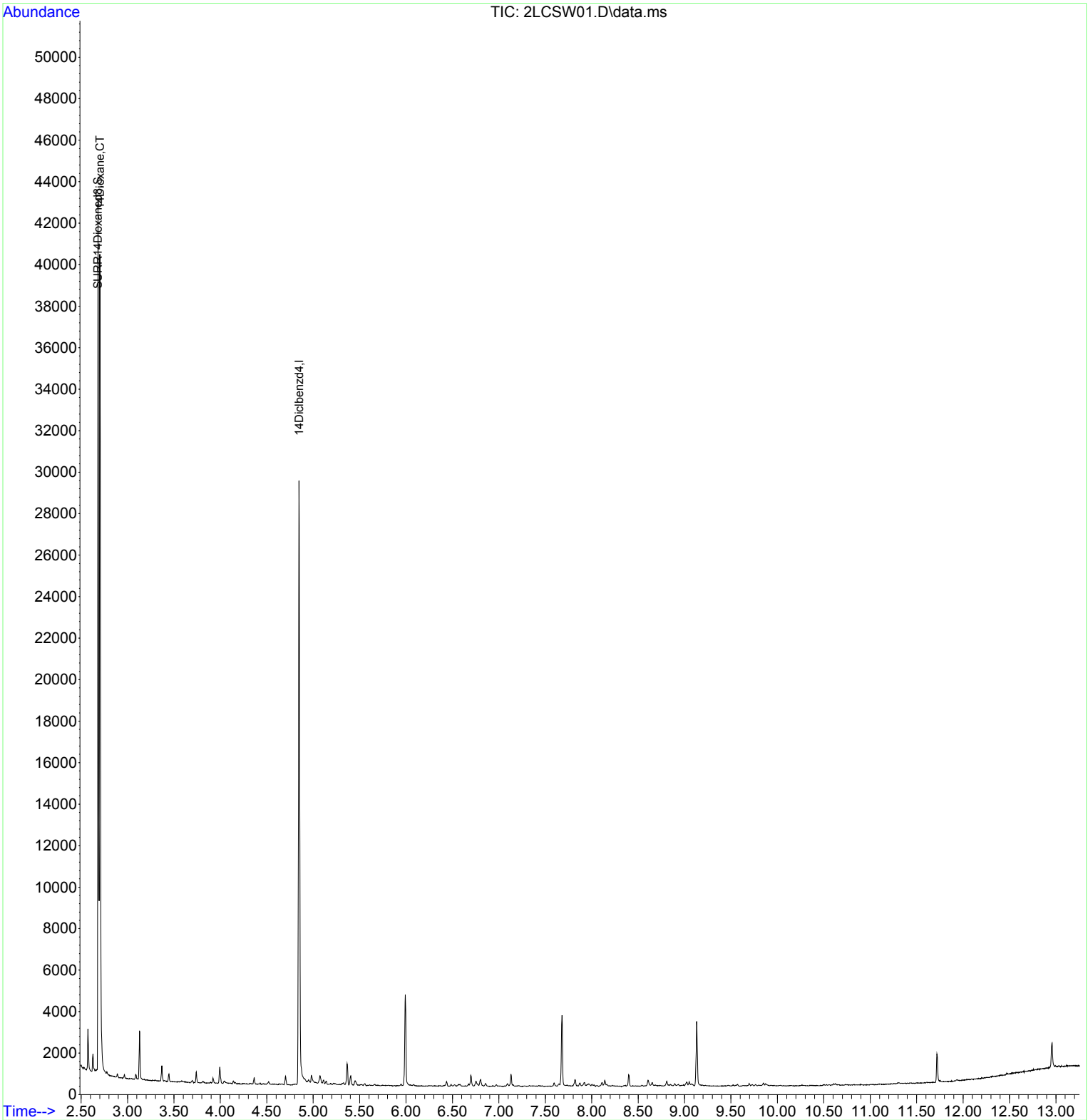
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	26495	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.681	64	11955	86.59	%REC	0.00
Spiked Amount 100.000			Recovery = 86.59%			
Target Compounds						Qvalue
3) 14Dioxane	2.702	58	12414	0.9235	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2LCSW01.D Vial: 4
Acq On : 22 Nov 2019 13:12 Operator: RPN
Sample : 166715,LCSW, Inst : SVMS2
Misc : 357991,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:26 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356227MS.D Vial: 13
Acq On : 22 Nov 2019 16:13 Operator: RPN
Sample : 166715,MSW356227, Inst : SVMS2
Misc : 357995,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:33:57 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

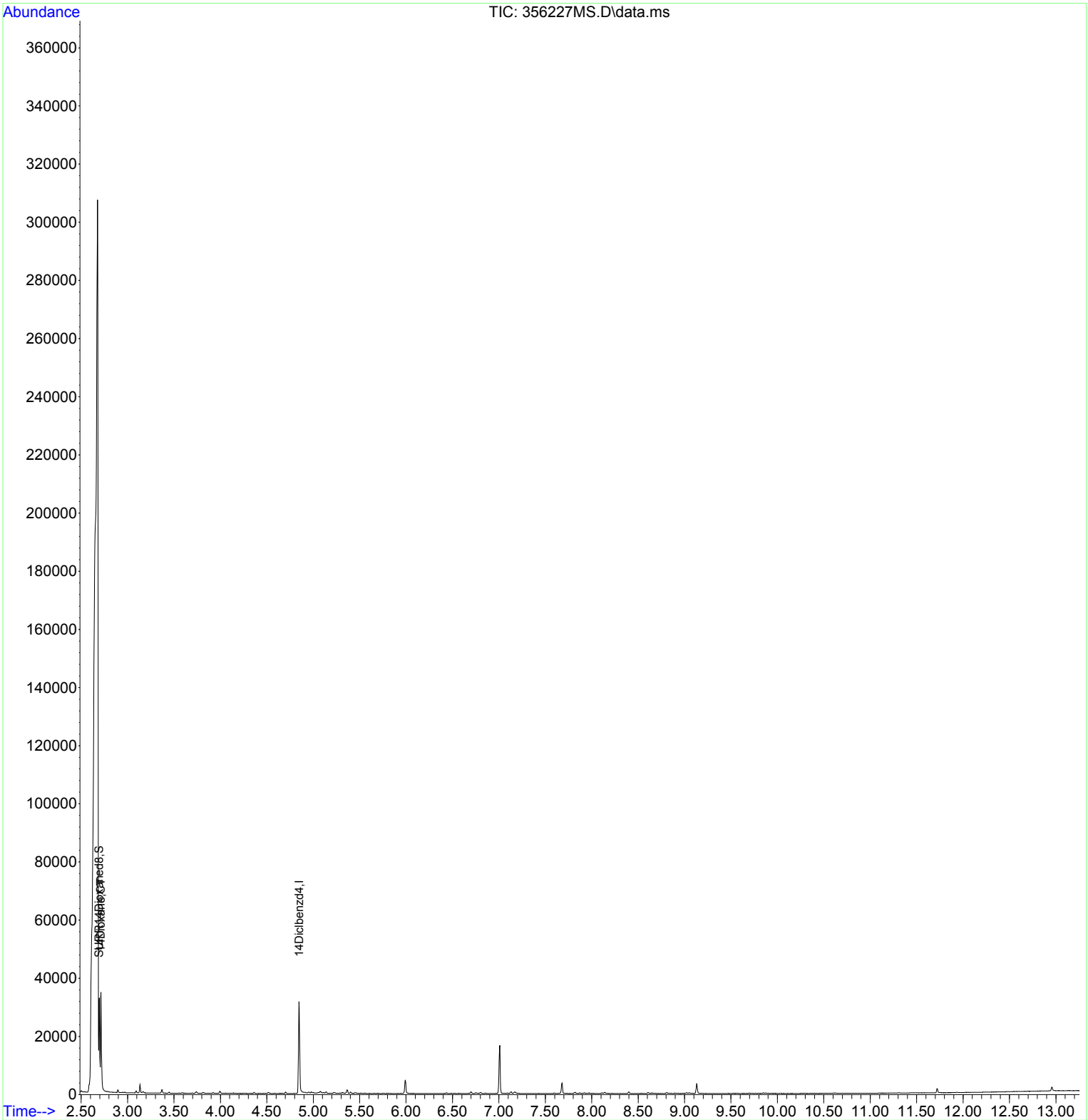
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	28336	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.693	64	8710	58.99	%REC	0.01
Spiked Amount 100.000			Recovery = 58.99%			
Target Compounds						Qvalue
3) 14Dioxane	2.710	58	10691	0.7437	ug/mL	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356227MS.D Vial: 13
Acq On : 22 Nov 2019 16:13 Operator: RPN
Sample : 166715,MSW356227, Inst : SVMS2
Misc : 357995,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:33:57 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356227SD.D Vial: 14
Acq On : 22 Nov 2019 16:33 Operator: RPN
Sample : 166715,MSDW356227, Inst : SVMS2
Misc : 357996,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:47 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

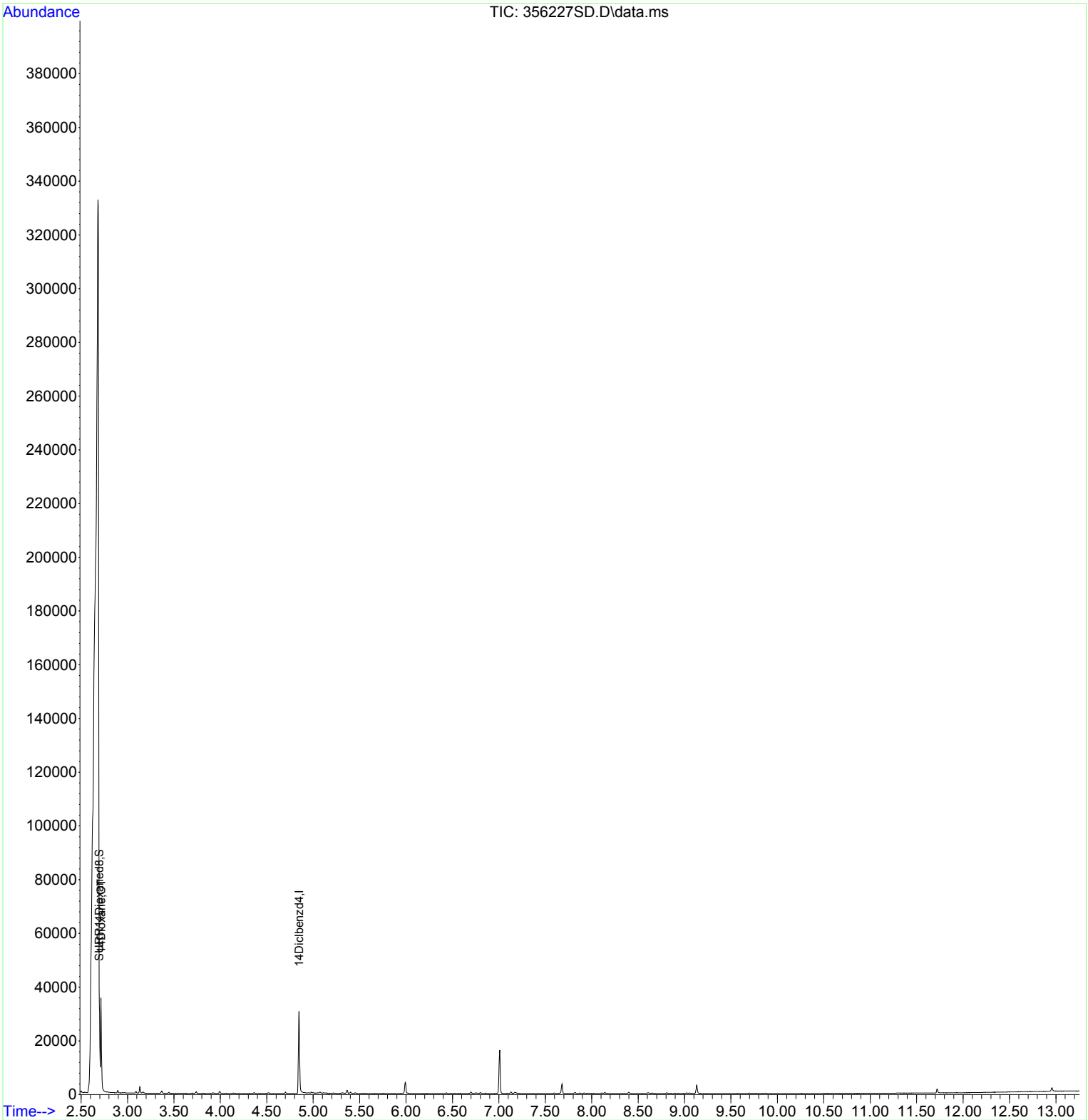
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 14Diclbenzd4	4.846	152	27742	1.00	ug/mL	0.00
System Monitoring Compounds						
2) SURR14Dioxaned8	2.696	64	7678	53.11	%REC	0.01
Spiked Amount 100.000			Recovery = 53.11%			
Target Compounds						Qvalue
3) 14Dioxane	2.713	58	9959	0.7076	ug/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356227SD.D Vial: 14
Acq On : 22 Nov 2019 16:33 Operator: RPN
Sample : 166715,MSDW356227, Inst : SVMS2
Misc : 357996,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:47 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



SEMI - VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

S SVOC 8270 WATER Analytical Run
166847 on 11/21/2019

Date Analyzed: _____ JJY Date Reviewed: _____

Date Entered: _____ 12/03/19 Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356218		11/07/2019 1030		HDR, INC	LONGHORN	SVOC 8270 QSM 5 TCLP		M	**4**	
		46ADPT-TCLP						74636			
149521	356624		11/07/2019 1700		MAXXAM ANALYTICS	USAFA	SVOC 8270 QSM 5 TCLP		M	**4**	
		ACADM-WW-001						74636			
149521	356626		11/07/2019 1700		MAXXAM ANALYTICS	USAFA	SVOC 8270 QSM 5 TCLP		M	**4**	
		ACADM-WS-001						74636			
	360330						SVOC 8270 QSM 5 TCLP				
				MBW				74636			
	360331						SVOC 8270 QSM 5 TCLP				
				LCSW				74636			
	360333		11/07/2019 1700				SVOC 8270 QSM 5 TCLP				
		ACADM-WW-001		MSW 356624				74636			

6 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 11/21/2019

Prep Batch **74,636** Date Prepped: 11/20/2019 Prepped By AJZ

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	360330	MBW		SVOC 8270 QSM 5	LIQUID	1.0		0.10		
	360331	LCSW		SVOC 8270 QSM 5	LIQUID	1.0		0.10		
149511	356218			SVOC 8270 QSM 5	TCLP	1.0		0.10	4	
149521	356624			SVOC 8270 QSM 5	TCLP	1.0		0.10	4	
	356626			SVOC 8270 QSM 5	TCLP	1.0		0.10	4	
	360333	MSW	356624	SVOC 8270 QSM 5	TCLP	1.0		0.10		

Notes:_____

Method 8270-SV GC/MS Extraction Bench Sheet

(SOP Reference #'s SV006 & SV007)

3510=WATER
3546=Microwave

Prep Batch #:	74636
Prep Method:	3510
Analyst:	AJZ
Date:	11/20/2019
Start Time:	14:00
End Date:	11/21/2019
End Time:	09:25

Matrix: TCLP
Balance Used: NA
Ave MW temp(°C): NA

Reagent Lots>>>

Sodium Sulfate	MISC0670
Diatomaceous Earth	NA
Dionex Solution	NA
Methylene Chloride	DX645
Acetone	NA
Sulfuric Acid	MISC0634
Sodium Hydroxide	MISC0633

Initial Concentration By: NA
Date: NA
GPC Cleanup? (yes/no): NA
Date: NA
Final Concentration By: JLH
Date: 11/21/2019

Microwave Cell #	Sample ID	Comments		(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Final Volume (mL)	ph Adj. <2 (Yes/No)	pH Adj. >12 (Yes/No)
	360330	MB			0.10	1.0	Y	Y
	360331	LCS			0.10	1.0	Y	Y
	356218				0.10	1.0	Y	Y
	356624				0.10	1.0	Y	**Y**
	356626				0.10	1.0	Y	Y
	SBLANK 3022				0.10	1.0	Y	Y
	VBLANK 3022				0.10	1.0	Y	Y
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
						1.0		
	360333	(MS)	Parent Sample		0.10	1.0	Y	Y
		(MSD)	356624			1.0		

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike & MSD=Matrix Spike Duplicate

MS/MSD/ LCS Spike Amount (mL): 1
Spike Concentration (µg/mL): 20
Spike Reference #: SVMS8521

Surrogate Spike Amount (mL): 1
Surrogate Spike Conc. (µg/mL): 20/40
Surrogate Spike Reference #: SVMS8523

Relinquished to: RPN
Date: 11/21/2019

Reviewed By: JJY
Date: 12/03/2019

8270 SVOC Analysis Data Review Checklist

Analytical Run #: 166847	**Independent Reviewer: JJY**
Sequence Date: 11/21/2019	**Date of Review: 11/22/2019**
Analyst/Data Interpreter: RPN	**Approval: Yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the initial calibration performed using a minimum of five standard concentration levels?	Lowest standard at or near MRL	X		X		
b. SPCC responses.	Avg. RRF ≥ 0.05	X		X		
c. Is the variation between calibration response factors for all concentration levels <15% RSD or $r^2 > 0.990$ for the regression line. RSD≤ 15%, ≤ 30% for CCCs.	RSD≤ 15%, ≤ 30% for CCCs	X		X		
d. Were the standards used for the ICAL uniquely identified?		X		X		
e. Was there a DFTPP standard analyzed prior to the ICAL?		X		X		
f. Was an instrument blank (IB) analyzed prior to the ICAL?		X		X		
g. Data reviewer: was the ICAL viewed on the data system (ChemStation) to verify that peaks are correctly identified?	Viewed on data system by 2nd analyst			X		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?	Second source	X		X		
b. Were the SPCC within QC limits	RRF ≥ 0.05	X		X		
c. Were the CCCs within QC limits	%D ≤ 20%	X		X		
d. Were the ICVs uniquely identified (i.e. Standard Number)?		X		X		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours.		X		X		
b. Were SPCC compounds acceptable?	RRF ≥ 0.050	X		X		
c. Were the CCCs compounds acceptable?	%D ≤ 20%	X		X		
d. Were the recoveries for the CCVs acceptable?	%D≤20%	X		X		
e. Was each CCV uniquely identified (i.e. Standard Number)?		X		X		

Additional Comments:

Analyzed for TCLP compounds.

8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. DFTPP						
a. Was a DFTPP tune check ran at the beginning of every twelve hour shift?		x		x		
b. Were the relative abundance criteria met?		x		x		
c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine?	Tailing <2%	x		x		
d. Was the breakdown of DDT to DDE and DDD less than 20%	Breakdown ≤20%	x		x		
5. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		x		x		
b. Were the MB results less than the reporting limit (RL)?	< MRL	x		x		See Below
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	x		x		
6. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		x		x		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits	x		x		
7. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	x		x		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits	x		x		
8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a frequency one per Prep Batch?	Batch <20 samples		x		x	tclp
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	na		x		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	na		x		

Additional Comments:

TCLP Vessel blank appeared to be contaminated. No hits for any tclp compounds.

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8270 SVOC Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		X		X		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?		X		X		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		X		X		
d. Were all samples extracted within holding times?	Waters extracted within 7days of collection, soils 14 days of collection	X		X		
e.Were all samples analyzed within 40 days of extracting?	Analysis within 40 days of extraction	X		X		
f. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC)	GPC, Acid/Base, Treatments		X		X	
g. Where all manual integratinons performed properly?		X		X		
h. Was the rational for the manual integration verified?		X		X		
10. RECORDS AND REPORTING						
a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file?		X		X		
b. Are all chromatograms dated and initialed?		X		X		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed?		X		X		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		X		X		
e. Is the ICAL method referenced on the Raw Data?		X		X		

Additional Comments:

Sequence Name: C:\INSTARCH\SEQUENCE\2S111919.s
Comment: 8270 ICAL
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S111919\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

JJY
12/03/19

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line			Sample Name/Misc Info
1)	Sample	100	2PRIM01 2S111919 PRIMER 40ug/mL
2)	DFTPP	1	2DFTP420 2DFTPP2 DFTPP TUNE SVMS8353
3)	Sample	99	2IB01 2S111919 InstrumentBlank
4)	Sample	2	2ICAL7 2S111919 ICAL 50ug/mL SVMS8532
5)	Sample	3	2ICAL6 2S111919 ICAL 40ug/mL SVMS8531
6)	Sample	4	2ICAL5 2S111919 ICAL 30ug/mL SVMS8530
7)	Sample	5	2ICAL4 2S111919 ICAL 20ug/mL SVMS8529
8)	Sample	6	2ICAL3 2S111919 ICAL 10ug/mL SVMS7528
9)	Sample	7	2ICAL2 2S111919 ICAL 5ug/mL SVMS8527
10)	Sample	8	2ICAL1 2S111919 ICAL 1ug/mL SVMS8526
11)	Sample	9	2ICV1 2S111919 ICV 20ug/mL SVMS8533
12)	Sample	10	2ICV2 2S111919 ICV 40ug/mL SVMS8534
13)	DFTPP	1	2DFTP421 2DFTPP2 DFTPP TUNE SVMS8353
14)	Sample	2	2CCV570 2S111919 CCV 20ug/mL SVMS8535
15)	Sample	3	2MBW01 2S111919 166610,MBW,
16)	Sample	4	2LCSW01 2S111919 166610,LCSW,
17)	Sample	5	354346 2S111919 166610,354346,
18)	Sample	6	354347 2S111919 166610,354347,
19)	Sample	7	354348 2S111919 166610,354348,
20)	Sample	8	354988 2S111919 166610,354988,
21)	Sample	9	354989 2S111919 166610,354989,
22)	Sample	10	354990 2S111919 166610,354990,
23)	Sample	11	354991 2S111919 166610,354991,
24)	Sample	12	354348MS 2S111919 166610,MSW354348,
25)	Sample	13	354348SD 2S111919 166610,MSDW354348,
26)	Sample	14	2MBW02 2S111919 166393,MBW,
27)	Sample	15	2LCSW02 2S111919 166393,LCSW,
28)	Sample	16	351102 2S111919 166393,351102,
29)	Sample	17	351122 2S111919 166393,351122,
30)	Sample	18	351129 2S111919 166393,351129,
31)	Sample	19	353388 2S111919 166393,353388,
32)	Sample	20	353389 2S111919 166393,353389,
33)	Sample	21	351102MS 2S111919 166393,MSW351102,
34)	Sample	22	351102SD 2S111919 166393,MSDW351102,
35)	Sample	2	2CCV571 2S111919 CCV 20ug/mL SVMS8535
36)	Sample	23	358002 2S111919 166614,358002,
37)	Sample	24	358003MS 2S111919 166614,MSW358002,
38)	Sample	25	358003SD 2S111919 166614,MSDW358002,
39)	Sample	26	353215 2S111919 166408,353215,
40)	Sample	27	353215MS 2S111919 166408,MSW353215,
41)	Sample	28	353215SD 2S111919 166408,MSDW353215,
42)	Sample	29	351268D 2S111919 166408,351268,10,
43)	Sample	30	354996D 2S111919 166614,354996,10,

Sequence Name: C:\INSTARCH\SEQUENCE\2S112019.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S112019\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

JJY
12/03/19

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line			Sample Name/Misc Info		
1)	Sample	100	2PRIM01	2S111919	PRIMER 40ug/mL
2)	DFTPP	1	2DFTP422	2DFTPP2	DFTPP TUNE SVMS8353
3)	Sample	2	2CCV572	2S111919	CCV 20ug/mL SVMS8535
4)	Sample	3	2MBW01	2S111919	166802,MBW,
5)	Sample	4	2LCSW01	2S111919	166802,LCSW,
6)	Sample	5	353389	2S111919	166393,353389,50
7)	Sample	6	357029	2S111919	166802,357029,
8)	Sample	7	357030	2S111919	166802,357030,
9)	Sample	8	357031	2S111919	166802,357031,
10)	Sample	9	357032	2S111919	166802,357032,
11)	Sample	10	357033	2S111919	166802,357033,
12)	Sample	11	357034	2S111919	166802,357034,
13)	Sample	12	357035	2S111919	166802,357035,
14)	Sample	13	357036	2S111919	166802,357036,
15)	Sample	14	357037	2S111919	166802,357037,
16)	Sample	15	357038	2S111919	166802,357038,
17)	Sample	16	357041	2S111919	166802,357041,
18)	Sample	17	357032MS	2S111919	166802,MSW357032,
19)	Sample	18	357032SD	2S111919	166802,MSDW357032,
20)	Sample	19	2MBW02	2S111919	166805,MBW,
21)	Sample	20	2LCSW02	2S111919	166805,LCSW,
22)	Sample	21	2LCSDW02	2S111919	166805,LCSDW,
23)	Sample	22	358011	2S111919	166805,358011,
24)	Sample	23	358012	2S111919	166805,358012,
25)	Sample	24	358013	2S111919	166805,358013,
26)	Sample	25	358014	2S111919	166805,358014,
27)	Sample	26	358015	2S111919	166805,358015,
28)	DFTPP	1	2DFTP423	2DFTPP2	DFTPP TUNE SVMS8353
29)	Sample	2	2CCV573	2S111919	CCV 20ug/mL SVMS8535
30)	Sample	27	358016	2S111919	166805,358016,
31)	Sample	28	358019	2S111919	166805,358019,
32)	Sample	29	358022	2S111919	166805,358022,
33)	Sample	30	2MBW02	2S111919	166847,MBW,
34)	Sample	31	2MBTV02	2S111919	166847,MBTV,
35)	Sample	32	2MBTS02	2S111919	166847,MBTS,
36)	Sample	33	2LCSW02	2S111919	166847,LCSW,
37)	Sample	34	356218	2S111919	166847,356218,
38)	Sample	35	356624	2S111919	166847,356624,
39)	Sample	36	356626	2S111919	166847,356626,
40)	Sample	37	356624MS	2S111919	166847,MSW356624,
41)	Sample	2	2CCV574	2S111919	CCV 20ug/mL SVMS8535

SVOC 8270 1,4-Dioxane QSM 5 Analytical Run
166715 on 11/18/2019

Date Analyzed: _____ JJY 12/03/19 Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356214		11/07/2019 0720		HDR, INC	LONGHORN	SVOC 8270 1,4-Dioxane QSM 5		GW	4	
		DPT-001						74516			
149511	356215		11/07/2019 0800		HDR, INC	LONGHORN	SVOC 8270 1,4-Dioxane QSM 5		GW	4	
		DPT-005						74516			
149511	356217		11/07/2019 0840		HDR, INC	LONGHORN	SVOC 8270 1,4-Dioxane QSM 5		GW	4	
		DPT-010						74516			
149511	356222		11/07/2019 1525		HDR, INC	LONGHORN	SVOC 8270 1,4-Dioxane QSM 5		GW	4	
		47WW09						74516			
149511	356223		11/08/2019 0700		HDR, INC	LONGHORN	SVOC 8270 1,4-Dioxane QSM 5		GW	4	
		EB-003						74516			
149511	356226		11/08/2019 0830		HDR, INC	LONGHORN	SVOC 8270 1,4-Dioxane QSM 5		GW	4	
		DUP-006						74516			
149511	356227		11/08/2019 1040		HDR, INC	LONGHORN	SVOC 8270 1,4-Dioxane QSM 5		GW	4	
		47WW25R-35		Designated MS/MSD				74516			
149511	356228		11/08/2019 1130		HDR, INC	LONGHORN	SVOC 8270 1,4-Dioxane QSM 5		GW	4	
		47WW25R-38						74516			
	357990						SVOC 8270 1,4-Dioxane QSM 5				
				MBW				74516			
	357991						SVOC 8270 1,4-Dioxane QSM 5				
				LCSW				74516			
	357995		11/08/2019 1040				SVOC 8270 1,4-Dioxane QSM 5				
		47WW25R-35		MSW 356227				74516			
	357996		11/08/2019 1040				SVOC 8270 1,4-Dioxane QSM 5				
		47WW25R-35		MSDW 357995				74516			

12 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 11/18/2019

Prep Batch **74,516** Date Prepped: 11/14/2019 Prepped By AJZ

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	357990	MBW		SVOC 8270 1,4-Dioxane	LIQUID	10.0		0.50		
	357991	LCSW		SVOC 8270 1,4-Dioxane	LIQUID	10.0		0.50		
149511	356214			SVOC 8270 1,4-Dioxane	GROUND WATER	10.0		0.50	4	
	356215			SVOC 8270 1,4-Dioxane	GROUND WATER	10.0		0.50	4	
	356217			SVOC 8270 1,4-Dioxane	GROUND WATER	10.0		0.50	4	
	356222			SVOC 8270 1,4-Dioxane	GROUND WATER	10.0		0.50	4	
	356223			SVOC 8270 1,4-Dioxane	GROUND WATER	10.0		0.50	4	
	356226			SVOC 8270 1,4-Dioxane	GROUND WATER	10.0		0.50	4	
	356227	sample designated for QC		SVOC 8270 1,4-Dioxane	GROUND WATER	10.0		0.50	4	
	356228			SVOC 8270 1,4-Dioxane	GROUND WATER	10.0		0.50	4	
	357995	MSW	356227	SVOC 8270 1,4-Dioxane	GROUND WATER	10.0		0.50		
	357996	MSDW	357995	SVOC 8270 1,4-Dioxane	GROUND WATER	10.0		0.50		

Notes:_____

Method 8270-SV GC/MS Extraction Bench Sheet

(SOP Reference #'s SV006 & SV007

3510=WATER
3545=PFE or 3546=Microwave >>
(PFE=Pressurized Fluid Extraction)

Prep Batch #:	74516
Prep Method:	3535
Analyst:	AJZ
Date:	11/14/2019
Start Time:	08:00
End Date:	11/18/2019
End Time:	17:45

Matrix: Water
Balance Used: NA
Ave MW temp(°C): NA

Reagent Lots>>>

Sodium Sulfate	MISC0670
Diatomaceous Earth	NA
Dionex Solution	NA
Methylene Chloride	DX422
Acetone	NA
Sulfuric Acid	MISC0634
Sodium Hydroxide	NA

Initial Concentration By: NA
Date: NA
GPC Cleanup? (yes/no): NO
Date: NA
Final Concentration By: NA
Date: NA

Microwave Cell #	Sample ID	Comments	(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Final Volume (ml)	ph Adj. <2 (Yes/No)	pH Adj. >12 Yes/No)
	357990	(MB)		0.50	10.0	Y	N
	357991	LCS		0.50	10.0	Y	N
	356214			0.50	10.0	Y	N
	356215			0.50	10	Y	N
	356217			0.50	10.0	Y	N
	356222			0.50	10.0	Y	N
	356223			0.50	10.0	Y	N
	356226			0.50	10.0	Y	N
	356227			0.50	10.0	Y	N
	356228			0.50	10.0	Y	N
		SPE on Dionex Autotrace 280					
		Cartridges: S4104					
	357995	(MS) Parent Sample		0.50	10.0	Y	N
	357996	(MSD) 356227		0.50	10.0	Y	N

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike & MSD=Matrix Spike Duplicate

MS/MSD/ LCS Spike Amount (ml): 1
Spike Concentration (ug/mL): 10
Spike Reference #: SVMS8522

Surrogate Spike Amount (ml): 1
Surrogate Spike Conc. (ug/mL): 10
Surrogate Spike Reference #: SVMS8421

Relinquished to: RPN
Date: 11/18/2019

Reviewed By: JJY
Date: 12/03/2019

8270 SIM Analysis Data Review Checklist

Analytical Run #: 166715		**Independent Reviewer: JJY**	
Sequence Date: 11/22/2019		**Date of Review: 11/25/2019**	
Analyst/Data Interpreter: RPN		**Approval: Yes**	

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments-explain each "no" response (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
INITIAL CALIBRATION (ICAL)						
Was the initial calibration performed using a minimum of five standard concentration levels (six levels for non-linear calibration)?	Lowest standard at or near MRL	x		x		
Were the standards used for the ICAL uniquely identified?	standard number	x		x		
Was there a DFTPP standard analyzed prior to the ICAL? (see DFTPP section below for acceptable tune criteria)		x		x		
Was an instrument blank analyzed prior to the ICAL?		x		x		
Were linearity acceptance criteria met for all surrogates and analytes of interest? Note: QSM 5.1 does not allow non-linear (quadratic) calibration.	RSD≤ 20%, linear least squares regression r^2>0.990, non-linear r^2>0.990.	x		x		
INITIAL CALIBRATION VERIFICATION (ICV)						
Was there a second source ICV for all target analytes analyzed after the initial calibration and prior to analysis of any samples? Note: If non-linear calibration is used, then it will be necessary to run ICVs at two different concentrations.	Second source	x		x		
Was each ICV uniquely identified?	standard number	x		x		
Was the recovery for each analyte within QC limits?	± 20%, unless otherwise specified by project/client/program	x		x		
CONTINUING CALIBRATION VERIFICATION (CCV)						
Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours? Note: QSM 5.0 and above also requires a CCV at the end of the analytical batch.	Concentration ≤ concentration of the mid-point ICAL standard	x		x		
Was each CCV uniquely identified?	standard number	x		x		
Was the recovery for each analyte within QC limits?	± 20%, unless otherwise specified by project/client/program Ending CCV (if applicable) ± 50%	x		x		

Additional Comments:

8270 SIM Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments-explain each "no" response (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
DFTPP						
Was a DFTPP tune check ran at the beginning of every sequence and after every 12 hours?		X		X		
Were the relative abundance criteria met?		X		X		
Was the peak tailing acceptable for Pentachlorophenol and Benzidine?	Tailing Factor < 2	X		X		
Was the breakdown of DDT to DDD and DDE acceptable?	≤ 20%	X		X		
BLANKS						
Was method blank (MB) analyzed prior to the analysis of samples?		X		X		
Did MB results meet the required criteria?	QSM-the greater of the following: < 1/2 RL, < 1/10 amount in sample, or < 1/10 regulatory limit Non-QSM: < MDL, < 5% amount in sample, or < 5% regulatory limit	X		X		
Was a MB prepped and analyzed at a frequency of one per prep batch?	Batch ≤ 20 samples	X		X		
LABORATORY CONTROL SAMPLE (LCS)						
Was an LCS analyzed at a frequency of one per prep batch?	Batch ≤ 20 samples	X		X		
Were the LCS recoveries within the acceptance criteria?	For QSM: Use Appendix C limits when available; All others, use in-house or client-specified limits	X		X		
MATRIX SPIKES						
Was a matrix spike (MS) sample analyzed at a frequency one per prep batch?	Batch ≤ 20 samples	X		X		
Were MS recoveries in each MS within the acceptance criteria?	For QSM: Use Appendix C limits when available; All others, use in-house or client-specified limits	X		X		

Additional Comments:

CT Laboratories
Organic Laboratory Section

Analytical Run #: 166715

8270 SIM Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments-explain each "no" response (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
Were duplicate spikes (MSD/LCSD) analyzed at a frequency one per prep batch?	Batch ≤ 20 samples	x		x		
Were MSD or LCSD recoveries within the acceptance criteria?	QSM Use Appendix C limits when available, else use in-house or client-specified limits	x		x		
Is the relative percent difference (RPD) for each analyte between the MS/MSD or LCS/LCSD within the acceptance criteria?	QSM 4.2 ≤ 30%; QSM 5.0 ≤ 20%; QSM 5.1 ≤ 40%; Non-QSM use in-house or client-specified limits	x		x		
SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		x		x		
Were the appropriate surrogates used?	PAH vs. non-PAH	x		x		
For QSM 5.1 PAH analysis, was the minimum RRF met for each surrogate?	RRF ≥ 0.40	na		na		
Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?	QSM 5.1 PAH 50-150%; Other QSM use Appendix C limits; else use in-house or client-specified limits		x		x	See Below
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		x		x		
Were all samples extracted within holding times and analyzed within hold time?	Analysis within 40 days of extraction	x		x		
Did the samples require additional cleanup steps? (i.e. GPC or sulfur cleanup)	GPC, Sulfur cleanup		x		x	
RECORDS AND REPORTING						
Have all data files and relative QC forms been pdf'd?		x		x		
Do all chromatograms contain analysis date, time, and analyst initials?		x		x		
Are results exceding acceptance criteria qualified and recorded in the NCR?		x		x		
Do the raw reports match the LIMS data?		x		x		
Is the ICAL method referenced on the raw data?		x		x		

Additional Comments:

Surrogate 1,4-dioxane-d8 had contamination in samples. The primary ion for the surrogate was changed from 96 to 64 and requanted. Low recovery of surrogate in samples 356226 and 356228. "S".

Sequence Name: C:\INSTARCH\SEQUENCE\2S112119.s
Comment: 8270 SIM 14 DIOXANE
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S112119\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

JJY
12/03/19

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line			Sample Name/Misc Info
1)	Sample	100	2PRIME01 2DIOXN07 PRIME 10 ug/ml
2)	DFTPP	1	2DFTP424 2DFTDIOX DFTPP TUNE SVMS8353
3)	Sample	2	2IB01 2DIOXN07 Instrument blank
4)	Sample	99	2IB02 2DIOXN07 Instrument blank
5)	Sample	2	2ICAL1 2DIOXN07 ICAL 0.1 ug/ml SVMS8543
6)	Sample	3	2ICAL2 2DIOXN07 ICAL 0.2 ug/ml SVMS8544
7)	Sample	4	2ICAL3 2DIOXN07 ICAL 0.5 ug/ml SVMS8545
8)	Sample	5	2ICAL4 2DIOXN07 ICAL 1.0 ug/ml SVMS8546
9)	Sample	6	2ICAL5 2DIOXN07 ICAL 1.5 ug/ml SVMS8547
10)	Sample	7	2ICAL6 2DIOXN07 ICAL 2.0 ug/ml SVMS8548
11)	Sample	8	2ICAL7 2DIOXN07 ICAL 2.5 ug/ml SVMS8549
12)	Sample	9	2ICV1 2DIOXN07 ICV 1.0 ug/ml SVMS8550
13)	Sample	10	2ICV2 2DIOXN07 ICV 2.0 ug/ml SVMS8551
14)	Sample	99	2IB03 2DIOXN07 Instrument blank
15)	DFTPP	1	2DFTP425 2DFTDIOX DFTPP TUNE SVMS8353
16)	DFTPP	1	2DFTP426 2DFTDIOX DFTPP TUNE SVMS8353
17)	Sample	3	2ICAL2R 2DIOXN07 ICAL 0.2 ug/ml SVMS8544
18)	Sample	4	2ICAL3R 2DIOXN07 ICAL 0.5 ug/ml SVMS8545
19)	Sample	9	2ICV1R 2DIOXN07 ICV 1.0 ug/ml SVMS8550

Sequence Name: C:\INSTARCH\SEQUENCE\2S112219.s
Comment: 8270 SIM 14 DIOXANE
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S112219\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

JJY
12/03/19

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line		Sample Name/Misc Info	
1)	DFTPP	1	2DFTP427 2DFTDIOX DFTPP TUNE SVMS8353
2)	Sample	2	2CCV575 2DIOXN07 ICAL 1.0 ug/ml SVMS8552
3)	Sample	3	2MBW01 2DIOXN07 166715,MBW,
4)	Sample	4	2LCSW01 2DIOXN07 166715,LCSW,
5)	Sample	5	356214 2DIOXN07 166715,356214,
6)	Sample	6	356215 2DIOXN07 166715,356215,
7)	Sample	7	356217 2DIOXN07 166715,356217,
8)	Sample	8	356222 2DIOXN07 166715,356222,
9)	Sample	9	356223 2DIOXN07 166715,356223,
10)	Sample	10	356226 2DIOXN07 166715,356226,
11)	Sample	11	356227 2DIOXN07 166715,356227,
12)	Sample	12	356228 2DIOXN07 166715,356228,
13)	Sample	13	356227MS 2DIOXN07 166715,MSW356227,
14)	Sample	14	356227SD 2DIOXN07 166715,MSDW356227,
15)	DFTPP	1	2DFTP428 2DFTDIOX DFTPP TUNE SVMS8353
16)	Sample	2	2CCV576 2DIOXN07 ICAL 1.0 ug/ml SVMS8552
17)	Sample	15	2MBW02 2DIOXN07 166941,MBW,
18)	Sample	16	2LCSW02 2DIOXN07 166941,LCSW,
19)	Sample	17	2LCSDW02 2DIOXN07 166941,LCSDW,
20)	Sample	18	358578 2DIOXN07 166941,358578,
21)	Sample	19	358579 2DIOXN07 166941,358579,
22)	Sample	20	2MBW03 2DIOXN07 166939,MBW,
23)	Sample	21	2LCSW04 2DIOXN07 166939,LCSW,
24)	Sample	22	358555 2DIOXN07 166939,358555
25)	Sample	23	358557 2DIOXN07 166939,358557
26)	Sample	24	358558 2DIOXN07 166939,358558
27)	Sample	25	358559 2DIOXN07 166939,358559
28)	Sample	26	358560 2DIOXN07 166939,358560
29)	Sample	27	358561 2DIOXN07 166939,358561
30)	Sample	28	358562 2DIOXN07 166939,358562
31)	Sample	29	358564 2DIOXN07 166939,358564
32)	Sample	30	358565 2DIOXN07 166939,358565
33)	Sample	31	358566 2DIOXN07 166939,358566
34)	Sample	32	358567 2DIOXN07 166939,358567
35)	Sample	33	358568 2DIOXN07 166939,358568
36)	Sample	34	358569 2DIOXN07 166939,358569
37)	Sample	35	358570 2DIOXN07 166939,358570
38)	Sample	36	358571 2DIOXN07 166939,358571
39)	Sample	37	358572 2DIOXN07 166939,358572
40)	Sample	38	358574 2DIOXN07 166939,358574
41)	Sample	39	358575 2DIOXN07 166939,358575
42)	Sample	40	358576 2DIOXN07 166939,358576
43)	Sample	41	358577 2DIOXN07 166939,358577

Sequence Name: C:\INSTARCH\SEQUENCE\2S112219.s

	Line	Type	Vial	DataFile	Method	Sample Name
44)		Sample	42	358572MS	2DIOXN07	166939,MSW358572
45)		Sample	43	358572SD	2DIOXN07	166939,MSDW358573
46)		Sample	2	2CCV577	2DIOXN07	ICAL 1.0 ug/ml SVMS8552

JJY
12/03/19

SVOC Logbook-02
Semi-Volatiles Prep Logbook
Logbook Created: 04/10/18

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Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8353	DFTPP TUNING MIX	Methylene chloride ChemPure lot DV482-US	JJY	05/20/2019	11/20/2019

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4076	1000	ug/ml	500	10	50

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8354	DFTPP TUNING MIX	Methylene chloride ChemPure lot DV482-US	JJY	05/20/2019	11/20/2019

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4076	1000	ug/ml	250	10	25

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Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8421	8270 1,4-Dioxane Surrogate	Methanol ChemPure DT743	RPN	08/12/19	02/12/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4060	10000	ug/mL	50	50	10

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SVOC Logbook_03
Semi-Volatiles Standard Prep Logbook
Issued 08/07/2019

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Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8521	8270 Spike (No Addls)	Acetone ChemPure DU033-US	RPN	11/14/19	05/14/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4064B	2000	ug/mL	100	10	20
S4155B	1000	ug/mL	200	10	20
S4081	2000	ug/ml	100	10	20

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8522	8270 1,4-Dioxane Spike	Methanol ChemPure DR840	RPN	11/14/19	05/14/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4059	1000	ug/mL	250	50	10

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SVOC Logbook_03
Semi-Volatiles Standard Prep Logbook
Issued 08/07/2019

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Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8523	8270 Surrogates standard	Acetone ChemPure DV033-US	RPN	11/18/19	05/18/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4083D	5000	µg/mL	1000	250	40
S4084D	10000	µg/mL	1000	250	20

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8524	8270 ICAL Intermediate Standard	Methylene Chloride ChemPure DV482-US	RPN	11/18/19	05/18/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4155B	1000	µg/mL	1000	10	100
S4088C	2000	µg/mL	500	10	100
S4165A	2000	µg/mL	500	10	100
S4166A	5000	µg/mL	200	10	100
S4167A	10000	µg/mL	100	10	100

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8525	8270 ICV Intermediate Standard	Methylene Chloride ChemPure DV482-US	RPN	11/18/19	05/18/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4081	2000	µg/mL	250	5	100
S4178A	2000	µg/mL	250	5	100
S4166A	5000	µg/mL	100	5	100

S4166A	5000	µg/mL	100	5	100
S4167A	10000	µg/mL	50	5	100

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SVOC Logbook_03
Semi-Volatiles Standard Prep Logbook
Issued 08/07/2019

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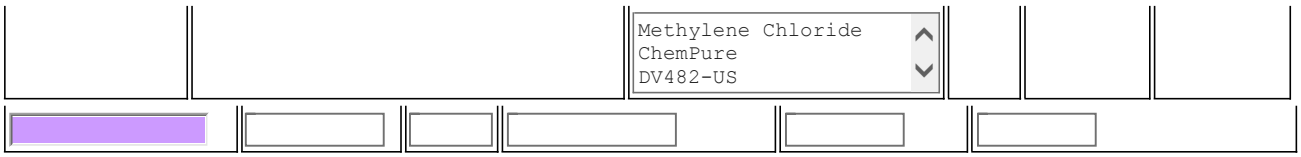
	Initial Calibration	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
	8270 ICAL Standards	Methylene Chloride ChemPure DV482-US	RPN	11/19/19	05/19/20

Standard Number	Standard Description	Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
SVMS8526	ICAL 1	SVMS8524	100	µg/mL	0.005	0.5	1
SVMS8527	ICAL 2	SVMS8524	100	µg/mL	0.025	0.5	5
SVMS8528	ICAL 3	SVMS8524	100	µg/mL	0.050	0.5	10
SVMS8529	ICAL 4	SVMS8524	100	µg/mL	0.100	0.5	20
SVMS8530	ICAL 5	SVMS8524	100	µg/mL	0.150	0.5	30
SVMS8531	ICAL 6	SVMS8524	100	µg/mL	0.200	0.5	40
SVMS8532	ICAL 7	SVMS8524	100	µg/mL	0.250	0.5	50
SVMS8533	ICV1	SVMS8525	100	µg/mL	0.100	0.5	20
SVMS8534	ICV2	SVMS8525	100	µg/mL	0.200	0.5	40
SVMS8535	CCV	SVMS8524	100	µg/mL	0.100	0.5	20
SVMS		SVMS					
SVMS		SVMS					
SVMS		SVMS					

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8536	SIM IS 100µg/mL	Methylene Chloride ChemPure DV482-US	RPN	11/19/19	05/19/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4170A	2000	µg/mL	50	1	100

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8537	SIM PAH IS 40µg/mL		RPN	11/19/19	05/19/20



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SVOC Logbook_03
Semi-Volatiles Standard Prep Logbook
Issued 08/07/2019

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Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8538	DFTPP Tuning Mix	Methylene Chloride ChemPure DV482-US	RPN	11/20/19	05/20/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4168	1000	µg/mL	500	10	50

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8539	DFTPP Tuning Mix	Methylene Chloride ChemPure DV482-US	RPN	11/20/19	05/20/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4076	1000	µg/mL	250	10	25

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8540	8270 1,4-Dioxane-d8 Surrogate	Methylene Chloride ChemPure DV482-US	RPN	11/20/19	05/20/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4060	10000	µg/mL	50	50	10

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Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8541	8270 1,4-dioxane I CAL Stock	Methylene Chloride ChemPure DV482-US	RPN	11/21/19	05/01/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4059	1000	µg/mL	100	10	10
S4060	10000	µg/mL	10	10	10

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8542	8270 1,4-dioxane ICV Stock	Methylene Chloride ChemPure DV482-US	RPN	11/21/19	05/01/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4058	2000	µg/mL	50	10	10
S4060	10000	µg/mL	10	10	10

Standard Number	Standard Description	Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
SVMS8543	ICAL 1	SVMS8541	10	µg/mL	0.010	1	0.1
SVMS8544	ICAL 2	SVMS8541	10	µg/mL	0.020	1	0.2
SVMS8545	ICAL 3	SVMS8541	10	µg/mL	0.050	1	0.5
SVMS8546	ICAL 4	SVMS8541	10	µg/mL	0.100	1	1.0
SVMS8547	ICAL 5	SVMS8541	10	µg/mL	0.150	1	1.5
SVMS8548	ICAL 6	SVMS8541	10	µg/mL	0.200	1	2.0
SVMS8549	ICAL 7	SVMS8541	10	µg/mL	0.250	1	2.5
SVMS8550	ICV1	SVMS8542	10	µg/mL	0.100	1	1.0
SVMS8551	ICV2	SVMS8542	10	µg/mL	0.200	1	2.0
SVMS8552	CCV	SVMS8541	10	µg/mL	0.100	1	1.0
SVMS		SVMS					
SVMS		SVMS					
SVMS		SVMS					

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
SVMS8553	8270 SIM Internal Standards	Methylene Chloride ChemPure DV482-US	RPN	11/21/19	05/21/20

STD Parent ID	Parent Concentration	Units	Standard Volume (ul)	Final Volume (ml)	Final Concentration (ug/ml)
S4170B	2000	µg/mL	50	1	100

PESTICIDE/HERBICIDE
QUALITY CONTROL SUMMARY
DOCUMENTS

CT LABORATORIES
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1D-1

PESTICIDE ORGANICS ANALYSIS

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TCLP	SDG No.:	149511
Sample wt/vol:	0.10 (g/L)	CTL Sample ID:	356218
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	01/01/1900 / 08:00
Analytical Method:	EPA 8151A	Analytical Prep Batch #	74634
Analytical Run #:	166947	Dilution Factor:	1.00
Date & Time Analyzed:	11/22/2019 / 17:35		
Cleanup Date/Time/Type:	, , ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			11/16/2019 / 09:10
ICAL Calibration #:	110719hrbic	Concentration Units:	mg/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
93-72-1	2,4,5-TP	0.00060	U	0.00021	0.00060	0.0012	0.0012
94-75-7	2,4-D	0.0030	U	0.0015	0.0030	0.0060	0.0060

CT LABORATORIES
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1D-1

PESTICIDE ORGANICS ANALYSIS

Sample Description: **46ADPT-TCLP**

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	TCLP	SDG No.:	149511
Sample wt/vol:	0.10 (g/L)	CTL Sample ID:	356218
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	11/20/2019 / 09:00
Analytical Method:	EPA 8081B	Analytical Prep Batch #	74635
Analytical Run #:	166876	Dilution Factor:	1.00
Date & Time Analyzed:	11/21/2019 / 22:45		
Cleanup Date/Time/Type:	, 11/21/2019 16:00 (Sulfur) ,		,
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			11/16/2019 / 09:10
ICAL Calibration #:	111419pstic	Concentration Units:	mg/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
5103-71-9	alpha-Chlordane	0.00010	U	0.000090	0.00010	0.00040	0.00040
12789-03-6	Chlordane (Technical)	0.0030	U	0.0010	0.0030	0.0060	0.0060
72-20-8	Endrin	0.00010	U Q	0.000060	0.00010	0.00024	0.00024
5103-74-2	gamma-Chlordane	0.00010	U	0.000070	0.00010	0.00024	0.00024
76-44-8	Heptachlor	0.00010	U	0.000060	0.00010	0.00024	0.00024
1024-57-3	Heptachlor epoxide	0.00010	U	0.000070	0.00010	0.00024	0.00024
58-89-9	Lindane	0.00010	U	0.000070	0.00010	0.00024	0.00024
72-43-5	Methoxychlor	0.00010	U	0.000060	0.00010	0.00040	0.00040
8001-35-2	Toxaphene	0.0030	U	0.0018	0.0030	0.0060	0.0060

CT LABORATORIES
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1D-3

Sample Description: **METHOD BLANK**

PESTICIDE ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	0.10 (g/L)	CTL Sample ID:	360319
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	01/01/1900 / 08:00
Analytical Method:	EPA 8151A	Analytical Prep Batch #	74634
Analytical Run #:	166947	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			11/16/2019 / 09:10
ICAL Calibration #:	110719hrbic	Concentration Units:	mg/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
93-72-1	2,4,5-TP	11/22/2019	17:01	0.00021	U	0.00021	0.00120	***0.00060***
94-75-7	2,4-D	11/22/2019	17:01	0.0015	U	0.0015	0.0060	***0.0030***

CT LABORATORIES
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1D-3

Sample Description

METHOD BLANK

PESTICIDE ORGANICS ANALYSIS (MB)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:		SDG No.:	149511
Sample wt/vol:	0.10 (g/L)	CTL Sample ID:	360323
% Solids:		Date Received:	11/11/2019
Conc. Extract Vol:	10 (mL)	Date/Time Prepared:	11/20/2019 / 09:00
Analytical Method:	EPA 8081B	Analytical Prep Batch #	74635
Analytical Run #:	166876	Dilution Factor:	1.00
Cleanup Date/Time/Type:	, 11/21/2019 16:00 (Sulfur) ,		,
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			11/16/2019 / 09:10
ICAL Calibration #:	111419pstic	Concentration Units:	mg/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
5103-71-9	alpha-Chlordane	11/21/2019	19:13	0.000009	U	0.000009	0.000040	***0.000020***
12789-03-6	Chlordane (Technical)	11/21/2019	19:13	0.000102	U	0.000102	0.00050	***0.00025***
72-20-8	Endrin	11/21/2019	19:13	0.000006	U	0.000006	0.000024	***0.000012***
5103-74-2	gamma-Chlordane	11/21/2019	19:13	0.000007	U	0.000007	0.000040	***0.000020***
76-44-8	Heptachlor	11/21/2019	19:13	0.000006	U	0.000006	0.000024	***0.000012***
1024-57-3	Heptachlor epoxide	11/21/2019	19:13	0.000007	U	0.000007	0.000024	***0.000012***
58-89-9	Lindane	11/21/2019	19:13	0.000007	U	0.000007	0.000024	***0.000012***
72-43-5	Methoxychlor	11/21/2019	19:13	0.000006	U	0.000006	0.000040	***0.000020***
8001-35-2	Toxaphene	11/21/2019	19:13	0.000176	U	0.000176	0.00050	***0.00025***

CT LABORATORIES
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2E-1

WATER PESTICIDE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Analytical Method: EPA 8081B | SDG: 149511

Analytical Run #: 166876 | ICAL Calibration #: 111419pstic

GC Column(1): Restek RTX ID: 0.32 (mm) | GC Column(2): Restek RTX C2 ID: 0.32 (mm)

CTLab #	356218				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	96	25	140	
SURR:Decachlorobiphenyl	100	90	30	135	
CTLab #	**356624**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	35	25	140	
SURR:Decachlorobiphenyl	100	25	30	135	*FAIL*
CTLab #	**356626**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	88	25	140	
SURR:Decachlorobiphenyl	100	95	30	135	
CTLab #	**360323**	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	84.6	25	140	
SURR:Decachlorobiphenyl	100	52.4	30	135	
CTLab #	**360324**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	90.5	25	140	
SURR:Decachlorobiphenyl	100	63.5	30	135	
CTLab #	**360326**	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
SURR:2,4,5,6-CL4-m-xylene	100	47.2	25	140	
SURR:Decachlorobiphenyl	100	19.1	30	135	*FAIL*

CT LABORATORIES
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2E-1

WATER PESTICIDE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Analytical Method: EPA 8151A | SDG: 149511

Analytical Run #: 166947 | ICAL Calibration #: 110719hrbic

GC Column(1): Restek RTX ID: 0.32 (mm) | GC Column(2): Restek RTX C2 ID: 0.32 (mm)

CTLab #	356218				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4-DCAA	100	90	32	138	

CTLab #	356624				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4-DCAA	100	88	32	138	

CTLab #	356626				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4-DCAA	100	105	32	138	

CTLab #	360319	Sample Type:	Method Blank		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4-DCAA		89.0	32	138	

CTLab #	360320	Sample Type:	Lab Control Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4-DCAA	100	87.7	32	138	

CTLab #	360327	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
Surr: 2,4-DCAA	100	93.5	32	138	

CT LABORATORIES
delivering more than data from your environmental analyses

3E

Sample Description

LCS

WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Sample No.: 360320 SDG No.: 149511

Analytical Method: EPA 8151A Concentration Units: mg/L

Sample No.: 360320 Parent Sample No.: 0

Analytical Prep Batch #: 74634 Analytical Preparation Date/Time: 01/01/1900 08:00

Analytical Run #: 166947 ICAL Calibration #: 110719hrbic

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
2,4,5-TP	11/22/2019	17:18	51-134	0.00950		0.0100	95
2,4-D	11/22/2019	17:18	45-152	0.0463		0.0500	93

Spike Recovery: 0 out of 2 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3E

Sample Description

LCS

WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Sample No.: 360324 SDG No.: 149511

Analytical Method: EPA 8081B Concentration Units: mg/L

Sample No.: 360324 Parent Sample No.: 0

Analytical Prep Batch #: 74635 Analytical Preparation Date/Time: 11/20/2019 09:00

Analytical Run #: 166876 ICAL Calibration #: 111419pstic

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
alpha-Chlordane	11/21/2019	19:29	65-125	0.00394		0.00400	98	
Endrin	11/21/2019	19:29	55-135	0.00565		0.00400	141	*FAIL*
gamma-Chlordane	11/21/2019	19:29	60-125	0.00403		0.00400	101	
Heptachlor	11/21/2019	19:29	40-130	0.00389		0.00400	97	
Heptachlor epoxide	11/21/2019	19:29	60-130	0.00395		0.00400	99	
Lindane	11/21/2019	19:29	25-135	0.00391		0.00400	98	
Methoxychlor	11/21/2019	19:29	55-150	0.00514		0.00400	128	

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Chlordane (Technical)	11/21/2019	19:46	50-150	0.0229		0.0250	92
Toxaphene	11/21/2019	19:46	50-150	0.0234		0.0250	94

Spike Recovery: 1 out of 9 outside limits

CT Laboratories

4C-1

PESTICIDE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	360319	SDG No.:	149511
Matrix:	LIQUID	Date Extracted:	01/01/1900
Date Analyzed:	11/22/2019	Time Analyzed:	17:01
Analytical Method:	EPA 8151A	Extraction Method:	METHOD
Analytical Run #:	166947	Extraction Batch #:	74634
		ICAL Calibration #:	110719hrbic

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION REFERENCE #
1	46ADPT-TCLP	356218	11/22/2019 17:35	110719hrbic
2	MBW	360319	11/22/2019 17:01	110719hrbic
3	LCSW	360320	11/22/2019 17:18	110719hrbic
4	ACADM-WW-001MSW	360327	11/22/2019 18:26	110719hrbic

CT Laboratories

4C-1

PESTICIDE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Sample ID:	360323	SDG No.:	149511
Matrix:	LIQUID	Date Extracted:	11/20/2019
Date Analyzed:	11/21/2019	Time Analyzed:	19:13
Analytical Method:	EPA 8081B	Extraction Method:	SW3510
Analytical Run #:	166876	Extraction Batch #:	74635
		ICAL Calibration #:	111419pstic

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

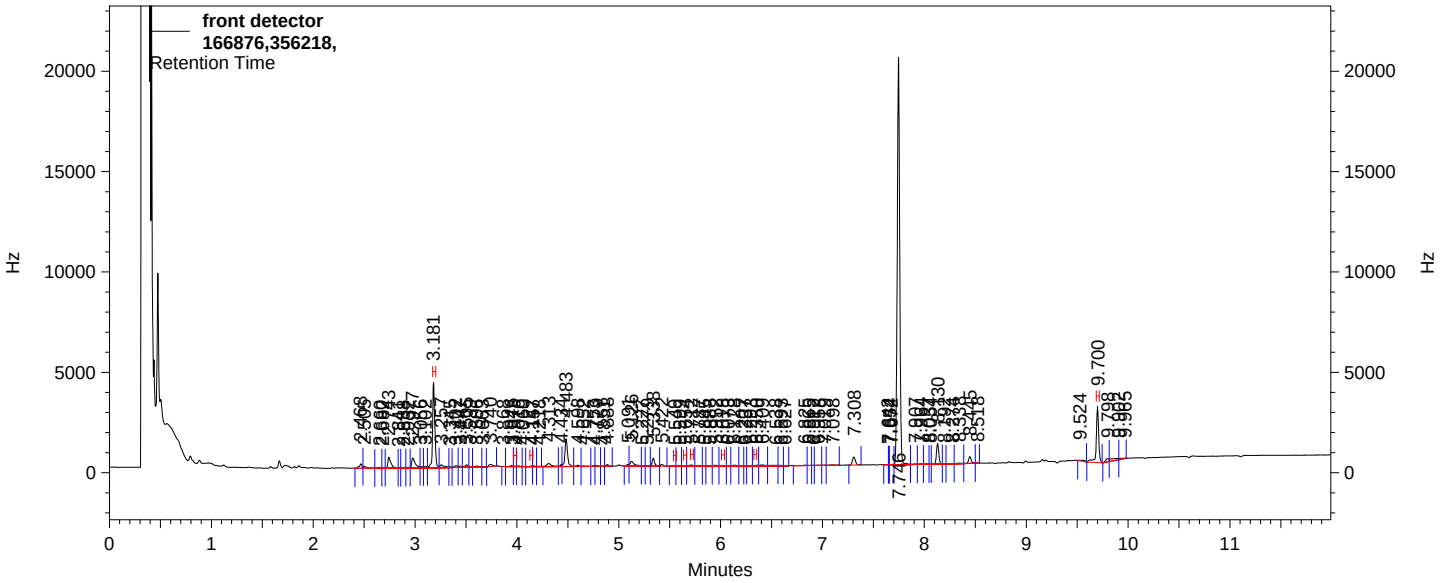
SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION REFERENCE #
1	46ADPT-TCLP	356218	11/21/2019 22:45	111419pstic
2	MBW	360323	11/21/2019 19:13	111419pstic
3	LCSW	360324	11/21/2019 19:29	111419pstic
4	LCSW	360324	11/21/2019 19:46	111419pstic
5	ACADM-WW-001MSW	360326	11/21/2019 21:24	111419pstic

PESTICIDE/HERBICIDE
SAMPLE DATA
DOCUMENTS

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\022.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,356218,
Acquired: 11/21/2019 22:45:22
Printed: 11/22/2019 10:13:30

Data Summary: {Data Description}



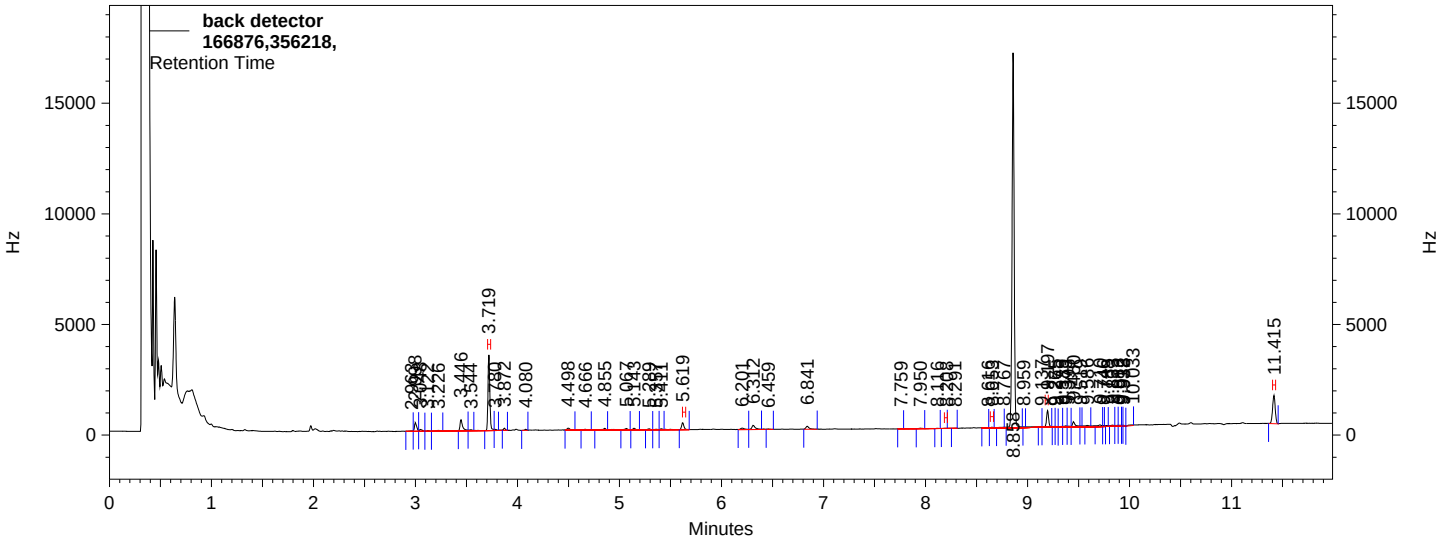
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.181	49927701	95.6503
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC	3.973	283618	0.0001
DELTABHC	4.147	404062	0.0001
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR	5.549	72471	0.0000
44DDE	5.654	447236	0.0003
ENDOI	5.712	1348308	0.0003
DIELDRIN	6.018	776790	0.0002
ENDRIN	6.350	680107	0.0003
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	9.700	35018378	90.1753

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\022.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,356218,
Acquired: 11/21/2019 22:45:22
Printed: 11/22/2019 10:13:30

Data Summary: {Data Description}



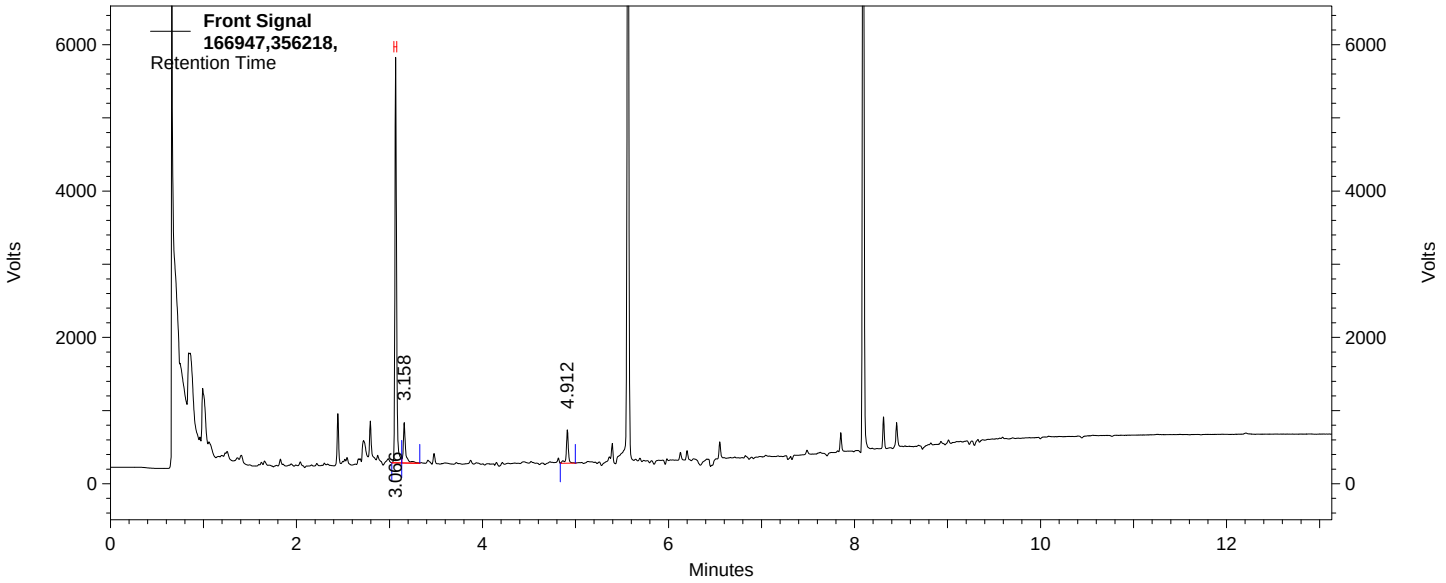
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.719	33837748	90.9870
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR			0.0000 BDL
ALDRIN	5.619	3811820	0.0019
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
ENDOI			0.0000 BDL
44DDE			0.0000 BDL
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD	8.208	128497	0.0000
ENDOII			0.0000 BDL
44DDT	8.653	535712	0.0006
ENDRINALDEH			0.0000 BDL
ENDOSULFATE	9.197	8678604	0.0073
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	11.415	17678552	70.5688

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\112219hrb\009.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,356218,
Acquired: 11/22/2019 17:35:32
Printed: 11/25/2019 09:26:50

Data Summary: {Data Description}



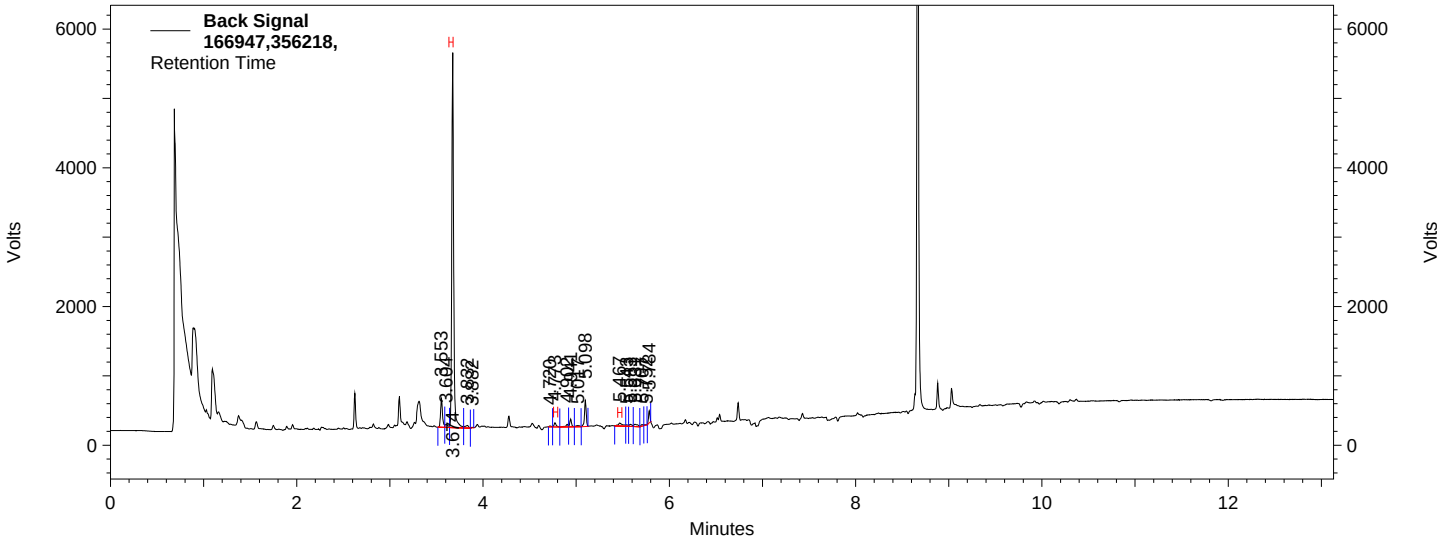
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.066	51933635	90.2383
2,4-D			0.0000 BDL
Silvex			0.0000 BDL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\112219hrb\009.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,356218,
Acquired: 11/22/2019 17:35:32
Printed: 11/25/2019 09:26:50

Data Summary: {Data Description}



Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.674	58211179	93.0376
2,4-D	4.773	721774	0.0049
Silvex	5.467	1094038	0.0016

PESTICIDE/HERBICIDE
INITIAL CALIBRATION
DOCUMENTS

Pesticide Analysis Breakdown Report

Data File: C:\Instarch\Semi1\data\111419pstic\001.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
User: JJY
Instrument: Semi 1
Sample ID: EVAL PP6073
Acquired: 11/14/2019 16:01:04
Printed: 11/14/2019 16:15:48

Channel A: **DDT Breakdown** **2.5** **%** **Endrin Breakdown** **6.1** **%**

Channel B: **DDT Breakdown** **3.3** **%** **Endrin Breakdown** **6.4** **%**

Channel A

Compound	Area	Compound	Area
44DDT	48299270	ENDRIN	47755399
44DDD	1129535	ENDRINALDEH	1107399
44DDE	95349	ENDRINKETONE	1983629

Channel B

Compound	Area	Compound	Area
44DDT	30247746	ENDRIN	33901149
44DDD	863706	ENDRINALDEH	868649
44DDE	179521	ENDRINKETONE	1448703

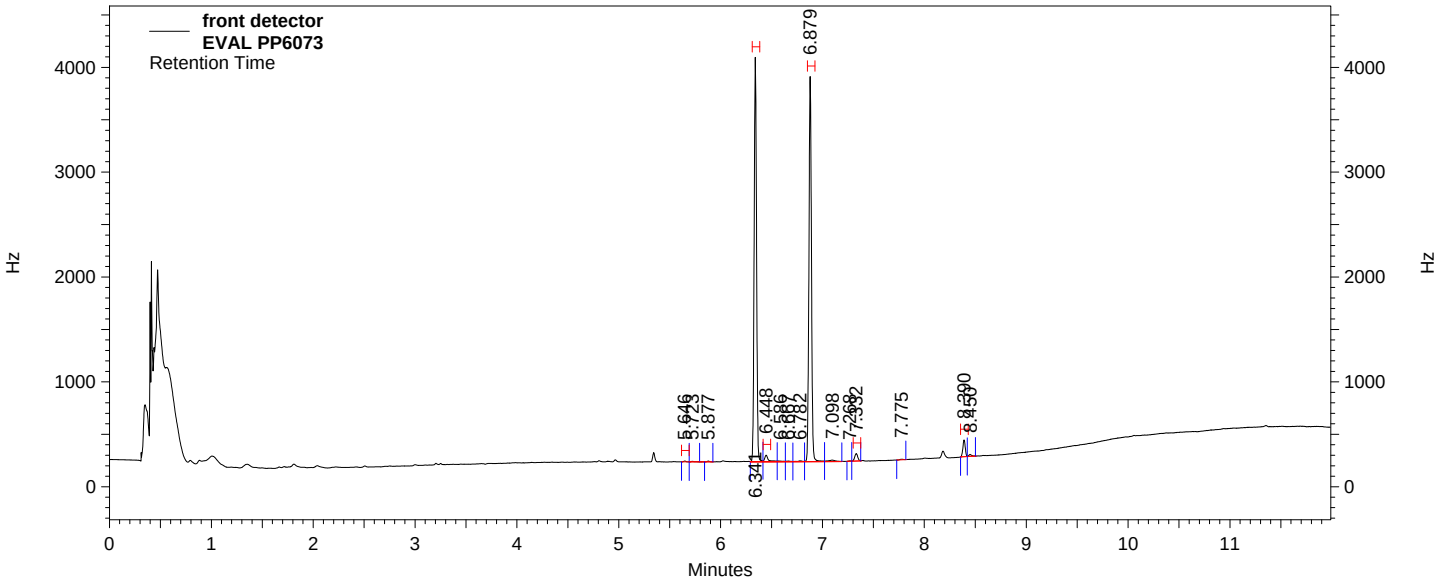
DDT Breakdown $= \frac{44DDD + 44DDE}{44DDD + 44DDE + 44DDT} \times 100\ \%$

Endrin Breakdown $= \frac{\text{Endrin aldehyde + Endrin ketone}}{\text{Endrin + Endrin aldehyde + Endrin ketone}} \times 1...\ \%$

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\001.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
User: JJY
Sample ID: EVAL PP6073
Acquired: 11/14/2019 16:01:04
Printed: 11/18/2019 08:41:02

Data Summary: {Data Description}



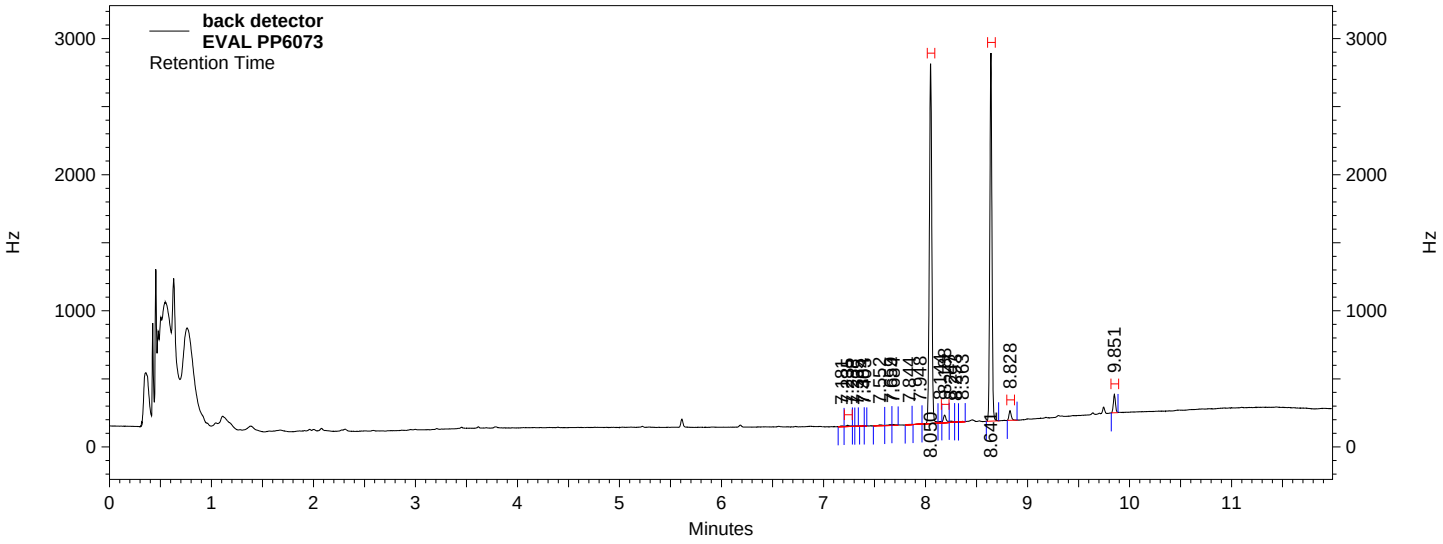
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
44DDE	5.646	95349	0.0003
ENDRIN	6.341	47755399	0.0163
44DDD	6.448	1129535	0.0007
44DDT	6.879	48299270	0.0175
ENDRINALDEH	7.332	1107399	0.0006
ENDRINKETONE	8.390	1983629	0.0008

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\001.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
User: JJY
Sample ID: EVAL PP6073
Acquired: 11/14/2019 16:01:04
Printed: 11/18/2019 08:41:02

Data Summary: {Data Description}



back detector Results

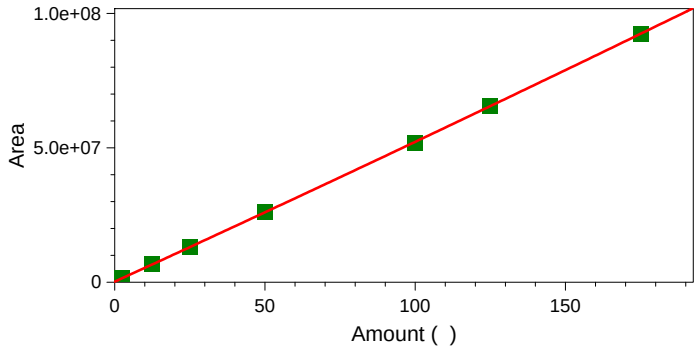
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
44DDE	7.235	179521	0.0001
ENDRIN	8.050	33901149	0.0085
44DDD	8.188	863706	0.0004
44DDT	8.641	30247746	0.0073
ENDRINALDEH	8.828	868649	0.0001
ENDRINKETONE	9.851	1448703	0.0003

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:38
User: JJY
Instrument: Semi 1 (Offline)

SURRTCMXPEST (front detector)
Average RF: 535232. RF StDev: 25361.6 RF %RSD: 4.73843
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 90.2924x^2 + 511006.x + 223799.
Goodness of fit (r^2): 0.999963

Peak: SURRTCMXPEST -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	2.5	12.5	25	50	100
Area	1476283	6745632	13093308	26036946	51782023
RF	590513.2	539650.56	523732.32	520738.92	517820.23
Last Area					
Residual	0.0500418	-0.234093	-0.0735923	-0.0714193	0.841702
Rep StDev					
Rep %RSD					
Rep 1 Area	1476283	6745632	13093308	26036946	51782023
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	125	175
Area	65678471	92529557

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:38
User: JJY
Instrument: Semi 1 (Offline)

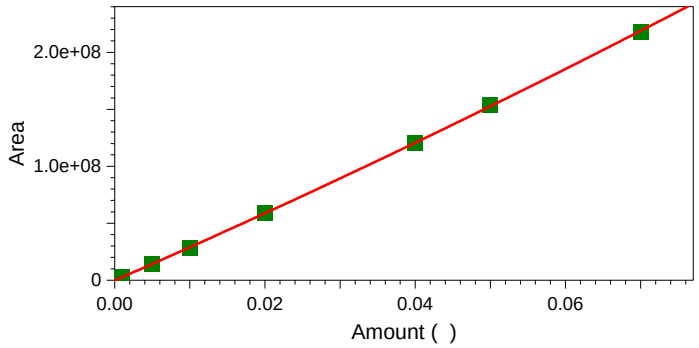
RF	525427.768	528740.325714286
Last Area Residual	-0.315149	-0.211177
Rep StDev		
Rep %RSD		
Rep 1 Area	65678471	92529557
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:40
User: JJY
Instrument: Semi 1 (Offline)

ALPHABHC (front detector)
Average RF: 2.93539e+009 RF StDev: 1.45839e+008 RF %RSD: 4.96829
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.61672e+009x^2 + 2.87630e+009x - 208921.
Goodness of fit (r^2): 0.999954

Peak: ALPHABHC -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2707729	14138510	28568710	59161523	120217082
RF	2707729000	2827702000	2856871000	2958076150	3005427050
Last Area					
Residual	-1.27375e-005	4.27511e-005	0.000117724	-0.000131621	0.000130448
Rep StDev					
Rep %RSD					
Rep 1 Area	2707729	14138510	28568710	59161523	120217082
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	153664507	218305865

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:40
User: JJY
Instrument: Semi 1 (Offline)

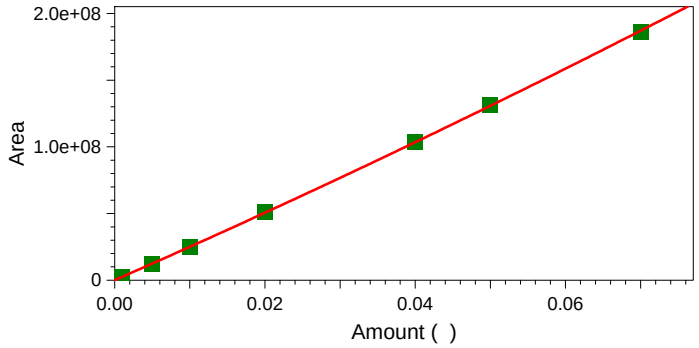
RF	3073290140	3118655214.28571
Last Area Residual	-0.000313806	0.000162147
Rep StDev		
Rep %RSD		
Rep 1 Area	153664507	218305865
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:42
User: JJY
Instrument: Semi 1 (Offline)

LINDANE (front detector)
Average RF: 2.56106e+009 RF StDev: 7.22115e+007 RF %RSD: 2.81960
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.88823e+009x^2 + 2.47011e+009x + 48861.4
Goodness of fit (r^2): 0.999958

Peak: LINDANE -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2542287	12539000	24555900	50744278	103551590
RF	2542287000	2507800000	2455590000	2537213900	2588789750
Last Area Residual	-8.25139e-006	-2.69678e-005	0.000191057	-5.33574e-005	-2.85998e-005
Rep StDev					
Rep %RSD					
Rep 1 Area	2542287	12539000	24555900	50744278	103551590
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	131548686	186531454

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:42
User: JJY
Instrument: Semi 1 (Offline)

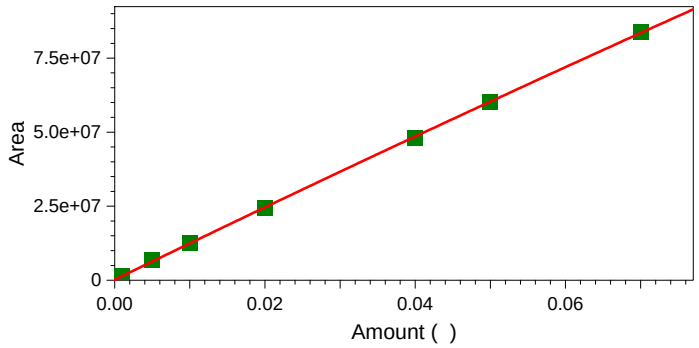
RF	2630973720	2664735057.14286
Last Area Residual	-0.000280414	0.000200866
Rep StDev		
Rep %RSD		
Rep 1 Area	131548686	186531454
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:43
User: JJY
Instrument: Semi 1 (Offline)

BETABHC (front detector)
Average RF: 1.25029e+009 RF StDev: 6.23522e+007 RF %RSD: 4.98703
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -6.31368e+008x^2 + 1.23446e+009x + 163785.
Goodness of fit (r^2): 0.999822

Peak: BETABHC -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1313467	6767777	12636259	24453523	47878702
RF	1313467000	1353555400	1263625900	1222676150	1196967550
Last Area					
Residual	6.82292e-005	-0.000364436	-0.000156377	0.000121424	0.000551497
Rep StDev					
Rep %RSD					
Rep 1 Area	1313467	6767777	12636259	24453523	47878702
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	60081877	84005636

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:43
User: JJY
Instrument: Semi 1 (Offline)

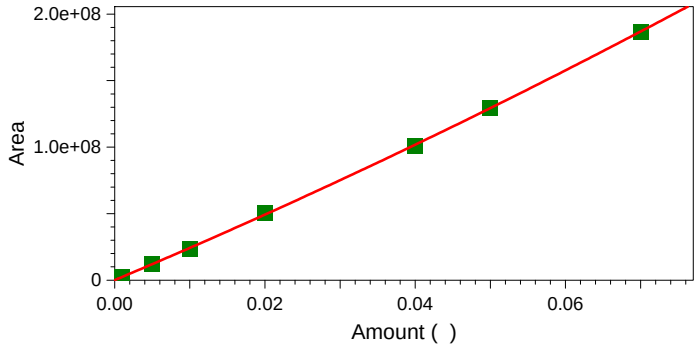
RF	1201637540	1200080514.28571
Last Area Residual	0.000193172	-0.000457011
Rep StDev		
Rep %RSD		
Rep 1 Area	60081877	84005636
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:44
User: JJY
Instrument: Semi 1 (Offline)

DELTABHC (front detector)
Average RF: 2.51678e+009 RF StDev: 1.01925e+008 RF %RSD: 4.04981
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 4.19066e+009x^2 + 2.37564e+009x + 115118.
Goodness of fit (r^2): 0.999925

Peak: DELTABHC -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2520638	12100930	23635142	50424586	101194592
RF	2520638000	2420186000	2363514200	2521229300	2529864800
Last Area Residual	-1.07765e-005	-1.18286e-006	0.000266609	-0.000440241	0.000240256
Rep StDev					
Rep %RSD					
Rep 1 Area	2520638	12100930	23635142	50424586	101194592
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	129549578	186973227

Calibration Report

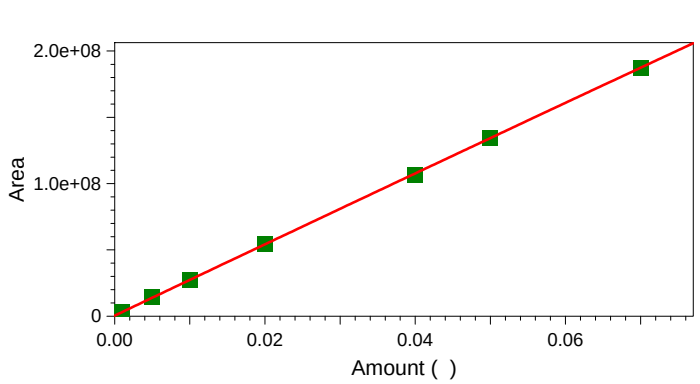
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:44
User: JJY
Instrument: Semi 1 (Offline)

RF	2590991560	2671046100
Last Area Residual	-6.29542e-005	-9.88346e-006
Rep StDev		
Rep %RSD		
Rep 1 Area	129549578	186973227
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:46
User: JJY
Instrument: Semi 1 (Offline)

HEPTACHLOR (front detector)
Average RF: 2.77757e+009 RF StDev: 1.55549e+008 RF %RSD: 5.60019
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -3.70054e+008x^2 + 2.69665e+009x + 455814.
Goodness of fit (r^2): 0.999964



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	3108733	14155791	27346170	54472691	106838406
RF	3108733000	2831158200	2734617000	2723634550	2670960150
Last Area					
Residual	1.60823e-005	-8.39246e-005	1.45364e-005	-8.65058e-005	0.000334113
Rep StDev					
Rep %RSD					
Rep 1 Area	3108733	14155791	27346170	54472691	106838406
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	134683706	187616237

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:46
User: JJY
Instrument: Semi 1 (Offline)

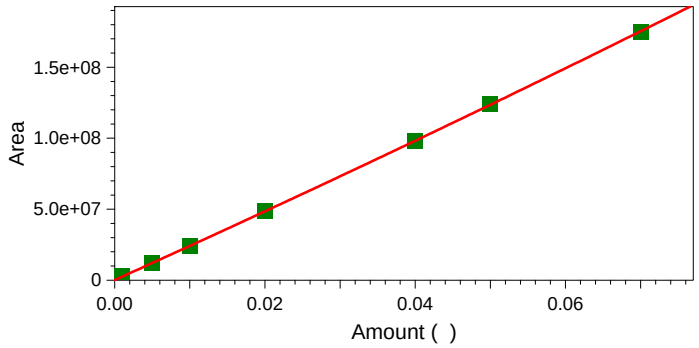
RF	2693674120	2680231957.14286
Last Area Residual	-0.000120605	-7.8839e-005
Rep StDev		
Rep %RSD		
Rep 1 Area	134683706	187616237
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:47
User: JJY
Instrument: Semi 1 (Offline)

ALDRIN (front detector)
Average RF: 2.46650e+009 RF StDev: 5.91794e+007 RF %RSD: 2.39932
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.73321e+009x^2 + 2.38127e+009x + 181638.
Goodness of fit (r^2): 0.999995

Peak: ALDRIN -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2575381	12139642	23957948	48661708	98188721
RF	2575381000	2427928400	2395794800	2433085400	2454718025
Last Area Residual	-4.50163e-006	-3.46014e-006	8.68287e-005	-6.58127e-005	6.76525e-006
Rep StDev					
Rep %RSD					
Rep 1 Area	2575381	12139642	23957948	48661708	98188721
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	123781067	175210320

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:47
User: JJY
Instrument: Semi 1 (Offline)

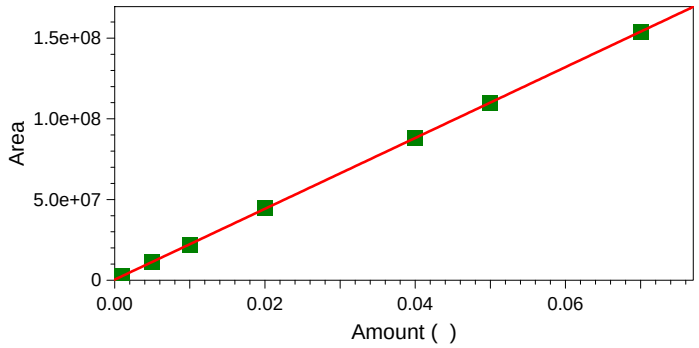
RF	2475621340	2503004571.42857
Last Area Residual	-7.93276e-005	5.84208e-005
Rep StDev		
Rep %RSD		
Rep 1 Area	123781067	175210320
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:49
User: JJY
Instrument: Semi 1 (Offline)

HEPTAEPOX (front detector)
Average RF: 2.26987e+009 RF StDev: 1.32497e+008 RF %RSD: 5.83722
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.34014e+007x^2 + 2.19275e+009x + 378671.
Goodness of fit (r^2): 0.999989

Peak: HEPTAEPOX -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2560420	11470422	22060751	44529341	88057255
RF	2560420000	2294084400	2206075100	2226467050	2201431375
Last Area Residual	5.03348e-006	-5.79771e-005	0.000113428	-0.000128637	3.87152e-005
Rep StDev					
Rep %RSD					
Rep 1 Area	2560420	11470422	22060751	44529341	88057255
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	109910958	154165977
RF	2198219160	2202371100

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:49
User: JJY
Instrument: Semi 1 (Offline)

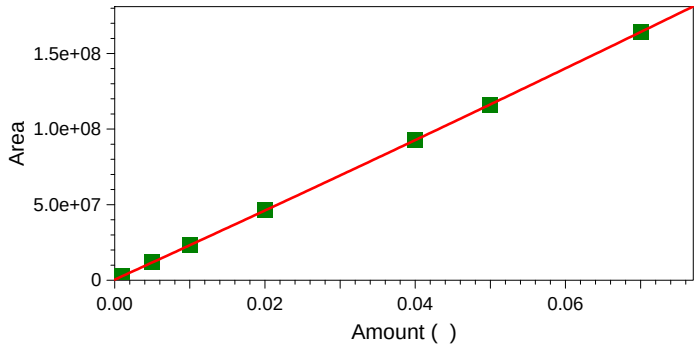
Last Area Residual	8.60115e-005	-5.95683e-005
Rep StDev		
Rep %RSD		
Rep 1 Area	109910958	154165977
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:51
User: JJY
Instrument: Semi 1 (Offline)

GAMMACHLOR (front detector)
Average RF: 2.37639e+009 RF StDev: 1.19697e+008 RF %RSD: 5.03691
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.07199e+009x^2 + 2.26515e+009x + 405560.
Goodness of fit (r^2): 0.999982

Peak: GAMMACHLOR -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2642693	11873923	23218433	46251405	92534535
RF	2642693000	2374784600	2321843300	2312570250	2313363375
Last Area					
Residual	1.28287e-005	-5.08919e-005	-2.37028e-005	-4.94345e-005	8.17208e-005
Rep StDev					
Rep %RSD					
Rep 1 Area	2642693	11873923	23218433	46251405	92534535
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	115903982	164599447

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:51
User: JJY
Instrument: Semi 1 (Offline)

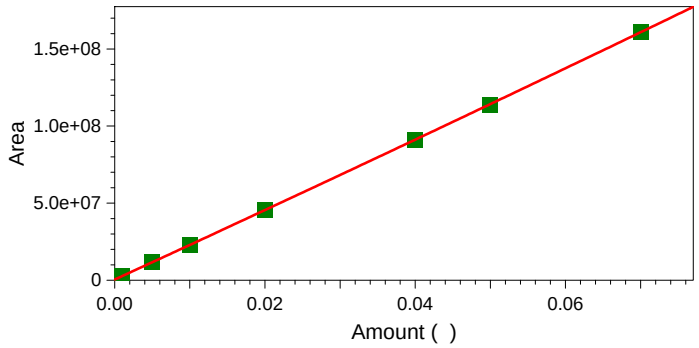
RF	2318079640	2351420671.42857
Last Area Residual	0.000185035	-0.000157657
Rep StDev		
Rep %RSD		
Rep 1 Area	115903982	164599447
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:52
User: JJY
Instrument: Semi 1 (Offline)

ALPHACHLOR (front detector)
Average RF: 2.35053e+009 RF StDev: 1.39080e+008 RF %RSD: 5.91698
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 7.76070e+008x^2 + 2.23756e+009x + 456032.
Goodness of fit (r^2): 0.999965

Peak: ALPHACHLOR -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2658961	11791848	22998674	45648713	91036280
RF	2658961000	2358369600	2299867400	2282435650	2275907000
Last Area					
Residual	1.58112e-005	-5.72902e-005	-3.97146e-005	-5.78081e-005	7.1177e-005
Rep StDev					
Rep %RSD					
Rep 1 Area	2658961	11791848	22998674	45648713	91036280
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	113628953	161390608

Calibration Report

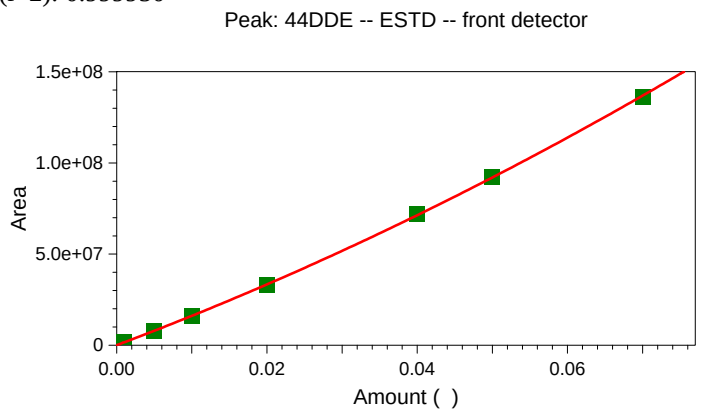
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:52
User: JJY
Instrument: Semi 1 (Offline)

RF	2272579060	2305580114.28571
Last Area Residual	0.000278633	-0.000214356
Rep StDev		
Rep %RSD		
Rep 1 Area	113628953	161390608
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:54
User: JJY
Instrument: Semi 1 (Offline)

44DDE (front detector)
Average RF: 1.72063e+009 RF StDev: 1.46916e+008 RF %RSD: 8.53852
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.78714e+009x^2 + 1.55094e+009x + 35210.8
Goodness of fit (r^2): 0.999950



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1640328	7699873	16057765	33288201	72024137
RF	1640328000	1539974600	1605776500	1664410050	1800603425
Last Area Residual	-3.09632e-005	0.000145983	3.93644e-005	4.53072e-005	-0.000343143
Rep StDev					
Rep %RSD					
Rep 1 Area	1640328	7699873	16057765	33288201	72024137
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	92163077	136503762

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:54
User: JJY
Instrument: Semi 1 (Offline)

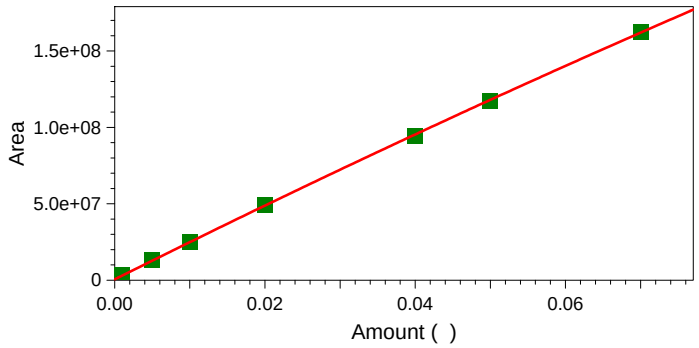
RF	1843261540	1950053742.85714
Last Area Residual	-5.29655e-005	0.000192591
Rep StDev		
Rep %RSD		
Rep 1 Area	92163077	136503762
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:56
User: JJY
Instrument: Semi 1 (Offline)

ENDOI (front detector)
Average RF: 2.50984e+009 RF StDev: 2.14534e+008 RF %RSD: 8.54772
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.13787e+009x^2 + 2.45626e+009x + 569396.
Goodness of fit (r^2): 0.999920

Peak: ENDOI -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2925453	13240083	25065377	48970317	94584803
RF	2925453000	2648016600	2506537700	2448515850	2364620075
Last Area					
Residual	3.99939e-005	-0.000181893	-6.09673e-005	-5.51784e-005	0.000356309
Rep StDev					
Rep %RSD					
Rep 1 Area	2925453	13240083	25065377	48970317	94584803
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	117518896	162775035

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:56
User: JJY
Instrument: Semi 1 (Offline)

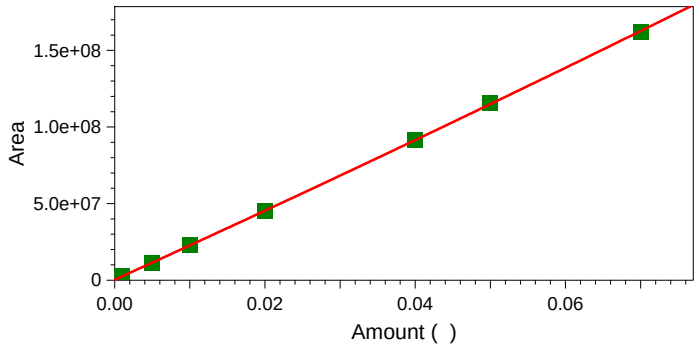
RF	2350377920	2325357642.85714
Last Area Residual	0.000231377	-0.000344493
Rep StDev		
Rep %RSD		
Rep 1 Area	117518896	162775035
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:57
User: JJY
Instrument: Semi 1 (Offline)

DIELDRIN (front detector)
Average RF: 2.33165e+009 RF StDev: 1.16194e+008 RF %RSD: 4.98334
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.32184e+009x^2 + 2.22580e+009x + 339800.
Goodness of fit (r^2): 0.999986

Peak: DIELDRIN -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2591591	11400138	22659197	45433067	91425506
RF	2591591000	2280027600	2265919700	2271653350	2285637650
Last Area Residual	-1.10709e-005	4.54222e-005	3.14217e-005	-2.13143e-005	2.62334e-005
Rep StDev					
Rep %RSD					
Rep 1 Area	2591591	11400138	22659197	45433067	91425506
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	115378522	162342514

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:57
User: JJY
Instrument: Semi 1 (Offline)

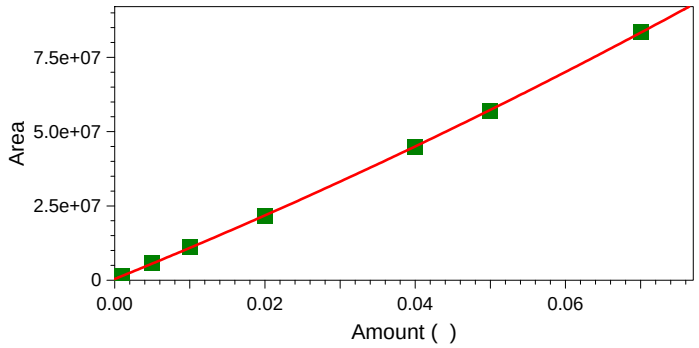
RF	2307570440	2319178771.42857
Last Area Residual	-0.000188368	0.000116221
Rep StDev		
Rep %RSD		
Rep 1 Area	115378522	162342514
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:59
User: JJY
Instrument: Semi 1 (Offline)

ENDRIN (front detector)
Average RF: 1.17041e+009 RF StDev: 9.80192e+007 RF %RSD: 8.37477
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.29588e+009x^2 + 1.02346e+009x + 417410.
Goodness of fit (r^2): 0.999889

Peak: ENDRIN -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1374372	5834350	11232811	21441469	44758643
RF	1374372000	1166870000	1123281100	1072073450	1118966075
Last Area					
Residual	6.69274e-005	-0.000231375	-0.000328186	0.000326154	0.000224279
Rep StDev					
Rep %RSD					
Rep 1 Area	1374372	5834350	11232811	21441469	44758643
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	57068212	83716401

Calibration Report

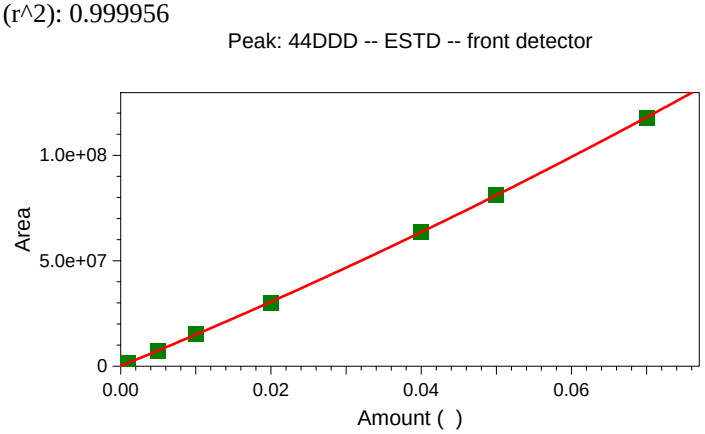
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:59
User: JJY
Instrument: Semi 1 (Offline)

RF	1141364240	1195948585.71429
Last Area Residual	0.000209133	-0.000302399
Rep StDev		
Rep %RSD		
Rep 1 Area	57068212	83716401
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:01
User: JJY
Instrument: Semi 1 (Offline)

44DDD (front detector)
Average RF: 1.57004e+009 RF StDev: 7.13839e+007 RF %RSD: 4.54662
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.27199e+009x^2 + 1.45545e+009x + 113118.
Goodness of fit (r^2): 0.999956



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1567359	7388432	15424878	30046803	63574727
RF	1567359000	1477686400	1542487800	1502340150	1589368175
Last Area					
Residual	3.06207e-006	5.62601e-005	-0.000282627	0.000305315	-5.00784e-006
Rep StDev					
Rep %RSD					
Rep 1 Area	1567359	7388432	15424878	30046803	63574727
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	81317120	117930439

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:01
User: JJY
Instrument: Semi 1 (Offline)

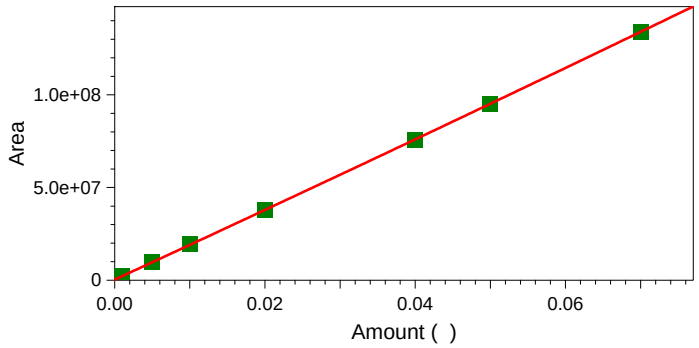
RF	1626342400	1684720557.14286
Last Area Residual	-0.000141184	5.04996e-005
Rep StDev		
Rep %RSD		
Rep 1 Area	81317120	117930439
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:02
User: JJY
Instrument: Semi 1 (Offline)

ENDOII (front detector)
Average RF: 1.95280e+009 RF StDev: 1.01405e+008 RF %RSD: 5.19276
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 6.19113e+008x^2 + 1.86599e+009x + 347577.
Goodness of fit (r^2): 0.999981

Peak: ENDOII -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2173974	9829203	19339568	37654335	75696805
RF	2173974000	1965840600	1933956800	1882716750	1892420125
Last Area					
Residual	2.1538e-005	-7.2735e-005	-0.000143807	0.000137927	0.00014677
Rep StDev					
Rep %RSD					
Rep 1 Area	2173974	9829203	19339568	37654335	75696805
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	95173667	134207629

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:02
User: JJY
Instrument: Semi 1 (Offline)

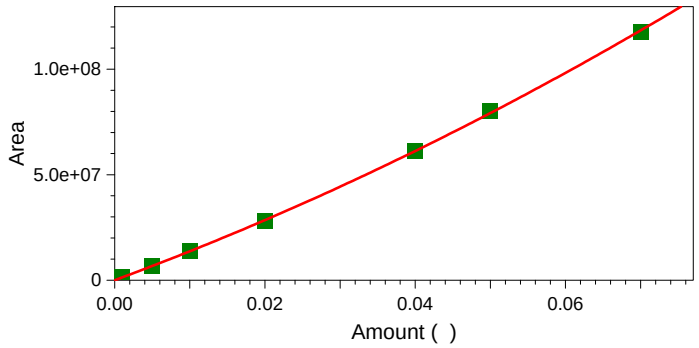
RF	1903473340	1917251842.85714
Last Area Residual	1.11057e-005	-0.000105899
Rep StDev		
Rep %RSD		
Rep 1 Area	95173667	134207629
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:04
User: JJY
Instrument: Semi 1 (Offline)

44DDT (front detector)
Average RF: 1.46995e+009 RF StDev: 1.35760e+008 RF %RSD: 9.23569
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.34519e+009x^2 + 1.31645e+009x + 18344.5
Goodness of fit (r^2): 0.999885

Peak: 44DDT -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1334860	6755633	13909978	27946161	61196972
RF	1334860000	1351126600	1390997800	1397308050	1529924300
Last Area					
Residual	3.98122e-006	-1.56126e-005	-0.000135228	0.000352884	1.82568e-005
Rep StDev					
Rep %RSD					
Rep 1 Area	1334860	6755633	13909978	27946161	61196972
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	80073710	117878984

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:04
User: JJY
Instrument: Semi 1 (Offline)

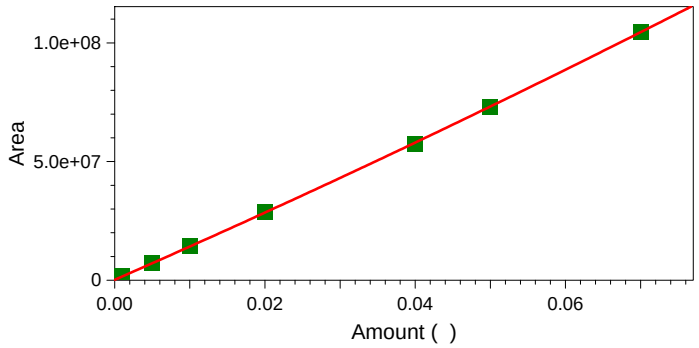
RF	1601474200	1683985485.71429
Last Area Residual	-0.000469217	0.000233864
Rep StDev		
Rep %RSD		
Rep 1 Area	80073710	117878984
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:06
User: JJY
Instrument: Semi 1 (Offline)

ENDRINALDEH (front detector)
Average RF: 1.46836e+009 RF StDev: 4.90283e+007 RF %RSD: 3.33899
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.51593e+009x^2 + 1.38397e+009x + 209805.
Goodness of fit (r^2): 0.999946

Peak: ENDRINALDEH -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1566182	7255463	14351663	28596762	57404432
RF	1566182000	1451092600	1435166300	1429838100	1435110800
Last Area Residual	2.09879e-005	-6.28243e-005	-0.000106441	-7.00245e-005	0.000391921
Rep StDev					
Rep %RSD					
Rep 1 Area	1566182	7255463	14351663	28596762	57404432
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	73186495	104817195
RF	1463729900	1497388500

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:06
User: JJY
Instrument: Semi 1 (Offline)

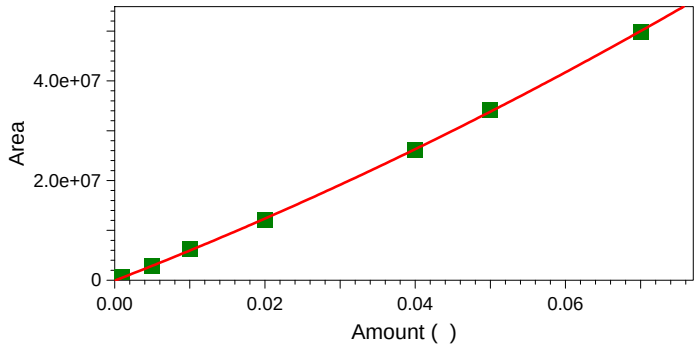
Last Area Residual	7.61369e-006	-0.000188757
Rep StDev		
Rep %RSD		
Rep 1 Area	73186495	104817195
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:07
User: JJY
Instrument: Semi 1 (Offline)

METHOXYCL (front detector)
Average RF: 6.22284e+008 RF StDev: 6.95379e+007 RF %RSD: 11.1746
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.86641e+009x^2 + 5.84660e+008x - 74368.1
Goodness of fit (r^2): 0.999894

Peak: METHOXYCL -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	503421	2910283	6169586	12067206	26212249
RF	503421000	582056600	616958600	603360300	655306225
Last Area					
Residual	1.48503e-005	-2.4347e-005	-0.000338427	0.000452857	0.000117273
Rep StDev					
Rep %RSD					
Rep 1 Area	503421	2910283	6169586	12067206	26212249
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	34087676	49919067

Calibration Report

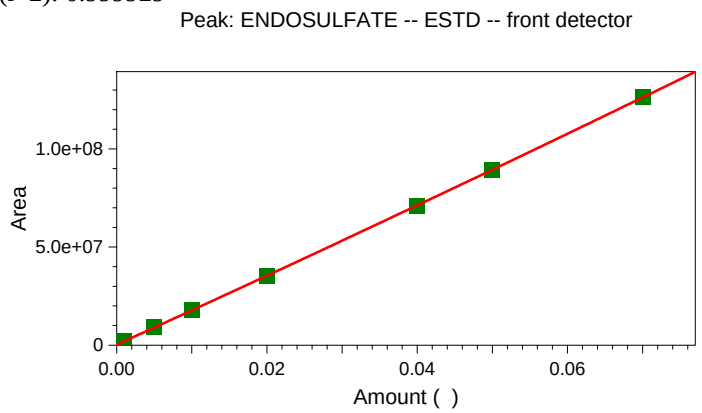
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:07
User: JJY
Instrument: Semi 1 (Offline)

RF	681753520	713129528.571429
Last Area Residual	-0.000340706	9.24589e-005
Rep StDev		
Rep %RSD		
Rep 1 Area	34087676	49919067
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:09
User: JJY
Instrument: Semi 1 (Offline)

ENDOSULFATE (front detector)
Average RF: 1.81983e+009 RF StDev: 6.55515e+007 RF %RSD: 3.60207
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 8.34583e+008x^2 + 1.74085e+009x + 278172.
Goodness of fit (r^2): 0.999929



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1947616	9289906	18137708	35167346	70699236
RF	1947616000	1857981200	1813770800	1758367300	1767480900
Last Area					
Residual	4.14572e-005	-0.000163851	-0.000209134	0.000147464	0.000303307
Rep StDev					
Rep %RSD					
Rep 1 Area	1947616	9289906	18137708	35167346	70699236
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	89149848	126739960

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:09
User: JJY
Instrument: Semi 1 (Offline)

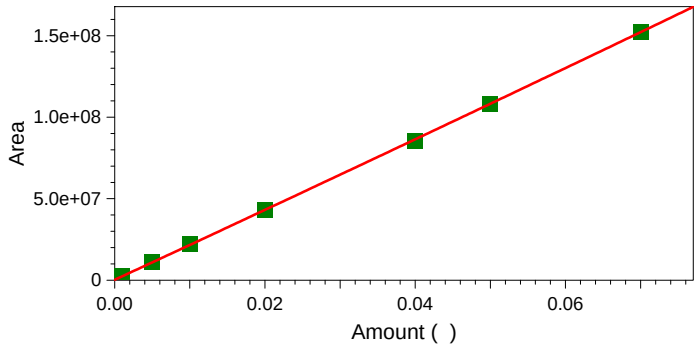
RF	1782996960	1810570857.14286
Last Area Residual	0.000140982	-0.000276103
Rep StDev		
Rep %RSD		
Rep 1 Area	89149848	126739960
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:10
User: JJY
Instrument: Semi 1 (Offline)

ENDRINKETONE (front detector)
Average RF: 2.20284e+009 RF StDev: 7.25364e+007 RF %RSD: 3.29286
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.42364e+008x^2 + 2.13208e+009x + 277821.
Goodness of fit (r^2): 0.999946

Peak: ENDRINKETONE -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2351911	11137395	22058685	42964534	85639798
RF	2351911000	2227479000	2205868500	2148226700	2140994950
Last Area					
Residual	2.74389e-005	-8.68374e-005	-0.000189375	7.97759e-005	0.000362701
Rep StDev					
Rep %RSD					
Rep 1 Area	2351911	11137395	22058685	42964534	85639798
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	108271910	152595703

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:10
User: JJY
Instrument: Semi 1 (Offline)

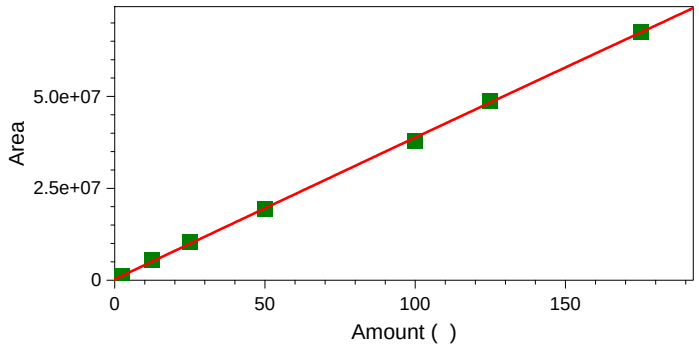
RF	2165438200	2179938614.28571
Last Area Residual	-1.56518e-005	-0.000187832
Rep StDev		
Rep %RSD		
Rep 1 Area	108271910	152595703
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:12
User: JJY
Instrument: Semi 1 (Offline)

SURRDCBPEST (front detector)
Average RF: 405368. RF StDev: 28023.5 RF %RSD: 6.91310
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -22.8133x^2 + 387730.x + 240217.
Goodness of fit (r^2): 0.999568

Peak: SURRDCBPEST -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	2.5	12.5	25	50	100
Area	1134514	5363297	10358026	19269071	37799730
RF	453805.6	429063.76	414321.04	385381.42	377997.3
Last Area					
Residual	0.193194	-0.723296	-1.13517	0.779868	2.57121
Rep StDev					
Rep %RSD					
Rep 1 Area	1134514	5363297	10358026	19269071	37799730
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:01	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	125	175
Area	48791538	67668432

Calibration Report

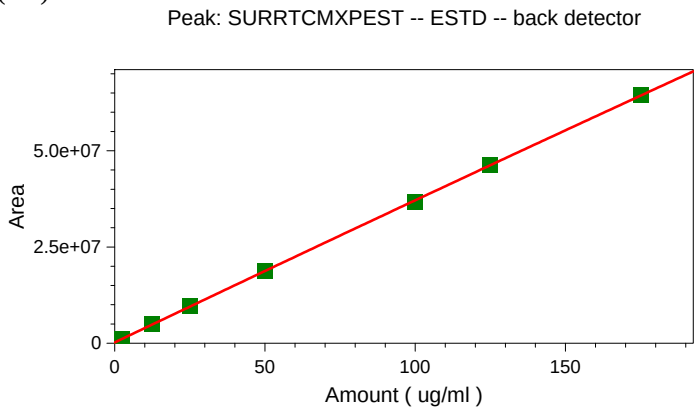
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:12
User: JJY
Instrument: Semi 1 (Offline)

RF	390332.304	386676.754285714
Last Area Residual	-1.15583	-0.721891
Rep StDev		
Rep %RSD		
Rep 1 Area	48791538	67668432
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:18
User: JJY
Instrument: Semi 1 (Offline)

SURRTCMXPEST (back detector)
Average RF: 386608. RF StDev: 25348.7 RF %RSD: 6.55670
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -38.2384x^2 + 373152.x + 202310.
Goodness of fit (r^2): 0.999863



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	2.5	12.5	25	50	100
Area	1088249	5066054	9625480	18785541	36570880
RF	435299.6	405284.32	385019.2	375710.82	365708.8
Last Area					
Residual	0.12522	-0.551666	-0.318577	-0.057453	1.54354
Rep StDev					
Rep %RSD					
Rep 1 Area	1088249	5066054	9625480	18785541	36570880
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	125	175
Area	46239756	64630027
RF	369918.048	369314.44

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:18
User: JJY
Instrument: Semi 1 (Offline)

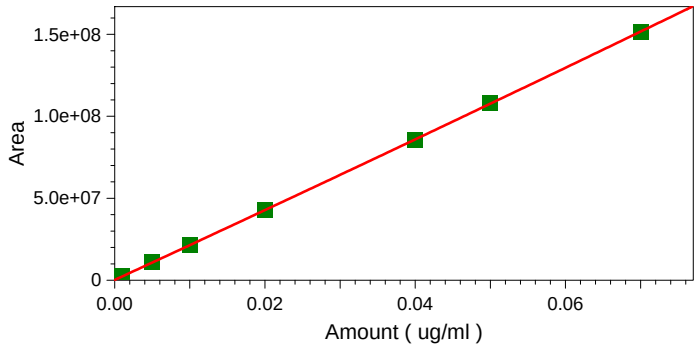
Last Area Residual	0.025025	-0.825992
Rep StDev		
Rep %RSD		
Rep 1 Area	46239756	64630027
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:20
User: JJY
Instrument: Semi 1 (Offline)

ALPHABHC (back detector)
Average RF: 2.17486e+009 RF StDev: 5.25620e+007 RF %RSD: 2.41680
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 7.22108e+008x^2 + 2.11398e+009x + 202757.
Goodness of fit (r^2): 0.999973

Peak: ALPHABHC -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2285033	10959081	21469964	42740516	85335764
RF	2285033000	2191816200	2146996400	2137025800	2133394100
Last Area					
Residual	1.53293e-005	-7.93688e-005	-2.59238e-005	1.4337e-005	0.000267845
Rep StDev					
Rep %RSD					
Rep 1 Area	2285033	10959081	21469964	42740516	85335764
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	108068310	151788296

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:20
User: JJY
Instrument: Semi 1 (Offline)

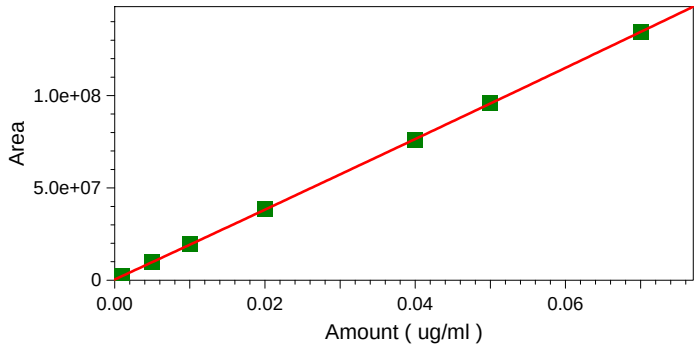
RF	2161366200	2168404228.57143
Last Area Residual	-0.000165204	-3.09138e-005
Rep StDev		
Rep %RSD		
Rep 1 Area	108068310	151788296
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:22
User: JJY
Instrument: Semi 1 (Offline)

LINDANE (back detector)
Average RF: 1.97076e+009 RF StDev: 1.13641e+008 RF %RSD: 5.76633
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 4.68837e+008x^2 + 1.88327e+009x + 371905.
Goodness of fit (r^2): 0.999950

Peak: LINDANE -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2220508	9918346	19387391	38347793	75685982
RF	2220508000	1983669200	1938739100	1917389650	1892149550
Last Area					
Residual	1.86478e-005	-6.26947e-005	-7.18004e-005	-6.46348e-005	0.0003993
Rep StDev					
Rep %RSD					
Rep 1 Area	2220508	9918346	19387391	38347793	75685982
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	95895556	134746874

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:22
User: JJY
Instrument: Semi 1 (Offline)

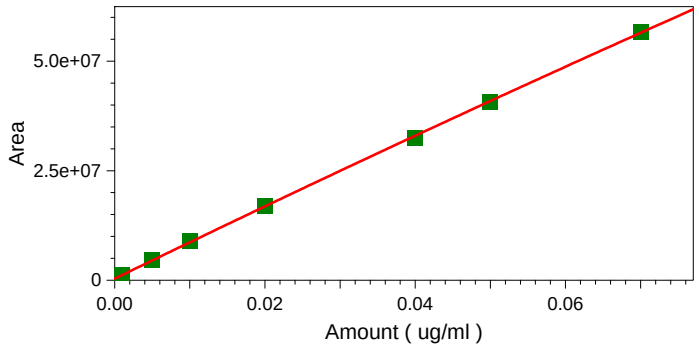
RF	1917911120	1924955342.85714
Last Area Residual	-9.74108e-005	-0.000127615
Rep StDev		
Rep %RSD		
Rep 1 Area	95895556	134746874
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:23
User: JJY
Instrument: Semi 1 (Offline)

BETABHC (back detector)
Average RF: 8.91687e+008 RF StDev: 1.23895e+008 RF %RSD: 13.8945
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.64665e+008x^2 + 8.34203e+008x + 354372.
Goodness of fit (r^2): 0.999857

Peak: BETABHC -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1158351	4540032	8917065	16874791	32552966
RF	1158351000	908006400	891706500	843739550	813824150
Last Area Residual	3.57136e-005	-3.16559e-005	-0.000323884	-2.72422e-005	0.00053441
Rep StDev					
Rep %RSD					
Rep 1 Area	1158351	4540032	8917065	16874791	32552966
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	40752437	56779154

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:23
User: JJY
Instrument: Semi 1 (Offline)

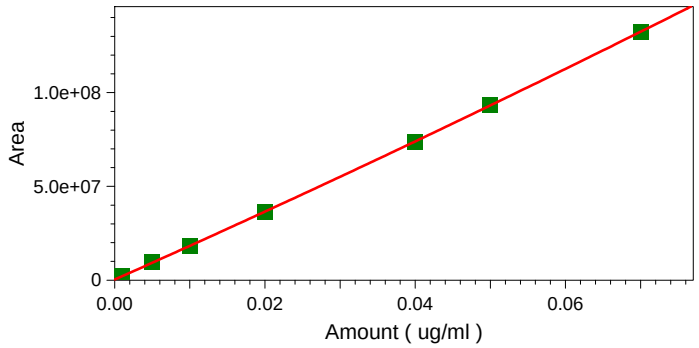
RF	815048740	811130771.428571
Last Area Residual	0.000190952	-0.000399772
Rep StDev		
Rep %RSD		
Rep 1 Area	40752437	56779154
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:25
User: JJY
Instrument: Semi 1 (Offline)

DELTABHC (back detector)
Average RF: 1.89655e+009 RF StDev: 1.01931e+008 RF %RSD: 5.37458
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.53271e+009x^2 + 1.77955e+009x + 370280.
Goodness of fit (r^2): 0.999988

Peak: DELTABHC -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2119565	9465950	18346043	36556683	73656276
RF	2119565000	1893190000	1834604300	1827834150	1841406900
Last Area					
Residual	1.78361e-005	-8.89233e-005	-1.49284e-005	9.57037e-006	0.000183088
Rep StDev					
Rep %RSD					
Rep 1 Area	2119565	9465950	18346043	36556683	73656276
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	93256419	132587867

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:25
User: JJY
Instrument: Semi 1 (Offline)

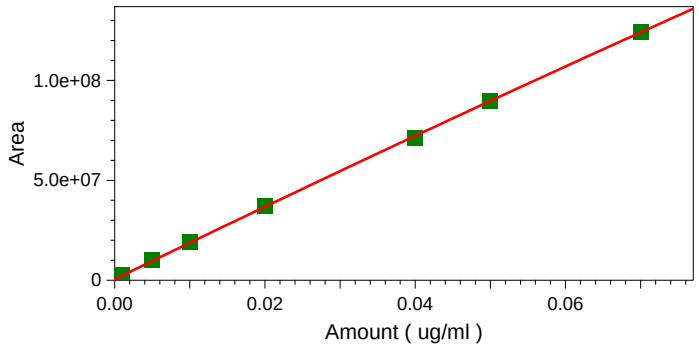
RF	1865128380	1894112385.71429
Last Area Residual	-3.9849e-005	-6.97169e-005
Rep StDev		
Rep %RSD		
Rep 1 Area	93256419	132587867
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:27
User: JJY
Instrument: Semi 1 (Offline)

HEPTACHLOR (back detector)
Average RF: 1.90310e+009 RF StDev: 1.70597e+008 RF %RSD: 8.96417
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -9.75001e+008x^2 + 1.83357e+009x + 486256.
Goodness of fit (r^2): 0.999912

Peak: HEPTACHLOR -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2256826	9852145	18925830	36893275	71378459
RF	2256826000	1970429000	1892583000	1844663750	1784461475
Last Area					
Residual	3.3864e-005	-0.000121951	-0.000111	-6.99756e-005	0.000507208
Rep StDev					
Rep %RSD					
Rep 1 Area	2256826	9852145	18925830	36893275	71378459
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	89704678	124506938

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:27
User: JJY
Instrument: Semi 1 (Offline)

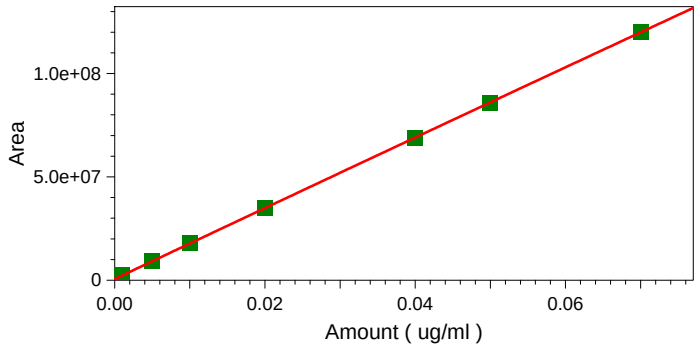
RF	1794093560	1778670542.85714
Last Area Residual	1.3073e-005	-0.000264094
Rep StDev		
Rep %RSD		
Rep 1 Area	89704678	124506938
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:28
User: JJY
Instrument: Semi 1 (Offline)

ALDRIN (back detector)
Average RF: 1.83251e+009 RF StDev: 1.96166e+008 RF %RSD: 10.7048
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.04207e+008x^2 + 1.71931e+009x + 597418.
Goodness of fit (r^2): 0.999955

Peak: ALDRIN -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	2253590	9464282	17843036	34933989	68611387
RF	2253590000	1892856400	1784303600	1746699450	1715284675
Last Area					
Residual	3.66127e-005	-0.000160384	-4.2522e-005	-1.87274e-005	0.0002535
Rep StDev					
Rep %RSD					
Rep 1 Area	2253590	9464282	17843036	34933989	68611387
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	85765107	120365325

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:28
User: JJY
Instrument: Semi 1 (Offline)

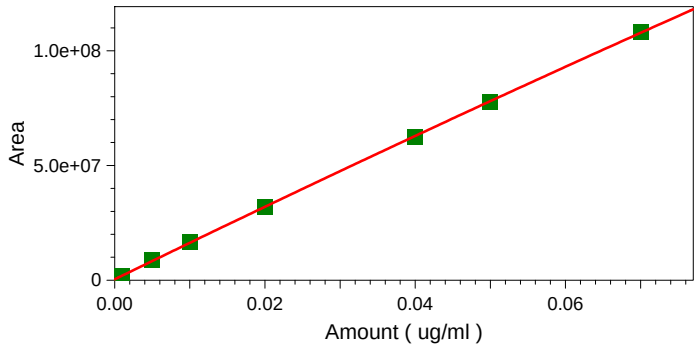
RF	1715302140	1719504642.85714
Last Area Residual	0.000169116	-0.000246524
Rep StDev		
Rep %RSD		
Rep 1 Area	85765107	120365325
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:30
User: JJY
Instrument: Semi 1 (Offline)

HEPTAEPOX (back detector)
Average RF: 1.65250e+009 RF StDev: 1.37351e+008 RF %RSD: 8.31169
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -9.21824e+008x^2 + 1.59924e+009x + 397561.
Goodness of fit (r^2): 0.999889

Peak: HEPTAEPOX -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1927423	8628971	16518367	32089357	62255508
RF	1927423000	1725794200	1651836700	1604467850	1556387700
Last Area Residual	4.28517e-005	-0.000162448	-0.000139573	-4.85097e-005	0.00041721
Rep StDev					
Rep %RSD					
Rep 1 Area	1927423	8628971	16518367	32089357	62255508
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	77637051	108420680

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:30
User: JJY
Instrument: Semi 1 (Offline)

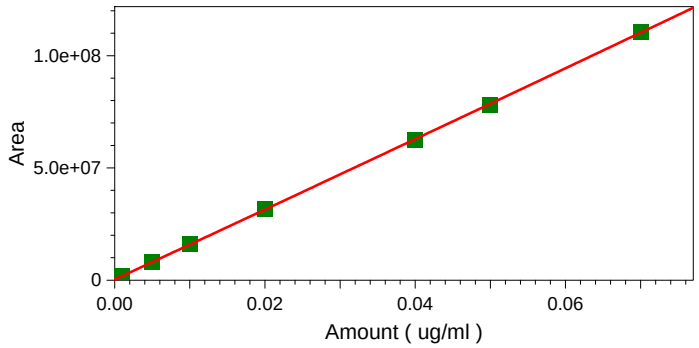
RF	1552741020	1548866857.14286
Last Area Residual	0.000277179	-0.000403776
Rep StDev		
Rep %RSD		
Rep 1 Area	77637051	108420680
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:31
User: JJY
Instrument: Semi 1 (Offline)

GAMMACHLOR (back detector)
Average RF: 1.62277e+009 RF StDev: 9.09292e+007 RF %RSD: 5.60334
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.46560e+008x^2 + 1.55320e+009x + 314459.
Goodness of fit (r^2): 0.999911

Peak: GAMMACHLOR -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1814927	8277807	16060587	31596683	62239223
RF	1814927000	1655561400	1606058700	1579834150	1555980575
Last Area Residual	3.40961e-005	-0.000122907	-0.000121628	-7.65718e-005	0.000379925
Rep StDev					
Rep %RSD					
Rep 1 Area	1814927	8277807	16060587	31596683	62239223
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	78212100	110793886
RF	1564242000	1582769800

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:31
User: JJY
Instrument: Semi 1 (Offline)

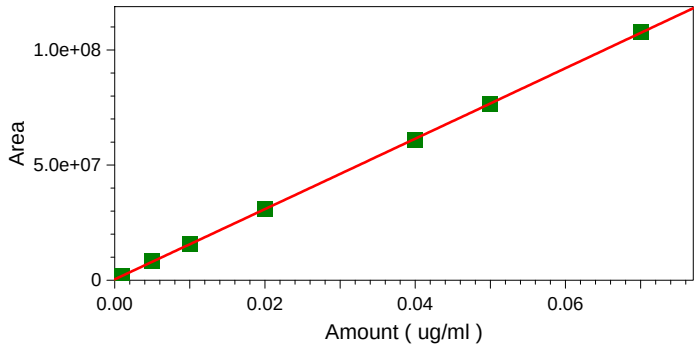
Last Area Residual	0.000239917	-0.000344873
Rep StDev		
Rep %RSD		
Rep 1 Area	78212100	110793886
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:33
User: JJY
Instrument: Semi 1 (Offline)

ALPHACHLOR (back detector)
Average RF: 1.59982e+009 RF StDev: 1.08570e+008 RF %RSD: 6.78637
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.67610e+007x^2 + 1.52495e+009x + 368429.
Goodness of fit (r^2): 0.999866

Peak: ALPHACHLOR -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1823791	8258324	15845186	31010445	60707865
RF	1823791000	1651664800	1584518600	1550522250	1517696625
Last Area					
Residual	4.56647e-005	-0.000172888	-0.000145219	-7.88264e-005	0.000489868
Rep StDev					
Rep %RSD					
Rep 1 Area	1823791	8258324	15845186	31010445	60707865
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	76359911	108033429
RF	1527198220	1543334700

Calibration Report

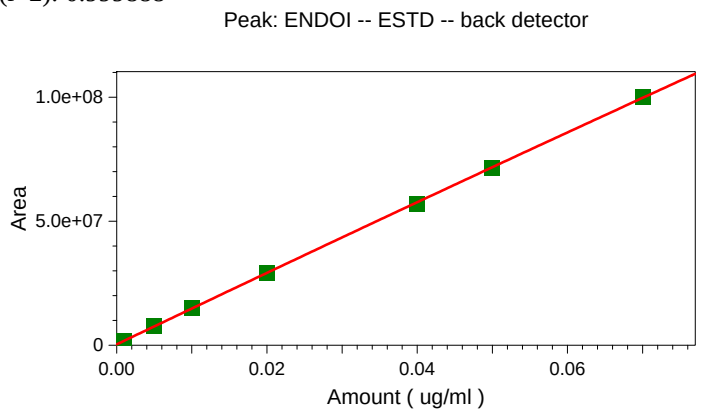
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:33
User: JJY
Instrument: Semi 1 (Offline)

Last Area Residual	0.000259855	-0.000417916
Rep StDev		
Rep %RSD		
Rep 1 Area	76359911	108033429
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:35
User: JJY
Instrument: Semi 1 (Offline)

ENDOI (back detector)
Average RF: 1.50624e+009 RF StDev: 1.10687e+008 RF %RSD: 7.34854
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.38295e+008x^2 + 1.45104e+009x + 339017.
Goodness of fit (r^2): 0.999888



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1733114	7785358	15003548	29292621	57128366
RF	1733114000	1557071600	1500354800	1464631050	1428209150
Last Area					
Residual	3.89647e-005	-0.000139702	-0.000137253	-7.54095e-005	0.000389103
Rep StDev					
Rep %RSD					
Rep 1 Area	1733114	7785358	15003548	29292621	57128366
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	71351639	100328700

Calibration Report

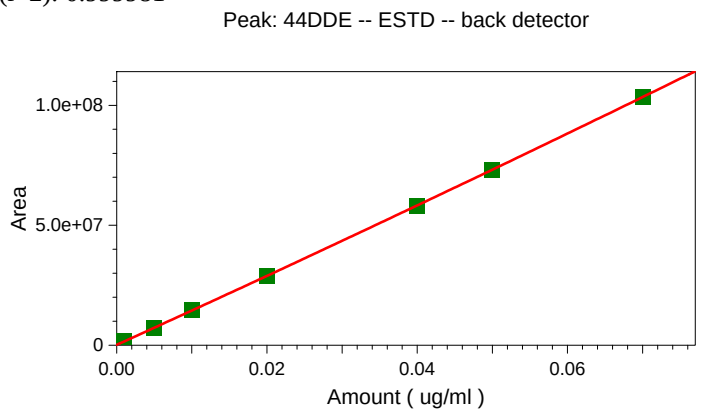
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Print Time: 11/18/2019 09:08:35
User: JJY
Instrument: Semi 1 (Offline)

RF	1427032780	1433267142.85714
Last Area Residual	0.000315274	-0.000406221
Rep StDev		
Rep %RSD		
Rep 1 Area	71351639	100328700
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:36
User: JJY
Instrument: Semi 1 (Offline)

44DDE (back detector)
Average RF: 1.47479e+009 RF StDev: 3.97658e+007 RF %RSD: 2.69636
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 7.65308e+008x^2 + 1.42226e+009x + 155232.
Goodness of fit (r^2): 0.999981



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1561402	7329397	14559678	28963505	58025811
RF	1561402000	1465879400	1455967800	1448175250	1450645275
Last Area Residual	1.18387e-005	-3.05832e-005	-7.32565e-005	-3.91975e-005	0.000164703
Rep StDev					
Rep %RSD					
Rep 1 Area	1561402	7329397	14559678	28963505	58025811
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	73002786	103700653
RF	1460055720	1481437900

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:36
User: JJY
Instrument: Semi 1 (Offline)

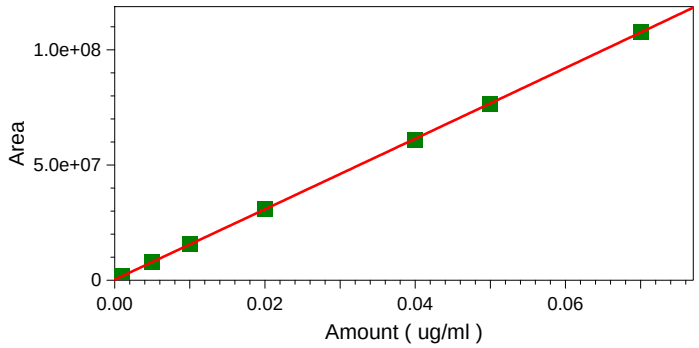
Last Area Residual	0.000119247	-0.000155089
Rep StDev		
Rep %RSD		
Rep 1 Area	73002786	103700653
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:38
User: JJY
Instrument: Semi 1 (Offline)

DIELDRIN (back detector)
Average RF: 1.58373e+009 RF StDev: 8.52332e+007 RF %RSD: 5.38180
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.22694e+008x^2 + 1.52366e+009x + 283840.
Goodness of fit (r^2): 0.999944

Peak: DIELDRIN -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1764932	8055655	15708832	30857050	60978947
RF	1764932000	1611131000	1570883200	1542852500	1524473675
Last Area					
Residual	2.80168e-005	-9.86456e-005	-0.000115375	-3.32604e-005	0.000292013
Rep StDev					
Rep %RSD					
Rep 1 Area	1764932	8055655	15708832	30857050	60978947
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	76470933	107969653

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:38
User: JJY
Instrument: Semi 1 (Offline)

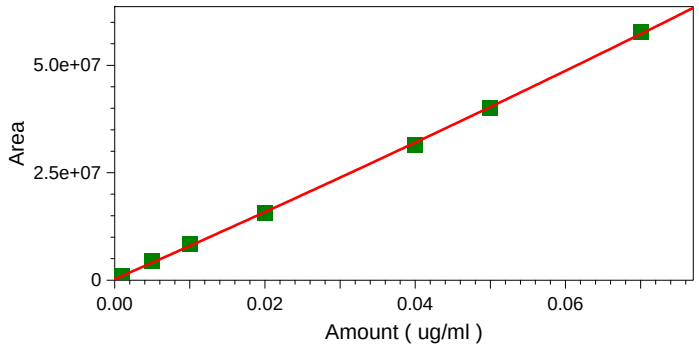
RF	1529418660	1542423614.28571
Last Area Residual	0.000197193	-0.000277824
Rep StDev		
Rep %RSD		
Rep 1 Area	76470933	107969653
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:40
User: JJY
Instrument: Semi 1 (Offline)

ENDRIN (back detector)
Average RF: 8.33325e+008 RF StDev: 5.23392e+007 RF %RSD: 6.28076
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 6.71333e+008x^2 + 7.67769e+008x + 233847.
Goodness of fit (r^2): 0.999597

Peak: ENDRIN -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	922081	4422166	8316473	15670665	31438122
RF	922081000	884433200	831647300	783533250	785953050
Last Area					
Residual	0.000104293	-0.000429407	-0.000432259	0.000235495	0.000707201
Rep StDev					
Rep %RSD					
Rep 1 Area	922081	4422166	8316473	15670665	31438122
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	39952286	57860763

Calibration Report

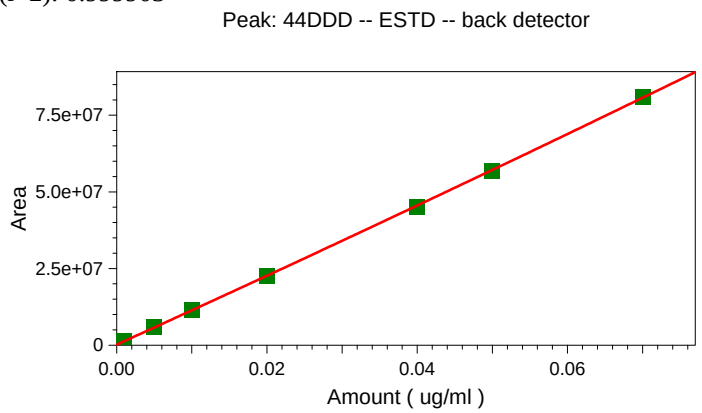
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:40
User: JJY
Instrument: Semi 1 (Offline)

RF	799045720	826582328.571429
Last Area Residual	0.000417359	-0.000688414
Rep StDev		
Rep %RSD		
Rep 1 Area	39952286	57860763
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:41
User: JJY
Instrument: Semi 1 (Offline)

44DDD (back detector)
Average RF: 1.16690e+009 RF StDev: 4.89181e+007 RF %RSD: 4.19215
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.42460e+008x^2 + 1.11192e+009x + 199517.
Goodness of fit (r^2): 0.999903



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1268214	5921186	11608721	22617183	45103791
RF	1268214000	1184237200	1160872100	1130859150	1127594775
Last Area Residual	3.93219e-005	-0.000132905	-0.000209963	3.3263e-005	0.000381298
Rep StDev					
Rep %RSD					
Rep 1 Area	1268214	5921186	11608721	22617183	45103791
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	56891613	81107302

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:41
User: JJY
Instrument: Semi 1 (Offline)

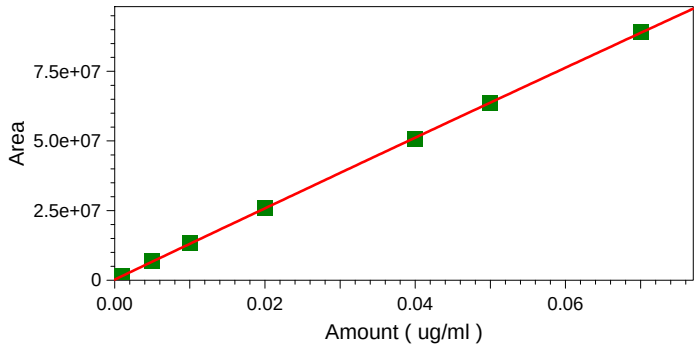
RF	1137832260	1158675742.85714
Last Area Residual	0.000222999	-0.00034962
Rep StDev		
Rep %RSD		
Rep 1 Area	56891613	81107302
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:43
User: JJY
Instrument: Semi 1 (Offline)

ENDOII (back detector)
Average RF: 1.32371e+009 RF StDev: 7.15145e+007 RF %RSD: 5.40259
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.77521e+008x^2 + 1.28475e+009x + 234166.
Goodness of fit (r^2): 0.999870

Peak: ENDOII -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1457195	6890623	13307254	25795080	50583830
RF	1457195000	1378124600	1330725400	1289754000	1264595750
Last Area					
Residual	4.78433e-005	-0.000186954	-0.000198079	1.80713e-005	0.000472156
Rep StDev					
Rep %RSD					
Rep 1 Area	1457195	6890623	13307254	25795080	50583830
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	63474117	89325060

Calibration Report

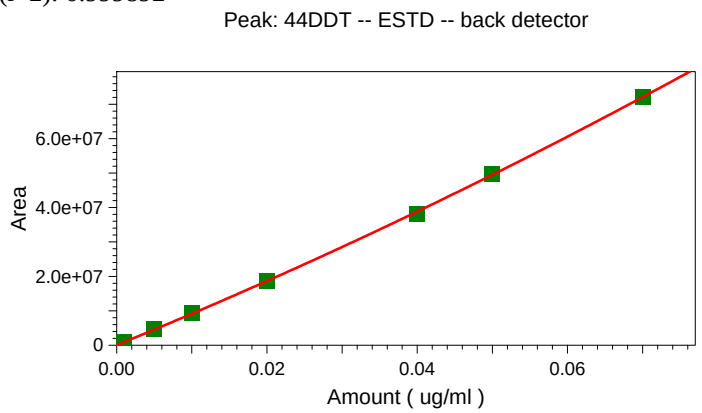
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:43
User: JJY
Instrument: Semi 1 (Offline)

RF	1269482340	1276072285.71429
Last Area Residual	0.000241511	-0.000416173
Rep StDev		
Rep %RSD		
Rep 1 Area	63474117	89325060
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:45
User: JJY
Instrument: Semi 1 (Offline)

44DDT (back detector)
Average RF: 9.54177e+008 RF StDev: 4.40040e+007 RF %RSD: 4.61173
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.98733e+009x^2 + 8.89679e+008x + 43347.2
Goodness of fit (r^2): 0.999892



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	906695	4661468	9275650	18626054	38218120
RF	906695000	932293600	927565000	931302700	955453000
Last Area					
Residual	3.16909e-005	-0.000131941	-0.000147117	5.9955e-006	0.000565256
Rep StDev					
Rep %RSD					
Rep 1 Area	906695	4661468	9275650	18626054	38218120
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	49686550	72253787

Calibration Report

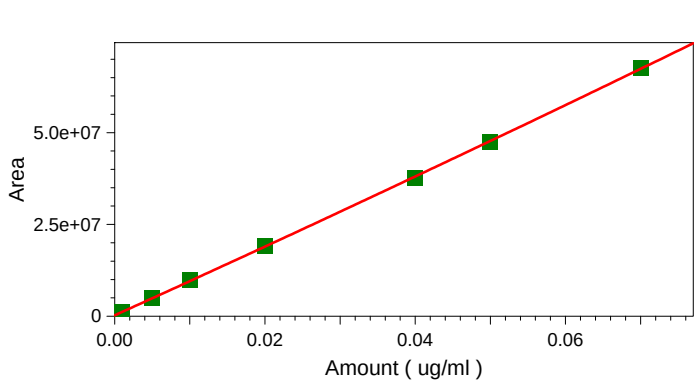
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:45
User: JJY
Instrument: Semi 1 (Offline)

RF	993731000	1032196957.14286
Last Area Residual	-0.000175344	-0.000166883
Rep StDev		
Rep %RSD		
Rep 1 Area	49686550	72253787
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:46
User: JJY
Instrument: Semi 1 (Offline)

ENDRINALDEH (back detector)
Average RF: 9.88281e+008 RF StDev: 6.74101e+007 RF %RSD: 6.82094
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 4.63254e+008x^2 + 9.26712e+008x + 244402.
Goodness of fit (r^2): 0.999869



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1134332	5003556	9725997	19052170	37543935
RF	1134332000	1000711200	972599700	952608500	938598375
Last Area					
Residual	4.01512e-005	-0.00012241	-0.000179636	-9.33337e-005	0.000529464
Rep StDev					
Rep %RSD					
Rep 1 Area	1134332	5003556	9725997	19052170	37543935
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	47555605	67760585

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:46
User: JJY
Instrument: Semi 1 (Offline)

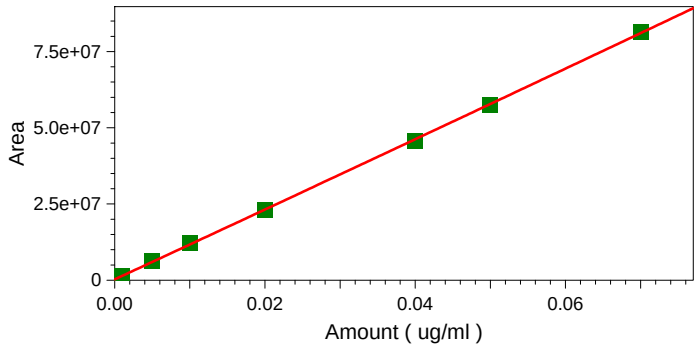
RF	951112100	968008357.142857
Last Area Residual	0.000187606	-0.000379533
Rep StDev		
Rep %RSD		
Rep 1 Area	47555605	67760585
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:48
User: JJY
Instrument: Semi 1 (Offline)

ENDOSULFATE (back detector)
Average RF: 1.20170e+009 RF StDev: 7.36316e+007 RF %RSD: 6.12729
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.59532e+008x^2 + 1.14275e+009x + 273339.
Goodness of fit (r^2): 0.999811

Peak: ENDOSULFATE -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1339746	6293665	12054012	23029663	45610914
RF	1339746000	1258733000	1205401200	1151483150	1140272850
Last Area					
Residual	6.69275e-005	-0.000264413	-0.000294266	0.000141396	0.000543226
Rep StDev					
Rep %RSD					
Rep 1 Area	1339746	6293665	12054012	23029663	45610914
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	57527606	81599626

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:48
User: JJY
Instrument: Semi 1 (Offline)

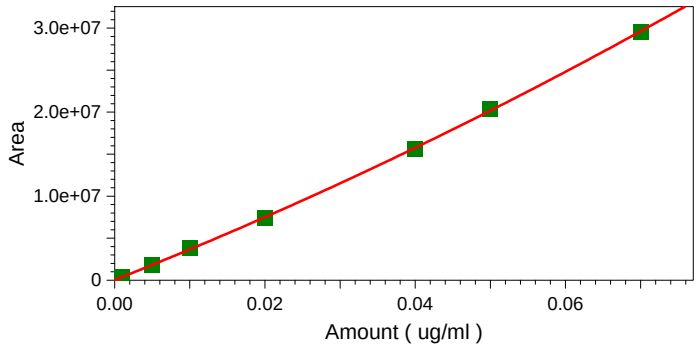
RF	1150552120	1165708942.85714
Last Area Residual	0.000243417	-0.000473852
Rep StDev		
Rep %RSD		
Rep 1 Area	57527606	81599626
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:50
User: JJY
Instrument: Semi 1 (Offline)

METHOXYCL (back detector)
Average RF: 3.88031e+008 RF StDev: 2.06267e+007 RF %RSD: 5.31574
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 9.87182e+008x^2 + 3.53543e+008x + 33873.6
Goodness of fit (r^2): 0.999889

Peak: METHOXYCL -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	382422	1827793	3789216	7383785	15609713
RF	382422000	365558600	378921600	369189250	390242825
Last Area					
Residual	1.68257e-005	-4.19879e-006	-0.000324396	0.000294896	0.000336345
Rep StDev					
Rep %RSD					
Rep 1 Area	382422	1827793	3789216	7383785	15609713
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	20351495	29599590

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:50
User: JJY
Instrument: Semi 1 (Offline)

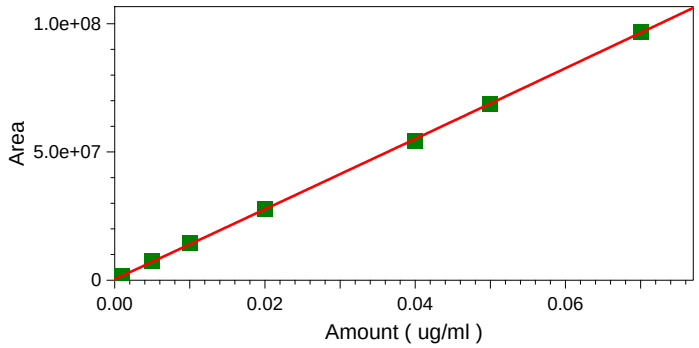
RF	407029900	422851285.714286
Last Area Residual	-0.00038116	3.95974e-005
Rep StDev		
Rep %RSD		
Rep 1 Area	20351495	29599590
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:52
User: JJY
Instrument: Semi 1 (Offline)

ENDRINKETONE (back detector)
Average RF: 1.43914e+009 RF StDev: 1.04821e+008 RF %RSD: 7.28359
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.45664e+008x^2 + 1.36312e+009x + 362039.
Goodness of fit (r^2): 0.999872

Peak: ENDRINKETONE -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.001	0.005	0.01	0.02	0.04
Area	1656035	7418262	14349369	27583714	54432004
RF	1656035000	1483652400	1434936900	1379185700	1360800100
Last Area					
Residual	5.08036e-005	-0.000173678	-0.000250064	7.22543e-005	0.000500284
Rep StDev					
Rep %RSD					
Rep 1 Area	1656035	7418262	14349369	27583714	54432004
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	0.05	0.07
Area	68673695	97010558

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:52
User: JJY
Instrument: Semi 1 (Offline)

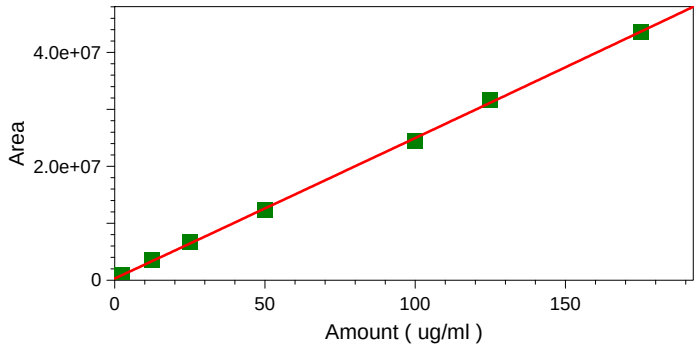
RF	1373473900	1385865114.28571
Last Area Residual	0.000151202	-0.000373416
Rep StDev		
Rep %RSD		
Rep 1 Area	68673695	97010558
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:53
User: JJY
Instrument: Semi 1 (Offline)

SURRDCBPEST (back detector)
Average RF: 269706. RF StDev: 36049.9 RF %RSD: 13.3664
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 12.4458x^2 + 245454.x + 295218.
Goodness of fit (r^2): 0.999566

Peak: SURRDCBPEST -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	2.5	12.5	25	50	100
Area	865467	3488482	6728146	12355772	24399140
RF	346186.8	279078.56	269125.84	247115.44	243991.4
Last Area					
Residual	0.17703	-0.501074	-1.17359	0.986028	2.28261
Rep StDev					
Rep %RSD					
Rep 1 Area	865467	3488482	6728146	12355772	24399140
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\013.dat	C:\Instarch\Semi1\data\111419pstic\014.dat	C:\Instarch\Semi1\data\111419pstic\015.dat	C:\Instarch\Semi1\data\111419pstic\016.dat	C:\Instarch\Semi1\data\111419pstic\017.dat
Rep 1 Sample ID	PEST ICAL 1 PP6024	PEST ICAL 2 PP6025	PEST ICAL 3 PP6026	PEST ICAL 4 PP6027	PEST ICAL 5 PP6028
Rep 1 Calib. Time	11/15/2019 11:47:39	11/15/2019 11:47:50	11/15/2019 11:48:02	11/15/2019 11:48:13	11/15/2019 11:48:23

	Level 6	Level 7
Amount	125	175
Area	31606113	43679520

Calibration Report

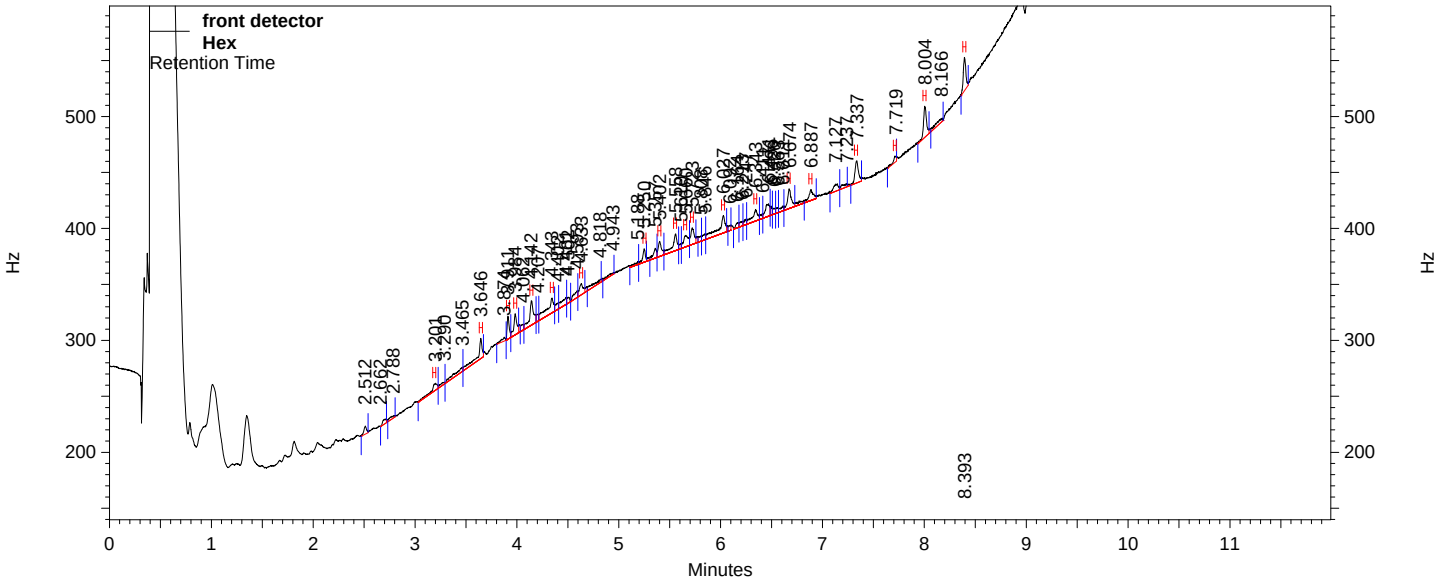
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:53
User: JJY
Instrument: Semi 1 (Offline)

RF	252848.904	249597.257142857
Last Area Residual	-1.74882	-0.195252
Rep StDev		
Rep %RSD		
Rep 1 Area	31606113	43679520
Rep 1 User	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\018.dat	C:\Instarch\Semi1\data\111419pstic\019.dat
Rep 1 Sample ID	PEST ICAL 6 PP6029	PEST ICAL 7 PP6030
Rep 1 Calib. Time	11/15/2019 11:48:33	11/15/2019 11:48:45

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\012.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: Hex
Acquired: 11/14/2019 19:00:07
Printed: 11/18/2019 08:41:48

Data Summary: {Data Description}



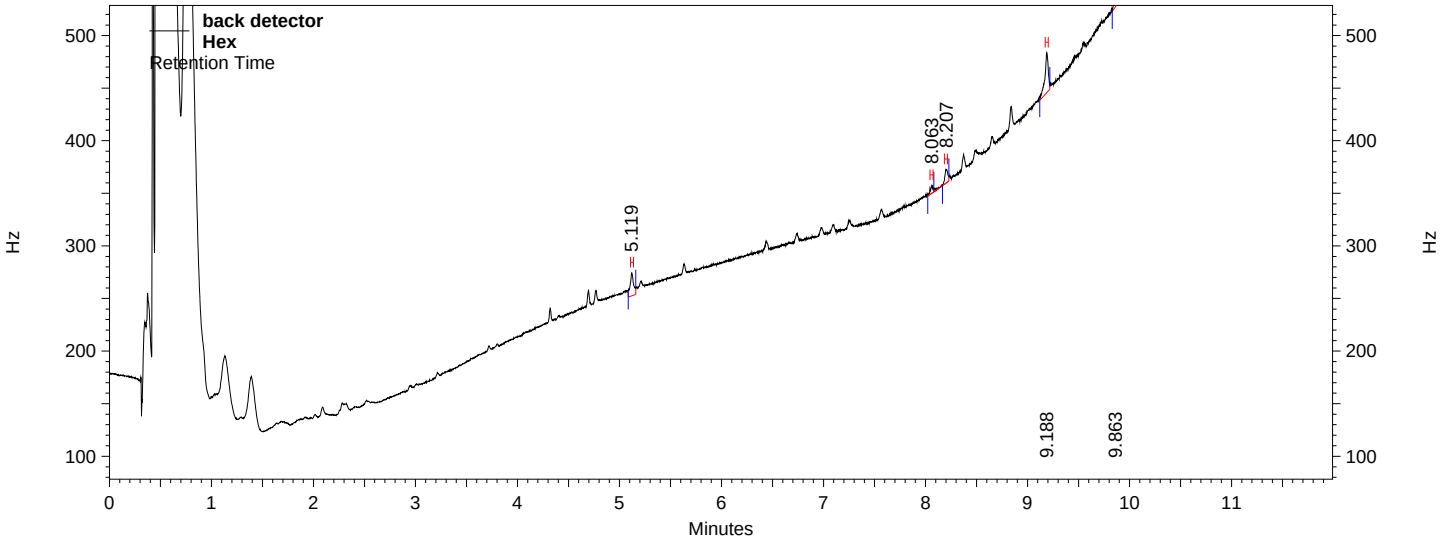
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.201	187782	0.0000
ALPHABHC	3.646	414396	0.0002
LINDANE	3.911	222607	0.0001
BETABHC	3.984	316499	0.0001
DELTABHC	4.142	483831	0.0002
HEPTACHLOR	4.343	480427	0.0000
ALDRIN	4.633	203690	0.0000
HEPTAEPOX	5.250	164688	0.0000
GAMMACHLOR	5.402	237762	0.0000
ALPHACHLOR	5.558	371934	0.0000
44DDE	5.660	261179	0.0001
ENDOI	5.723	274100	0.0000
DIELDRIN	6.027	546653	0.0001
ENDRIN	6.343	291214	0.0000
44DDD			0.0000 BDL
ENDOII	6.674	363220	0.0000
44DDT	6.887	234181	0.0002
ENDRINALDEH	7.337	358394	0.0001
METHOXYCL	7.719	83339	0.0003
ENDOSULFATE	8.004	443606	0.0001
ENDRINKETONE	8.393	398453	0.0001
SURRDCBPEST	9.710	166069	0.0000

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\012.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: Hex
Acquired: 11/14/2019 19:00:07
Printed: 11/18/2019 08:41:48

Data Summary: {Data Description}



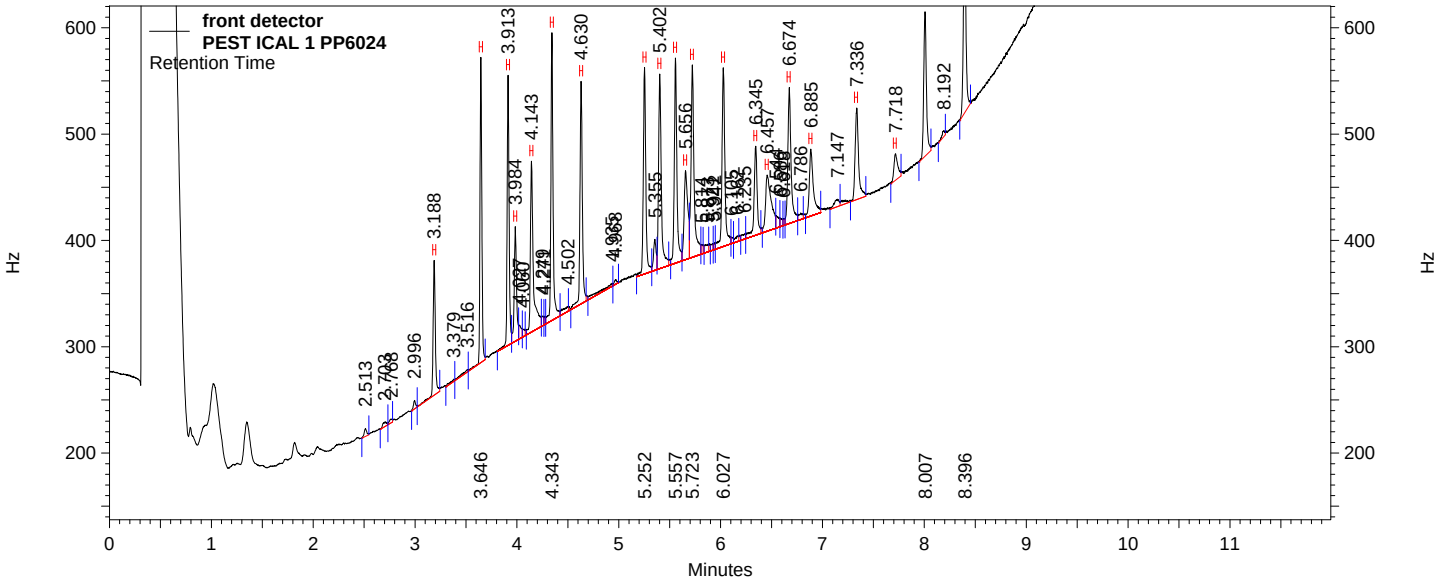
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST			0.0000 BDL
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC	5.119	398282	0.0000
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
ENDOI			0.0000 BDL
44DDE			0.0000 BDL
DIELDRIN			0.0000 BDL
ENDRIN	8.063	105376	0.0000
44DDD	8.207	200299	0.0000
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
ENDOSULFATE	9.188	681390	0.0004
METHOXYCL			0.0000 BDL
ENDRINKETONE	9.863	318280	0.0000
SURRDCBPEST			0.0000 BDL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\013.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 1 PP6024
Acquired: 11/14/2019 19:16:27
Printed: 11/18/2019 08:41:50

Data Summary: {Data Description}



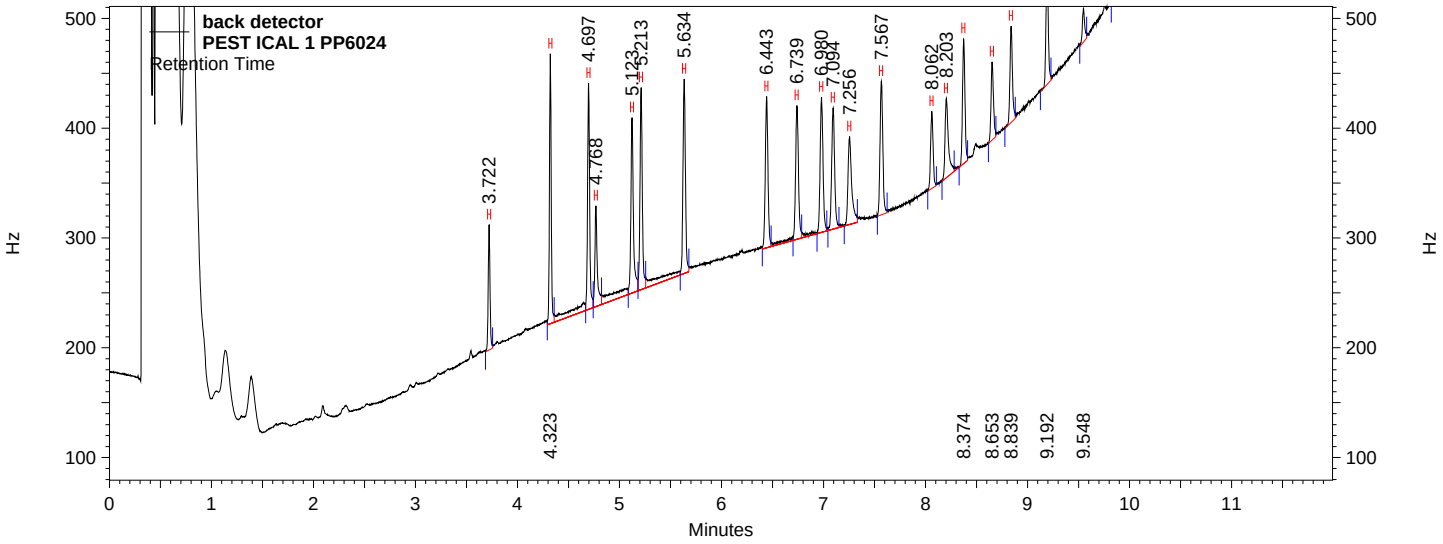
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.188	1476283	2.5000 CAL
ALPHABHC	3.646	2707729	0.0010 CAL
LINDANE	3.913	2542287	0.0010 CAL
BETABHC	3.984	1313467	0.0010 CAL
DELTABHC	4.143	2520638	0.0010 CAL
HEPTACHLOR	4.343	3108733	0.0010 CAL
ALDRIN	4.630	2575381	0.0010 CAL
HEPTAEPOX	5.252	2560420	0.0010 CAL
GAMMACHLOR	5.402	2642693	0.0010 CAL
ALPHACHLOR	5.557	2658961	0.0010 CAL
44DDE	5.656	1640328	0.0010 CAL
ENDOI	5.723	2925453	0.0010 CAL
DIELDRIN	6.027	2591591	0.0010 CAL
ENDRIN	6.345	1374372	0.0010 CAL
44DDD	6.457	1567359	0.0010 CAL
ENDOII	6.674	2173974	0.0010 CAL
44DDT	6.885	1334860	0.0010 CAL
ENDRINALDEH	7.336	1566182	0.0010 CAL
METHOXYCL	7.718	503421	0.0010 CAL
ENDOSULFATE	8.007	1947616	0.0010 CAL
ENDRINKETONE	8.396	2351911	0.0010 CAL
SURRDCBPEST	9.706	1134514	2.5000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\013.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 1 PP6024
Acquired: 11/14/2019 19:16:27
Printed: 11/18/2019 08:41:50

Data Summary: {Data Description}



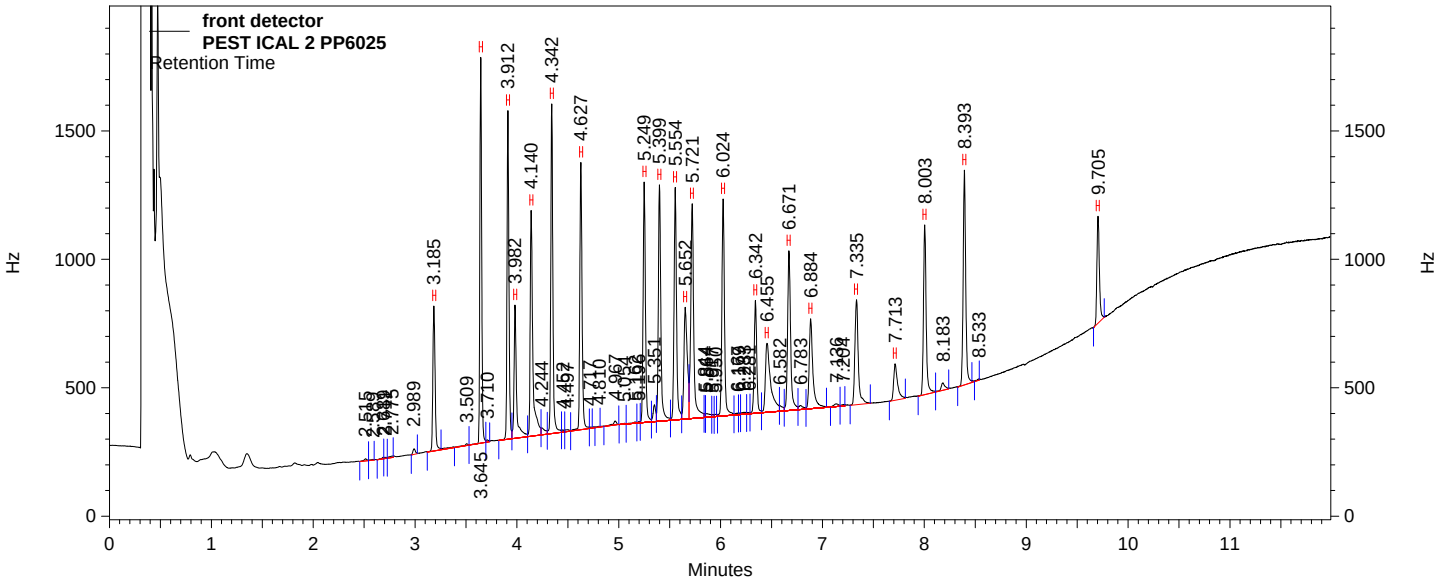
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.722	1088249	2.5000 CAL
ALPHABHC	4.323	2285033	0.0010 CAL
LINDANE	4.697	2220508	0.0010 CAL
BETABHC	4.768	1158351	0.0010 CAL
DELTABHC	5.123	2119565	0.0010 CAL
HEPTACHLOR	5.213	2256826	0.0010 CAL
ALDRIN	5.634	2253590	0.0010 CAL
HEPTAEPOX	6.443	1927423	0.0010 CAL
GAMMACHLOR	6.739	1814927	0.0010 CAL
ALPHACHLOR	6.980	1823791	0.0010 CAL
ENDOI	7.094	1733114	0.0010 CAL
44DDE	7.256	1561402	0.0010 CAL
DIELDRIN	7.567	1764932	0.0010 CAL
ENDRIN	8.062	922081	0.0010 CAL
44DDD	8.203	1268214	0.0010 CAL
ENDOII	8.374	1457195	0.0010 CAL
44DDT	8.653	906695	0.0010 CAL
ENDRINALDEH	8.839	1134332	0.0010 CAL
ENDOSULFATE	9.192	1339746	0.0010 CAL
METHOXYCL	9.548	382422	0.0010 CAL
ENDRINKETONE	9.862	1656035	0.0010 CAL
SURRDCBPEST	11.416	865467	2.5000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\014.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 2 PP6025
Acquired: 11/14/2019 19:32:50
Printed: 11/18/2019 08:41:53

Data Summary: {Data Description}



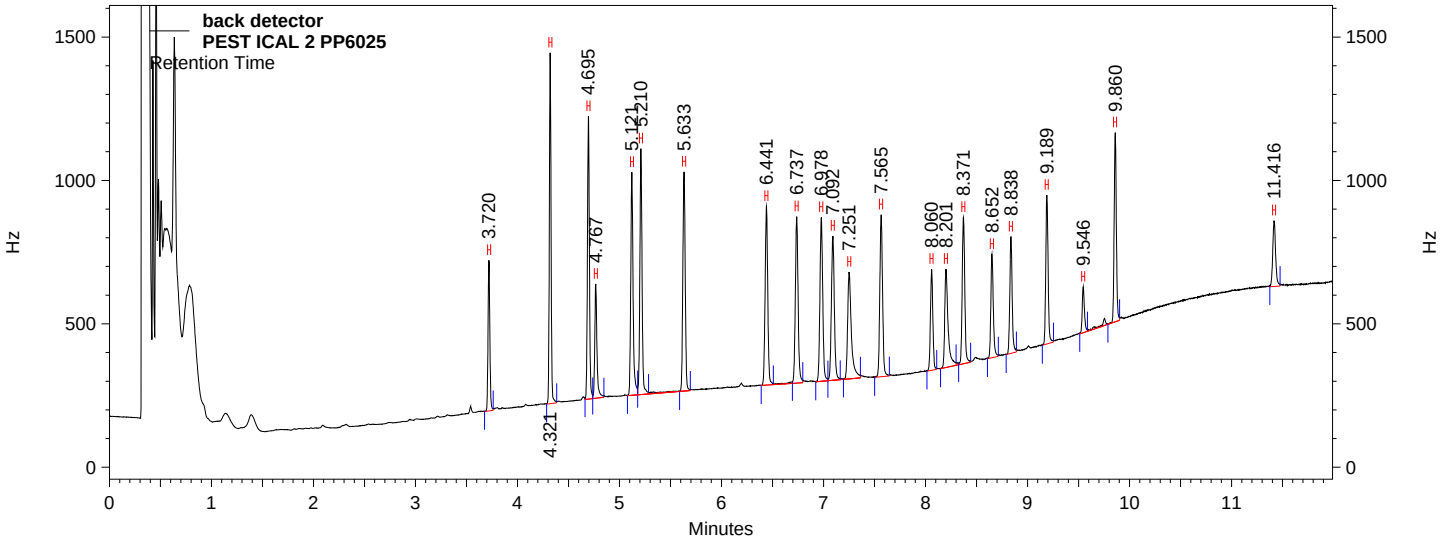
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.185	6745632	12.5000 CAL
ALPHABHC	3.645	14138510	0.0050 CAL
LINDANE	3.912	12539000	0.0050 CAL
BETABHC	3.982	6767777	0.0050 CAL
DELTABHC	4.140	12100930	0.0050 CAL
HEPTACHLOR	4.342	14155791	0.0050 CAL
ALDRIN	4.627	12139642	0.0050 CAL
HEPTAEPOX	5.249	11470422	0.0050 CAL
GAMMACHLOR	5.399	11873923	0.0050 CAL
ALPHACHLOR	5.554	11791848	0.0050 CAL
44DDE	5.652	7699873	0.0050 CAL
ENDOI	5.721	13240083	0.0050 CAL
DIELDRIN	6.024	11400138	0.0050 CAL
ENDRIN	6.342	5834350	0.0050 CAL
44DDD	6.455	7388432	0.0050 CAL
ENDOII	6.671	9829203	0.0050 CAL
44DDT	6.884	6755633	0.0050 CAL
ENDRINALDEH	7.335	7255463	0.0050 CAL
METHOXYCL	7.713	2910283	0.0050 CAL
ENDOSULFATE	8.003	9289906	0.0050 CAL
ENDRINKETONE	8.393	11137395	0.0050 CAL
SURRDCBPEST	9.705	5363297	12.5000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\014.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 2 PP6025
Acquired: 11/14/2019 19:32:50
Printed: 11/18/2019 08:41:53

Data Summary: {Data Description}



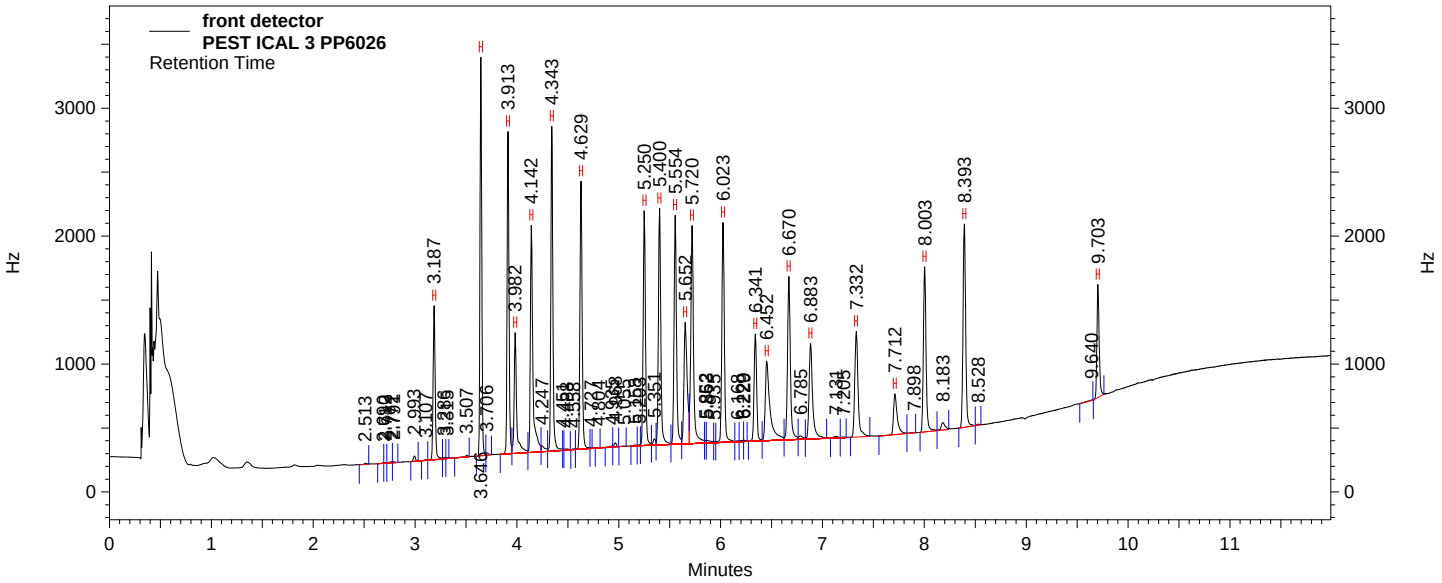
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.720	5066054	12.5000 CAL
ALPHABHC	4.321	10959081	0.0050 CAL
LINDANE	4.695	9918346	0.0050 CAL
BETABHC	4.767	4540032	0.0050 CAL
DELTABHC	5.121	9465950	0.0050 CAL
HEPTACHLOR	5.210	9852145	0.0050 CAL
ALDRIN	5.633	9464282	0.0050 CAL
HEPTAEPOX	6.441	8628971	0.0050 CAL
GAMMACHLOR	6.737	8277807	0.0050 CAL
ALPHACHLOR	6.978	8258324	0.0050 CAL
ENDOI	7.092	7785358	0.0050 CAL
44DDE	7.251	7329397	0.0050 CAL
DIELDRIN	7.565	8055655	0.0050 CAL
ENDRIN	8.060	4422166	0.0050 CAL
44DDD	8.201	5921186	0.0050 CAL
ENDOII	8.371	6890623	0.0050 CAL
44DDT	8.652	4661468	0.0050 CAL
ENDRINALDEH	8.838	5003556	0.0050 CAL
ENDOSULFATE	9.189	6293665	0.0050 CAL
METHOXYCL	9.546	1827793	0.0050 CAL
ENDRINKETONE	9.860	7418262	0.0050 CAL
SURRDCBPEST	11.416	3488482	12.5000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\015.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 3 PP6026
Acquired: 11/14/2019 19:49:14
Printed: 11/18/2019 08:41:56

Data Summary: {Data Description}



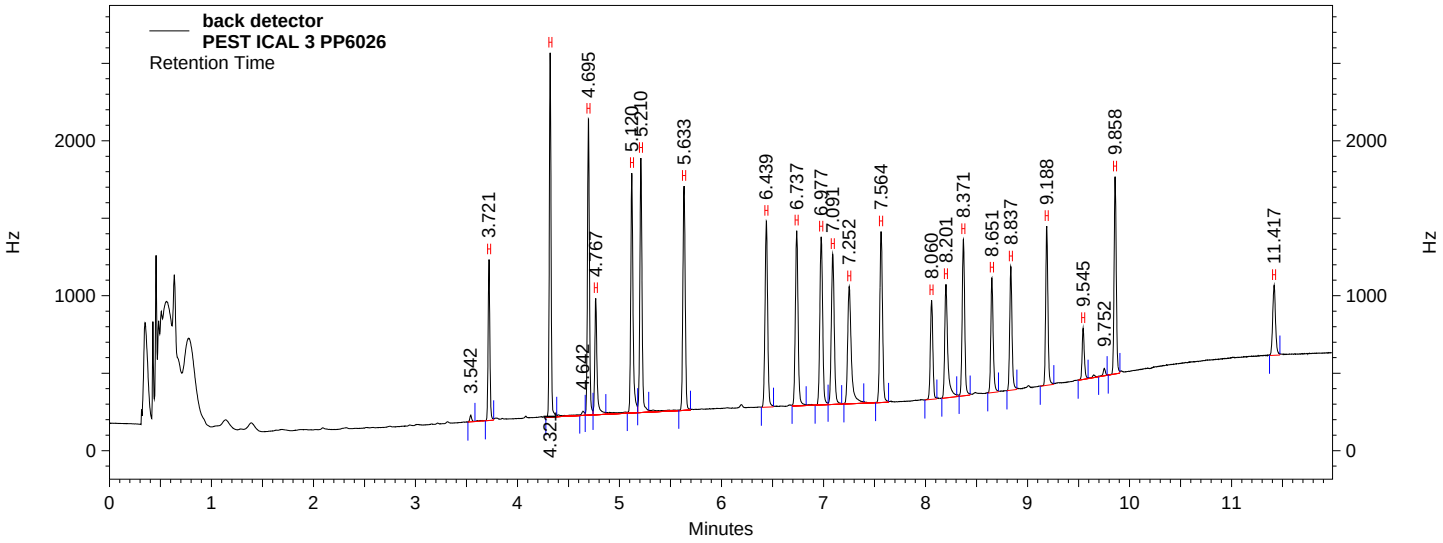
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.187	13093308	25.0000 CAL
ALPHABHC	3.646	28568710	0.0100 CAL
LINDANE	3.913	24555900	0.0100 CAL
BETABHC	3.982	12636259	0.0100 CAL
DELTABHC	4.142	23635142	0.0100 CAL
HEPTACHLOR	4.343	27346170	0.0100 CAL
ALDRIN	4.629	23957948	0.0100 CAL
HEPTAEPOX	5.250	22060751	0.0100 CAL
GAMMACHLOR	5.400	23218433	0.0100 CAL
ALPHACHLOR	5.554	22998674	0.0100 CAL
44DDE	5.652	16057765	0.0100 CAL
ENDOI	5.720	25065377	0.0100 CAL
DIELDRIN	6.023	22659197	0.0100 CAL
ENDRIN	6.341	11232811	0.0100 CAL
44DDD	6.452	15424878	0.0100 CAL
ENDOII	6.670	19339568	0.0100 CAL
44DDT	6.883	13909978	0.0100 CAL
ENDRINALDEH	7.332	14351663	0.0100 CAL
METHOXYCL	7.712	6169586	0.0100 CAL
ENDOSULFATE	8.003	18137708	0.0100 CAL
ENDRINKETONE	8.393	22058685	0.0100 CAL
SURRDCBPEST	9.703	10358026	25.0000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\015.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 3 PP6026
Acquired: 11/14/2019 19:49:14
Printed: 11/18/2019 08:41:56

Data Summary: {Data Description}



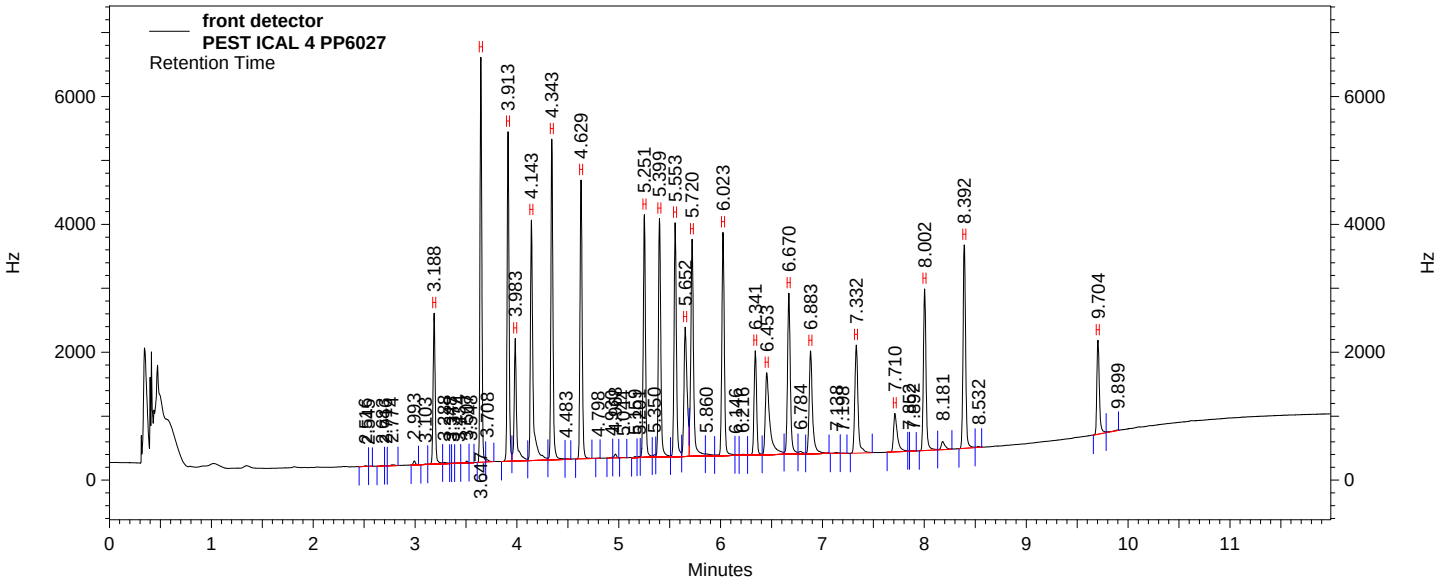
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.721	9625480	25.0000 CAL
ALPHABHC	4.321	21469964	0.0100 CAL
LINDANE	4.695	19387391	0.0100 CAL
BETABHC	4.767	8917065	0.0100 CAL
DELTABHC	5.120	18346043	0.0100 CAL
HEPTACHLOR	5.210	18925830	0.0100 CAL
ALDRIN	5.633	17843036	0.0100 CAL
HEPTAEPOX	6.439	16518367	0.0100 CAL
GAMMACHLOR	6.737	16060587	0.0100 CAL
ALPHACHLOR	6.977	15845186	0.0100 CAL
ENDOI	7.091	15003548	0.0100 CAL
44DDE	7.252	14559678	0.0100 CAL
DIELDRIN	7.564	15708832	0.0100 CAL
ENDRIN	8.060	8316473	0.0100 CAL
44DDD	8.201	11608721	0.0100 CAL
ENDOII	8.371	13307254	0.0100 CAL
44DDT	8.651	9275650	0.0100 CAL
ENDRINALDEH	8.837	9725997	0.0100 CAL
ENDOSULFATE	9.188	12054012	0.0100 CAL
METHOXYCL	9.545	3789216	0.0100 CAL
ENDRINKETONE	9.858	14349369	0.0100 CAL
SURRDCBPEST	11.417	6728146	25.0000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\016.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 4 PP6027
Acquired: 11/14/2019 20:05:34
Printed: 11/18/2019 08:41:59

Data Summary: {Data Description}



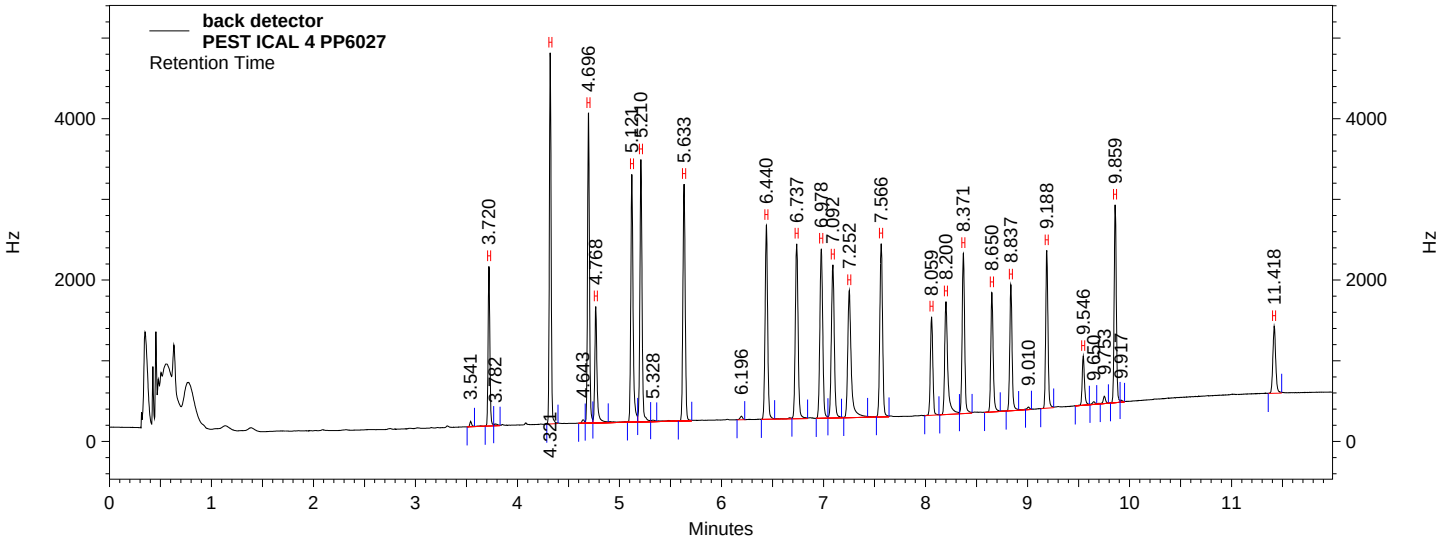
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.188	26036946	50.0000 CAL
ALPHABHC	3.647	59161523	0.0200 CAL
LINDANE	3.913	50744278	0.0200 CAL
BETABHC	3.983	24453523	0.0200 CAL
DELTABHC	4.143	50424586	0.0200 CAL
HEPTACHLOR	4.343	54472691	0.0200 CAL
ALDRIN	4.629	48661708	0.0200 CAL
HEPTAEPOX	5.251	44529341	0.0200 CAL
GAMMACHLOR	5.399	46251405	0.0200 CAL
ALPHACHLOR	5.553	45648713	0.0200 CAL
44DDE	5.652	33288201	0.0200 CAL
ENDOI	5.720	48970317	0.0200 CAL
DIELDRIN	6.023	45433067	0.0200 CAL
ENDRIN	6.341	21441469	0.0200 CAL
44DDD	6.453	30046803	0.0200 CAL
ENDOII	6.670	37654335	0.0200 CAL
44DDT	6.883	27946161	0.0200 CAL
ENDRINALDEH	7.332	28596762	0.0200 CAL
METHOXYCL	7.710	12067206	0.0200 CAL
ENDOSULFATE	8.002	35167346	0.0200 CAL
ENDRINKETONE	8.392	42964534	0.0200 CAL
SURRDCBPEST	9.704	19269071	50.0000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\016.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 4 PP6027
Acquired: 11/14/2019 20:05:34
Printed: 11/18/2019 08:41:59

Data Summary: {Data Description}



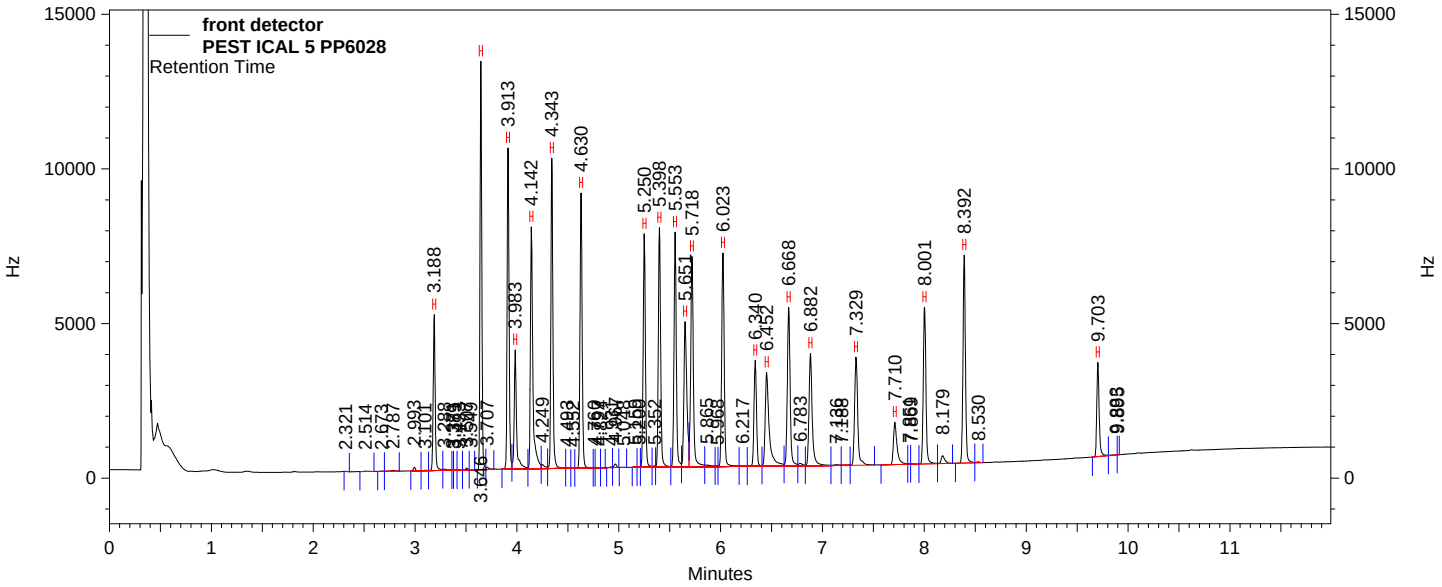
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.720	18785541	50.0000 CAL
ALPHABHC	4.321	42740516	0.0200 CAL
LINDANE	4.696	38347793	0.0200 CAL
BETABHC	4.768	16874791	0.0200 CAL
DELTABHC	5.121	36556683	0.0200 CAL
HEPTACHLOR	5.210	36893275	0.0200 CAL
ALDRIN	5.633	34933989	0.0200 CAL
HEPTAEPOX	6.440	32089357	0.0200 CAL
GAMMACHLOR	6.737	31596683	0.0200 CAL
ALPHACHLOR	6.978	31010445	0.0200 CAL
ENDOI	7.092	29292621	0.0200 CAL
44DDE	7.252	28963505	0.0200 CAL
DIELDRIN	7.566	30857050	0.0200 CAL
ENDRIN	8.059	15670665	0.0200 CAL
44DDD	8.200	22617183	0.0200 CAL
ENDOII	8.371	25795080	0.0200 CAL
44DDT	8.650	18626054	0.0200 CAL
ENDRINALDEH	8.837	19052170	0.0200 CAL
ENDOSULFATE	9.188	23029663	0.0200 CAL
METHOXYCL	9.546	7383785	0.0200 CAL
ENDRINKETONE	9.859	27583714	0.0200 CAL
SURRDCBPEST	11.418	12355772	50.0000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\017.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 5 PP6028
Acquired: 11/14/2019 20:21:47
Printed: 11/18/2019 08:42:01

Data Summary: {Data Description}



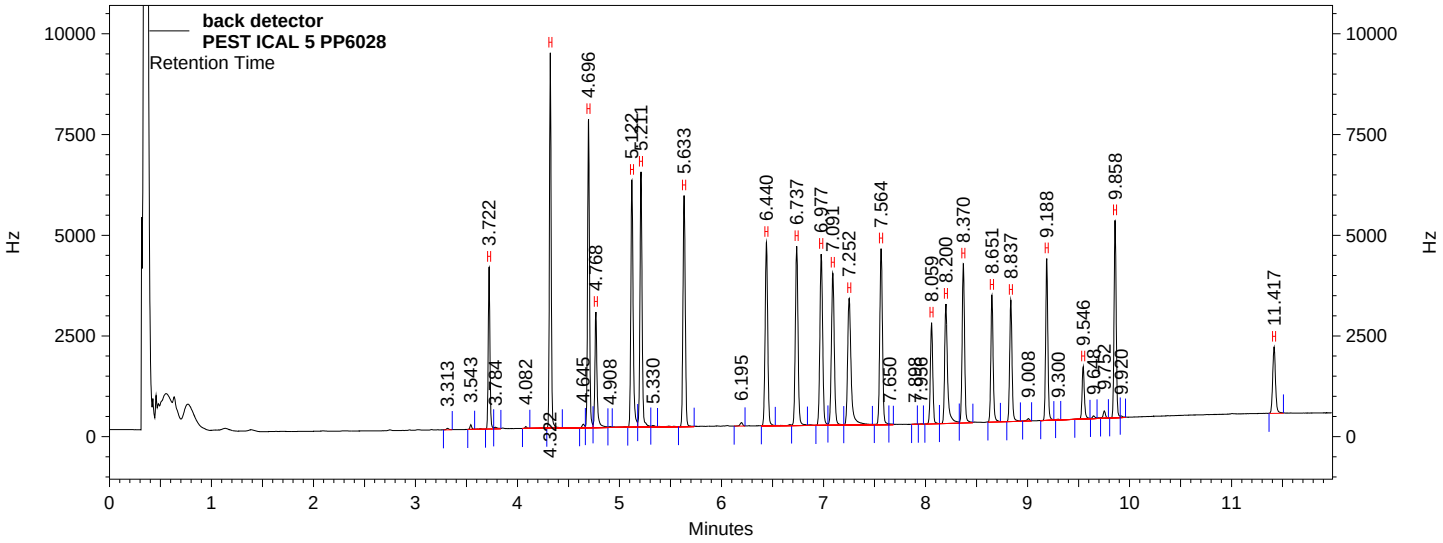
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.188	51782023	100.0000 CAL
ALPHABHC	3.646	120217082	0.0400 CAL
LINDANE	3.913	103551590	0.0400 CAL
BETABHC	3.983	47878702	0.0400 CAL
DELTABHC	4.142	101194592	0.0400 CAL
HEPTACHLOR	4.343	106838406	0.0400 CAL
ALDRIN	4.630	98188721	0.0400 CAL
HEPTAEPOX	5.250	88057255	0.0400 CAL
GAMMACHLOR	5.398	92534535	0.0400 CAL
ALPHACHLOR	5.553	91036280	0.0400 CAL
44DDE	5.651	72024137	0.0400 CAL
ENDOI	5.718	94584803	0.0400 CAL
DIELDRIN	6.023	91425506	0.0400 CAL
ENDRIN	6.340	44758643	0.0400 CAL
44DDD	6.452	63574727	0.0400 CAL
ENDOII	6.668	75696805	0.0400 CAL
44DDT	6.882	61196972	0.0400 CAL
ENDRINALDEH	7.329	57404432	0.0400 CAL
METHOXYCL	7.710	26212249	0.0400 CAL
ENDOSULFATE	8.001	70699236	0.0400 CAL
ENDRINKETONE	8.392	85639798	0.0400 CAL
SURRDCBPEST	9.703	37799730	100.0000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\017.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 5 PP6028
Acquired: 11/14/2019 20:21:47
Printed: 11/18/2019 08:42:01

Data Summary: {Data Description}



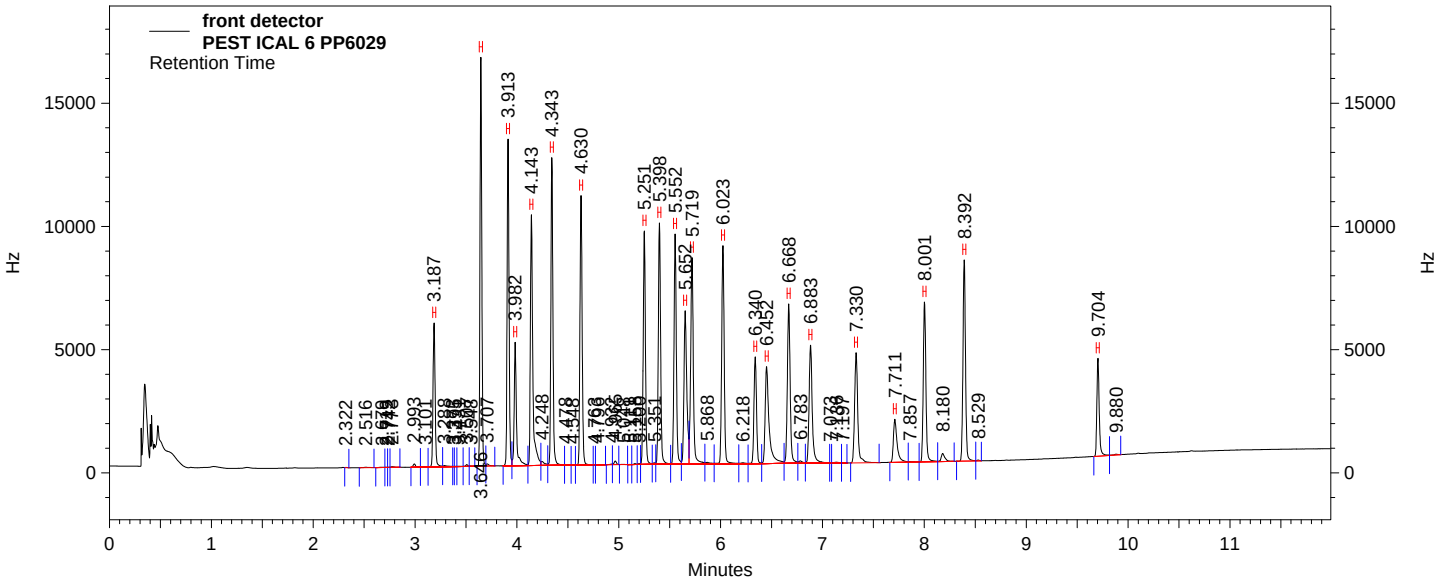
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.722	36570880	100.0000 CAL
ALPHABHC	4.322	85335764	0.0400 CAL
LINDANE	4.696	75685982	0.0400 CAL
BETABHC	4.768	32552966	0.0400 CAL
DELTABHC	5.122	73656276	0.0400 CAL
HEPTACHLOR	5.211	71378459	0.0400 CAL
ALDRIN	5.633	68611387	0.0400 CAL
HEPTAEPOX	6.440	62255508	0.0400 CAL
GAMMACHLOR	6.737	62239223	0.0400 CAL
ALPHACHLOR	6.977	60707865	0.0400 CAL
ENDOI	7.091	57128366	0.0400 CAL
44DDE	7.252	58025811	0.0400 CAL
DIELDRIN	7.564	60978947	0.0400 CAL
ENDRIN	8.059	31438122	0.0400 CAL
44DDD	8.200	45103791	0.0400 CAL
ENDOII	8.370	50583830	0.0400 CAL
44DDT	8.651	38218120	0.0400 CAL
ENDRINALDEH	8.837	37543935	0.0400 CAL
ENDOSULFATE	9.188	45610914	0.0400 CAL
METHOXYCL	9.546	15609713	0.0400 CAL
ENDRINKETONE	9.858	54432004	0.0400 CAL
SURRDCBPEST	11.417	24399140	100.0000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\018.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 6 PP6029
Acquired: 11/14/2019 20:38:07
Printed: 11/18/2019 08:42:04

Data Summary: {Data Description}



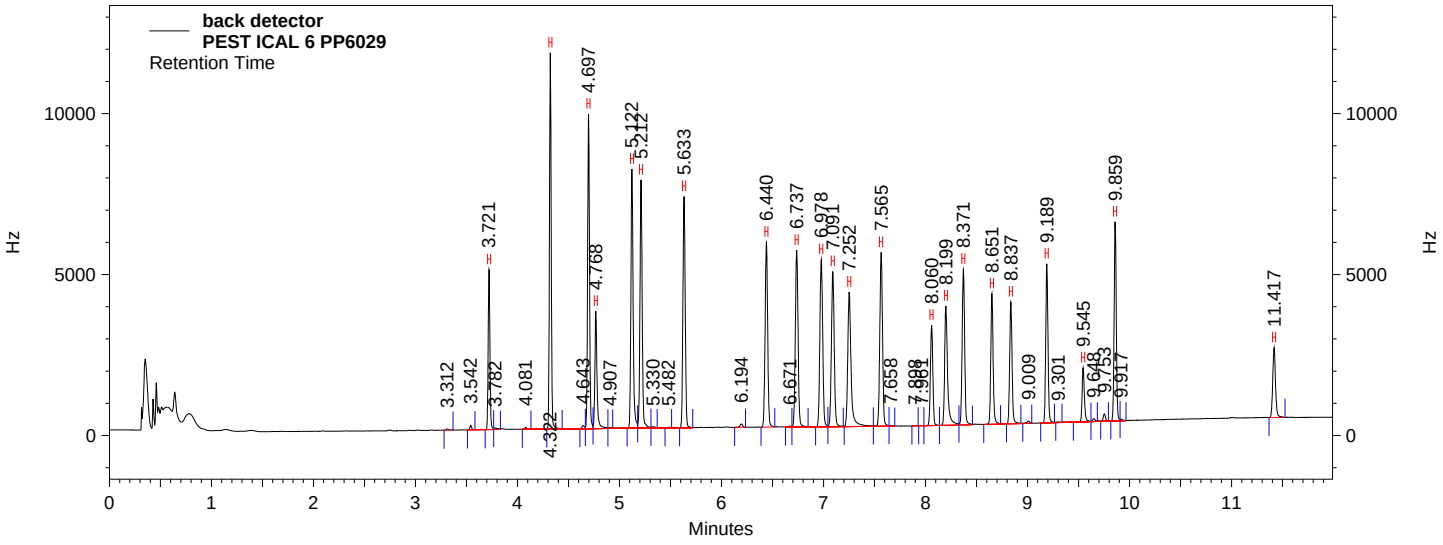
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.187	65678471	125.0000 CAL
ALPHABHC	3.646	153664507	0.0500 CAL
LINDANE	3.913	131548686	0.0500 CAL
BETABHC	3.982	60081877	0.0500 CAL
DELTABHC	4.143	129549578	0.0500 CAL
HEPTACHLOR	4.343	134683706	0.0500 CAL
ALDRIN	4.630	123781067	0.0500 CAL
HEPTAEPOX	5.251	109910958	0.0500 CAL
GAMMACHLOR	5.398	115903982	0.0500 CAL
ALPHACHLOR	5.552	113628953	0.0500 CAL
44DDE	5.652	92163077	0.0500 CAL
ENDOI	5.719	117518896	0.0500 CAL
DIELDRIN	6.023	115378522	0.0500 CAL
ENDRIN	6.340	57068212	0.0500 CAL
44DDD	6.452	81317120	0.0500 CAL
ENDOII	6.668	95173667	0.0500 CAL
44DDT	6.883	80073710	0.0500 CAL
ENDRINALDEH	7.330	73186495	0.0500 CAL
METHOXYCL	7.711	34087676	0.0500 CAL
ENDOSULFATE	8.001	89149848	0.0500 CAL
ENDRINKETONE	8.392	108271910	0.0500 CAL
SURRDCBPEST	9.704	48791538	125.0000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\018.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 6 PP6029
Acquired: 11/14/2019 20:38:07
Printed: 11/18/2019 08:42:04

Data Summary: {Data Description}



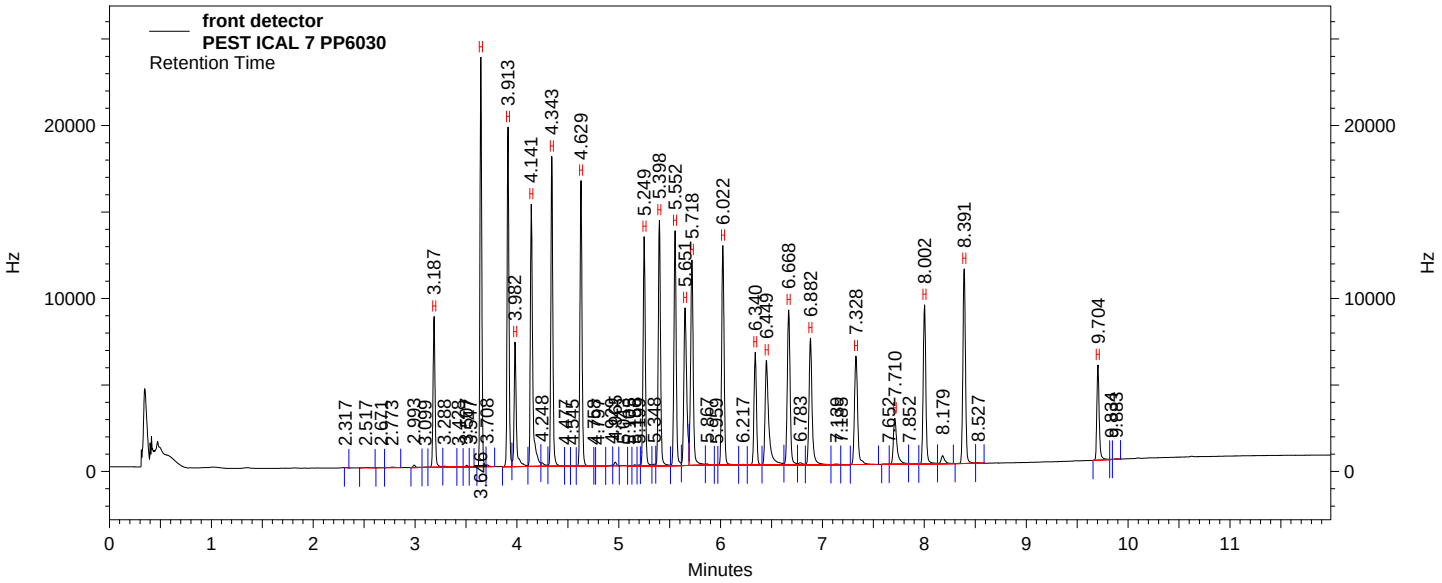
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.721	46239756	125.0000 CAL
ALPHABHC	4.322	108068310	0.0500 CAL
LINDANE	4.697	95895556	0.0500 CAL
BETABHC	4.768	40752437	0.0500 CAL
DELTABHC	5.122	93256419	0.0500 CAL
HEPTACHLOR	5.212	89704678	0.0500 CAL
ALDRIN	5.633	85765107	0.0500 CAL
HEPTAEPOX	6.440	77637051	0.0500 CAL
GAMMACHLOR	6.737	78212100	0.0500 CAL
ALPHACHLOR	6.978	76359911	0.0500 CAL
ENDOI	7.091	71351639	0.0500 CAL
44DDE	7.252	73002786	0.0500 CAL
DIELDRIN	7.565	76470933	0.0500 CAL
ENDRIN	8.060	39952286	0.0500 CAL
44DDD	8.199	56891613	0.0500 CAL
ENDOII	8.371	63474117	0.0500 CAL
44DDT	8.651	49686550	0.0500 CAL
ENDRINALDEH	8.837	47555605	0.0500 CAL
ENDOSULFATE	9.189	57527606	0.0500 CAL
METHOXYCL	9.545	20351495	0.0500 CAL
ENDRINKETONE	9.859	68673695	0.0500 CAL
SURRDCBPEST	11.417	31606113	125.0000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\019.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 7 PP6030
Acquired: 11/14/2019 20:54:23
Printed: 11/18/2019 08:42:06

Data Summary: {Data Description}



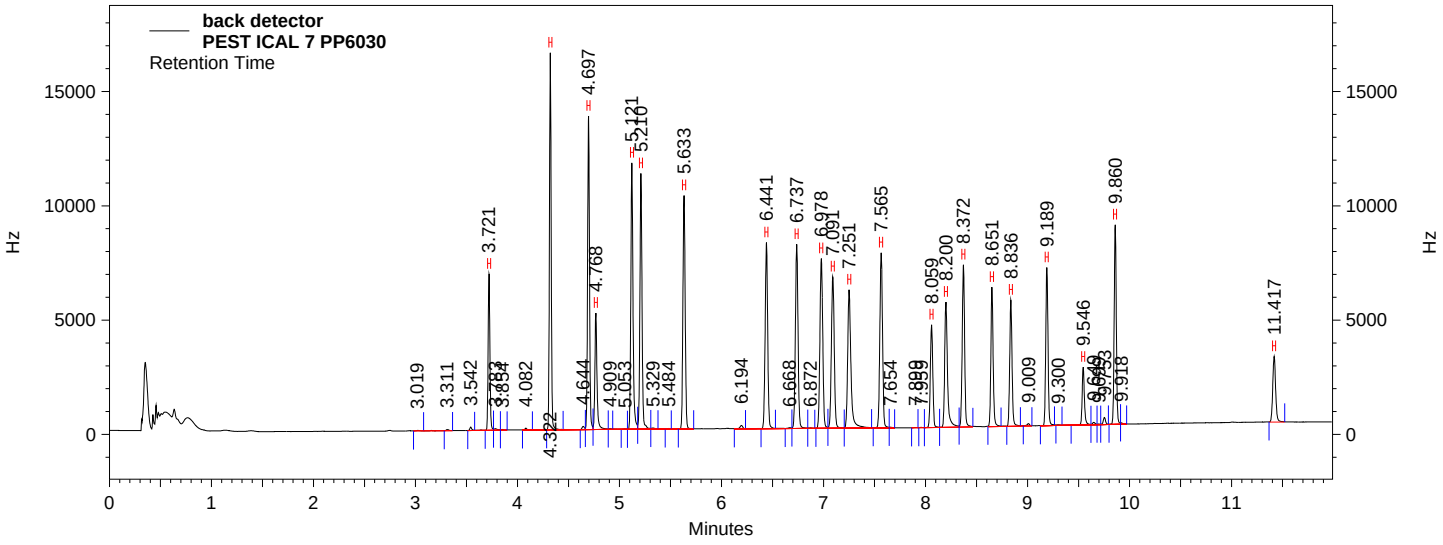
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.187	92529557	175.0000 CAL
ALPHABHC	3.646	218305865	0.0700 CAL
LINDANE	3.913	186531454	0.0700 CAL
BETABHC	3.982	84005636	0.0700 CAL
DELTABHC	4.141	186973227	0.0700 CAL
HEPTACHLOR	4.343	187616237	0.0700 CAL
ALDRIN	4.629	175210320	0.0700 CAL
HEPTAEPOX	5.249	154165977	0.0700 CAL
GAMMACHLOR	5.398	164599447	0.0700 CAL
ALPHACHLOR	5.552	161390608	0.0700 CAL
44DDE	5.651	136503762	0.0700 CAL
ENDOI	5.718	162775035	0.0700 CAL
DIELDRIN	6.022	162342514	0.0700 CAL
ENDRIN	6.340	83716401	0.0700 CAL
44DDD	6.449	117930439	0.0700 CAL
ENDOII	6.668	134207629	0.0700 CAL
44DDT	6.882	117878984	0.0700 CAL
ENDRINALDEH	7.328	104817195	0.0700 CAL
METHOXYCL	7.710	49919067	0.0700 CAL
ENDOSULFATE	8.002	126739960	0.0700 CAL
ENDRINKETONE	8.391	152595703	0.0700 CAL
SURRDCBPEST	9.704	67668432	175.0000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\019.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICAL 7 PP6030
Acquired: 11/14/2019 20:54:23
Printed: 11/18/2019 08:42:06

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.721	64630027	175.0000 CAL
ALPHABHC	4.322	151788296	0.0700 CAL
LINDANE	4.697	134746874	0.0700 CAL
BETABHC	4.768	56779154	0.0700 CAL
DELTABHC	5.121	132587867	0.0700 CAL
HEPTACHLOR	5.210	124506938	0.0700 CAL
ALDRIN	5.633	120365325	0.0700 CAL
HEPTAEPOX	6.441	108420680	0.0700 CAL
GAMMACHLOR	6.737	110793886	0.0700 CAL
ALPHACHLOR	6.978	108033429	0.0700 CAL
ENDOI	7.091	100328700	0.0700 CAL
44DDE	7.251	103700653	0.0700 CAL
DIELDRIN	7.565	107969653	0.0700 CAL
ENDRIN	8.059	57860763	0.0700 CAL
44DDD	8.200	81107302	0.0700 CAL
ENDOII	8.372	89325060	0.0700 CAL
44DDT	8.651	72253787	0.0700 CAL
ENDRINALDEH	8.836	67760585	0.0700 CAL
ENDOSULFATE	9.189	81599626	0.0700 CAL
METHOXYCL	9.546	29599590	0.0700 CAL
ENDRINKETONE	9.860	97010558	0.0700 CAL
SURRDCBPEST	11.417	43679520	175.0000 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\111419pstic.seq
User : JJY
Printed : 11/18/2019 08:42:11

File	Sample ID	Acquired
C:\Instarch\Semi1\data\111419pstic\020.dat	PEST ICV 1 PP6031	11/18/2019 08:42:11

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	50.000	49.322	1.357	20.000	Passed
ALPHABHC	0.020	0.020	0.688	20.000	Passed
LINDANE	0.020	0.019	2.700	20.000	Passed
BETABHC	0.020	0.020	0.969	20.000	Passed
DELTABHC	0.020	0.020	2.126	20.000	Passed
HEPTACHLOR	0.020	0.020	0.748	20.000	Passed
ALDRIN	0.020	0.020	1.359	20.000	Passed
HEPTAEPOX	0.020	0.020	1.686	20.000	Passed
GAMMACHLOR	0.020	0.020	1.556	20.000	Passed
ALPHACHLOR	0.020	0.020	2.217	20.000	Passed
44DDE	0.020	0.019	4.421	20.000	Passed
ENDOI	0.020	0.020	0.170	20.000	Passed
DIELDRIN	0.020	0.020	2.367	20.000	Passed
ENDRIN	0.020	0.019	3.800	20.000	Passed
44DDD	0.020	0.019	3.501	20.000	Passed
ENDOII	0.020	0.020	1.454	20.000	Passed
44DDT	0.020	0.020	0.128	20.000	Passed
ENDRINALDEH	0.020	0.020	2.106	20.000	Passed
METHOXYCL	0.020	0.020	0.214	20.000	Passed
ENDOSULFATE	0.020	0.021	3.343	20.000	Passed
ENDRINKETONE	0.020	0.020	2.118	20.000	Passed
SURRDCBPEST	50.000	52.073	4.146	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	50.000	49.303	1.395	20.000	Passed
ALPHABHC	0.020	0.020	0.852	20.000	Passed
LINDANE	0.020	0.020	1.670	20.000	Passed
BETABHC	0.020	0.020	2.343	20.000	Passed
DELTABHC	0.020	0.020	0.071	20.000	Passed
HEPTACHLOR	0.020	0.020	0.703	20.000	Passed
ALDRIN	0.020	0.020	1.730	20.000	Passed
HEPTAEPOX	0.020	0.020	1.906	20.000	Passed
GAMMACHLOR	0.020	0.020	1.174	20.000	Passed
ALPHACHLOR	0.020	0.020	2.146	20.000	Passed
ENDOI	0.020	0.020	0.977	20.000	Passed
44DDE	0.020	0.020	1.531	20.000	Passed
DIELDRIN	0.020	0.020	0.266	20.000	Passed
ENDRIN	0.020	0.020	2.165	20.000	Passed
44DDD	0.020	0.020	0.837	20.000	Passed
ENDOII	0.020	0.020	0.767	20.000	Passed
44DDT	0.020	0.020	0.813	20.000	Passed
ENDRINALDEH	0.020	0.021	3.383	20.000	Passed
ENDOSULFATE	0.020	0.021	4.834	20.000	Passed

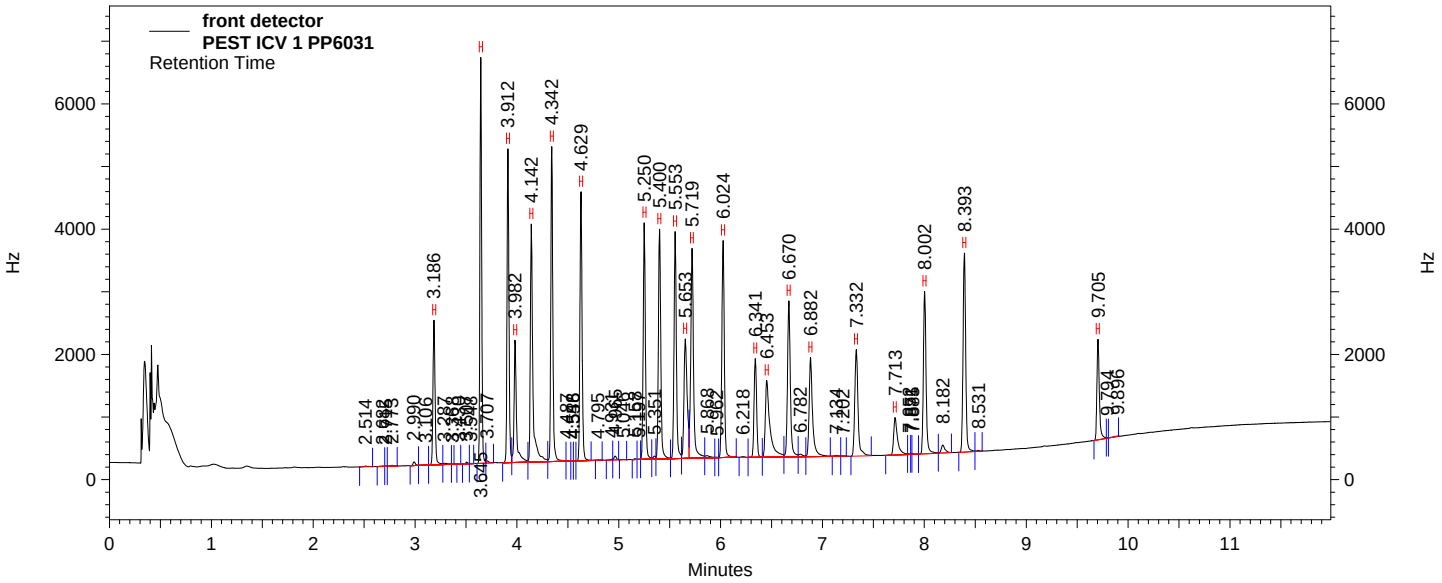
Sequence : C:\Instarch\Semi1\Sequence\111419pstic.seq
User : JJY
Printed : 11/18/2019 08:42:11

METHOXYCL	0.020	0.020	0.813	20.000	**Passed**
ENDRINKETONE	0.020	0.021	2.709	20.000	**Passed**
SURRDCBPEST	50.000	52.908	5.816	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\020.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICV 1 PP6031
Acquired: 11/14/2019 21:10:40
Printed: 11/18/2019 08:42:09

Data Summary: {Data Description}



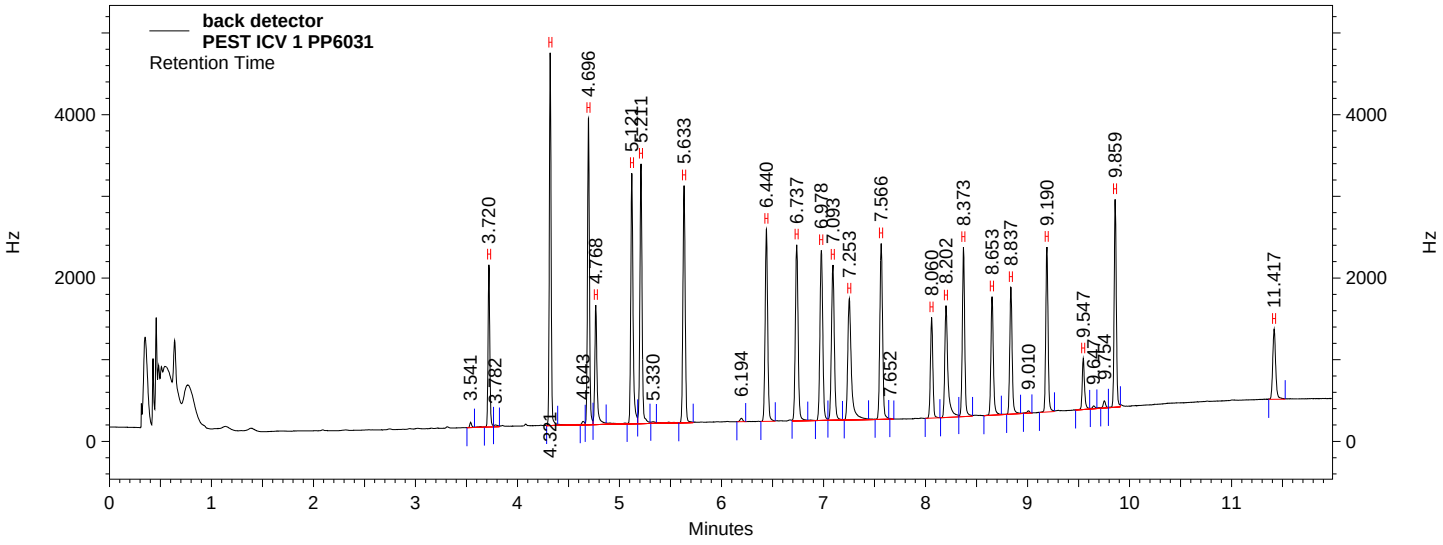
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.186	25647066	49.3216
ALPHABHC	3.645	58348009	0.0199
LINDANE	3.912	49210910	0.0195
BETABHC	3.982	24834674	0.0202
DELTABHC	4.142	50386334	0.0204
HEPTACHLOR	4.342	53839339	0.0199
ALDRIN	4.629	47834273	0.0197
HEPTAEPOX	5.250	43507324	0.0197
GAMMACHLOR	5.400	45419109	0.0197
ALPHACHLOR	5.553	44511960	0.0196
44DDE	5.653	31797568	0.0191
ENDOI	5.719	48758956	0.0200
DIELDRIN	6.024	44305955	0.0195
ENDRIN	6.341	20958746	0.0192
44DDD	6.453	29421655	0.0193
ENDOII	6.670	37365389	0.0197
44DDT	6.882	28446255	0.0200
ENDRINALDEH	7.332	29104244	0.0204
METHOXYCL	7.713	12337222	0.0200
ENDOSULFATE	8.002	36615413	0.0207
ENDRINKETONE	8.393	44048605	0.0204
SURRDCBPEST	9.705	20368681	52.0732

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\020.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICV 1 PP6031
Acquired: 11/14/2019 21:10:40
Printed: 11/18/2019 08:42:09

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.720	18506761	49.3027
ALPHABHC	4.321	42406066	0.0198
LINDANE	4.696	37589607	0.0197
BETABHC	4.768	17234686	0.0205
DELTABHC	5.121	36548314	0.0200
HEPTACHLOR	5.211	36515213	0.0199
ALDRIN	5.633	34309764	0.0197
HEPTAEPOX	6.440	31418001	0.0196
GAMMACHLOR	6.737	31109987	0.0198
ALPHACHLOR	6.978	30234588	0.0196
ENDOI	7.093	28904346	0.0198
44DDE	7.253	28461618	0.0197
DIELDRIN	7.566	30724998	0.0199
ENDRIN	8.060	15513883	0.0196
44DDD	8.202	22465051	0.0198
ENDOII	8.373	25622748	0.0198
44DDT	8.653	18789574	0.0202
ENDRINALDEH	8.837	19603736	0.0207
ENDOSULFATE	9.190	24303260	0.0210
METHOXYCL	9.547	7563566	0.0202
ENDRINKETONE	9.859	28424452	0.0205
SURRDCBPEST	11.417	13316508	52.9080

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\111419pstic.seq
User : JJY
Printed : 11/18/2019 08:42:16

File	Sample ID	Acquired
C:\Instarch\Semi1\data\111419pstic\021.dat	PEST ICV 2 PP6032	11/18/2019 08:42:15

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	103.699	3.699	20.000	Passed
ALPHABHC	0.040	0.042	4.169	20.000	Passed
LINDANE	0.040	0.041	1.638	20.000	Passed
BETABHC	0.040	0.042	5.120	20.000	Passed
DELTABHC	0.040	0.042	5.017	20.000	Passed
HEPTACHLOR	0.040	0.042	3.784	20.000	Passed
ALDRIN	0.040	0.042	4.289	20.000	Passed
HEPTAEPOX	0.040	0.041	3.247	20.000	Passed
GAMMACHLOR	0.040	0.042	4.446	20.000	Passed
ALPHACHLOR	0.040	0.041	3.269	20.000	Passed
44DDE	0.040	0.042	4.258	20.000	Passed
ENDOI	0.040	0.042	4.856	20.000	Passed
DIELDRIN	0.040	0.042	5.314	20.000	Passed
ENDRIN	0.040	0.042	5.304	20.000	Passed
44DDD	0.040	0.042	4.147	20.000	Passed
ENDOII	0.040	0.042	3.794	20.000	Passed
44DDT	0.040	0.042	6.051	20.000	Passed
ENDRINALDEH	0.040	0.042	5.846	20.000	Passed
METHOXYCL	0.040	0.042	5.577	20.000	Passed
ENDOSULFATE	0.040	0.043	7.386	20.000	Passed
ENDRINKETONE	0.040	0.042	5.993	20.000	Passed
SURRDCBPEST	100.000	106.890	6.890	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	102.892	2.892	20.000	Passed
ALPHABHC	0.040	0.041	3.501	20.000	Passed
LINDANE	0.040	0.041	2.417	20.000	Passed
BETABHC	0.040	0.042	5.678	20.000	Passed
DELTABHC	0.040	0.042	4.722	20.000	Passed
HEPTACHLOR	0.040	0.041	3.564	20.000	Passed
ALDRIN	0.040	0.041	3.236	20.000	Passed
HEPTAEPOX	0.040	0.041	3.000	20.000	Passed
GAMMACHLOR	0.040	0.042	4.035	20.000	Passed
ALPHACHLOR	0.040	0.041	2.869	20.000	Passed
ENDOI	0.040	0.042	3.846	20.000	Passed
44DDE	0.040	0.042	3.969	20.000	Passed
DIELDRIN	0.040	0.042	5.008	20.000	Passed
ENDRIN	0.040	0.042	4.275	20.000	Passed
44DDD	0.040	0.041	3.624	20.000	Passed
ENDOII	0.040	0.041	2.894	20.000	Passed
44DDT	0.040	0.042	4.946	20.000	Passed
ENDRINALDEH	0.040	0.042	5.746	20.000	Passed
ENDOSULFATE	0.040	0.043	6.660	20.000	Passed

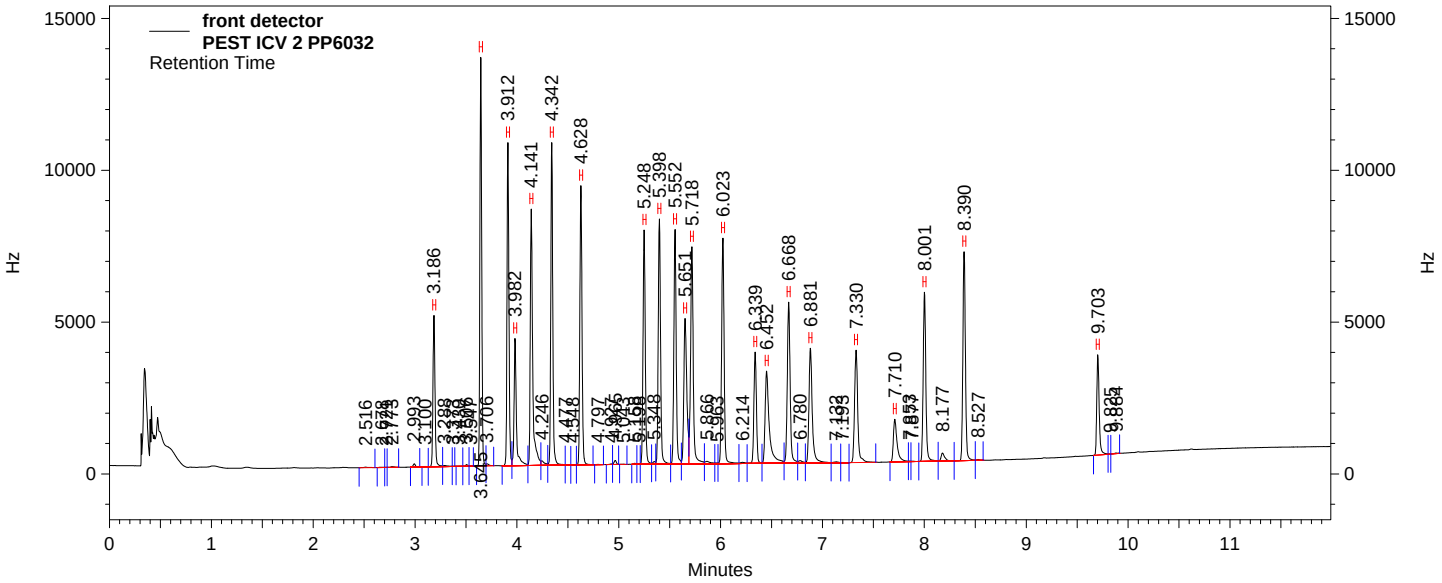
Sequence : C:\Instarch\Semi1\Sequence\111419pstic.seq
User : JJY
Printed : 11/18/2019 08:42:16

METHOXYCL	0.040	0.043	6.290	20.000	**Passed**
ENDRINKETONE	0.040	0.042	4.943	20.000	**Passed**
SURRDCBPEST	100.000	106.264	6.264	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\021.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICV 2 PP6032
Acquired: 11/14/2019 21:26:56
Printed: 11/18/2019 08:42:13

Data Summary: {Data Description}



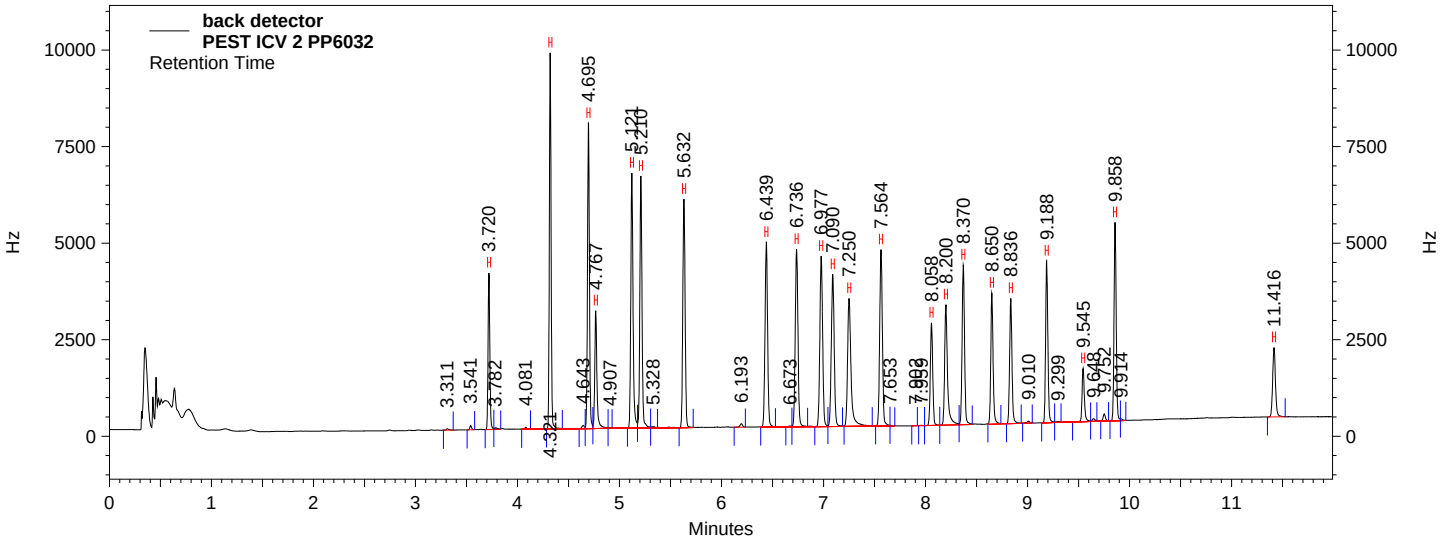
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.186	54185773	103.6995
ALPHABHC	3.645	125918938	0.0417
LINDANE	3.912	105245082	0.0407
BETABHC	3.982	50953990	0.0420
DELTABHC	4.141	107302500	0.0420
HEPTACHLOR	4.342	111765607	0.0415
ALDRIN	4.628	102533853	0.0417
HEPTAEPOX	5.248	90993732	0.0413
GAMMACHLOR	5.398	96910506	0.0418
ALPHACHLOR	5.552	94207959	0.0413
44DDE	5.651	74779469	0.0417
ENDOI	5.718	99829682	0.0419
DIELDRIN	6.023	96448213	0.0421
ENDRIN	6.339	47600530	0.0421
44DDD	6.452	66423732	0.0417
ENDOII	6.668	78886598	0.0415
44DDT	6.881	65481455	0.0424
ENDRINALDEH	7.330	61522219	0.0423
METHOXYCL	7.710	27944799	0.0422
ENDOSULFATE	8.001	76595066	0.0430
ENDRINKETONE	8.390	91647051	0.0424
SURRDCBPEST	9.703	41424181	106.8904

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\021.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
User: JJY
Sample ID: PEST ICV 2 PP6032
Acquired: 11/14/2019 21:26:56
Printed: 11/18/2019 08:42:13

Data Summary: {Data Description}



back detector Results

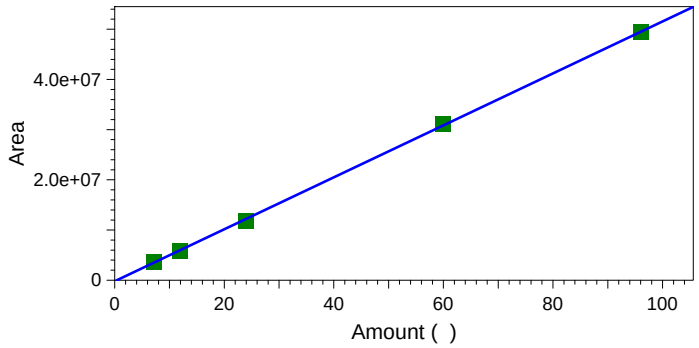
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.720	38191986	102.8923
ALPHABHC	4.321	88959808	0.0414
LINDANE	4.695	78310225	0.0410
BETABHC	4.767	34786715	0.0423
DELTABHC	5.121	77602824	0.0419
HEPTACHLOR	5.210	74770016	0.0414
ALDRIN	5.632	71246977	0.0413
HEPTAEPOX	6.439	64721569	0.0412
GAMMACHLOR	6.736	65376197	0.0416
ALPHACHLOR	6.977	63212396	0.0411
ENDOI	7.090	59856709	0.0415
44DDE	7.250	60627111	0.0416
DIELDRIN	7.564	64499177	0.0420
ENDRIN	8.058	33425521	0.0417
44DDD	8.200	47220239	0.0414
ENDOII	8.370	52641192	0.0412
44DDT	8.650	40892882	0.0420
ENDRINALDEH	8.836	40271640	0.0423
ENDOSULFATE	9.188	49318128	0.0427
METHOXYCL	9.545	16849597	0.0425
ENDRINKETONE	9.858	57838647	0.0420
SURRDCBPEST	11.416	26518648	106.2641

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:36
User: JJY
Instrument: Semi 1 (Offline)

SURRTCMXPEST (front detector)
Average RF: 506027. RF StDev: 11961.6 RF %RSD: 2.36383
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 517266.x - 195840.
Goodness of fit (r^2): 0.999863

Peak: SURRTCMXPEST -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	7.2	12	24	60	96
Area	3664972	5904550	11878633	31075268	49555445
RF	509023.888888889	492045.833333333	494943.041666667	517921.133333333	516202.5520833333
Last Area Residual	-0.263883	0.206472	0.657126	-0.454608	-0.181256
Rep StDev					
Rep %RSD					
Rep 1 Area	3664972	5904550	11878633	31075268	49555445
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	144
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:36
User: JJY
Instrument: Semi 1 (Offline)

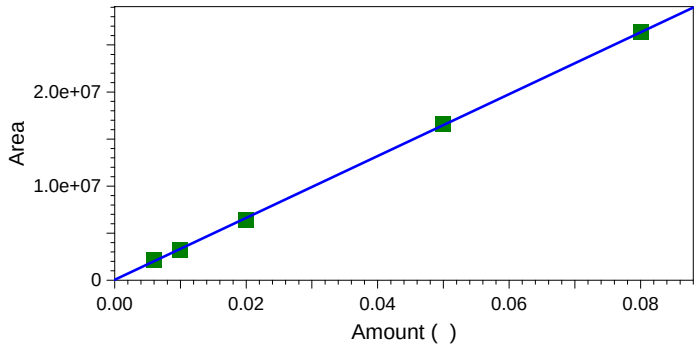
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:39
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #1 (front detector)
Average RF: 3.32054e+008 RF StDev: 1.24845e+007 RF %RSD: 3.75979
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.28820e+008x + 41823.7
Goodness of fit (r^2): 0.999822

Peak: Chlordane #1 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	2117570	3238813	6423536	16591500	26436295
RF	352928333.333333	323881300	321176800	331830000	330453687.5
Last Area Residual	-0.000312713	0.000277388	0.000592081	-0.000330502	-0.00027027
Rep StDev					
Rep %RSD					
Rep 1 Area	2117570	3238813	6423536	16591500	26436295
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:39
User: JJY
Instrument: Semi 1 (Offline)

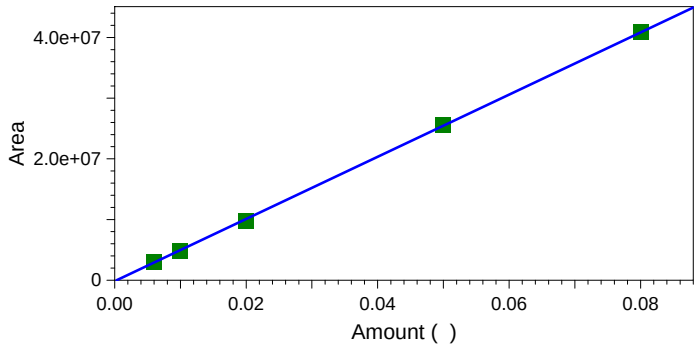
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:41
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #2 (front detector)
Average RF: 5.02052e+008 RF StDev: 1.32068e+007 RF %RSD: 2.63057
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 5.12390e+008x - 151602.
Goodness of fit (r^2): 0.999815

Peak: Chlordane #2 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	3059196	4872890	9759729	25635193	40993137
RF	509866000	487289000	487986450	512703860	512414212.5
Last Area					
Residual	-0.000266315	0.000194012	0.000656673	-0.000326479	-0.00029962
Rep StDev					
Rep %RSD					
Rep 1 Area	3059196	4872890	9759729	25635193	40993137
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	
RF	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:41
User: JJY
Instrument: Semi 1 (Offline)

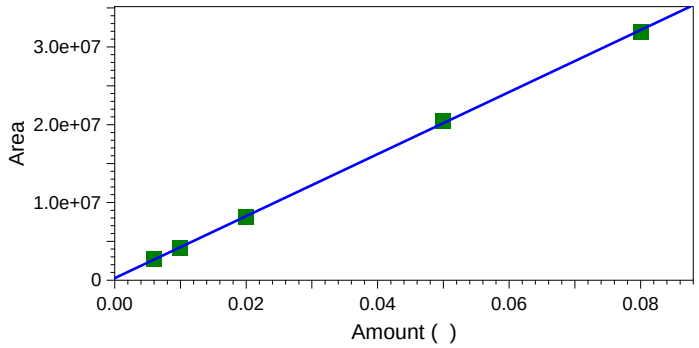
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:42
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #3 (front detector)
Average RF: 4.17120e+008 RF StDev: 1.88021e+007 RF %RSD: 4.50761
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.98893e+008x + 259628.
Goodness of fit (r^2): 0.999803

Peak: Chlordane #3 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	2690292	4193709	8166462	20485065	31985630
RF	448382000	419370900	408323100	409701300	399820375
Last Area Residual	-9.35242e-005	0.000137503	0.000178059	-0.000703912	0.000464887
Rep StDev					
Rep %RSD					
Rep 1 Area	2690292	4193709	8166462	20485065	31985630
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

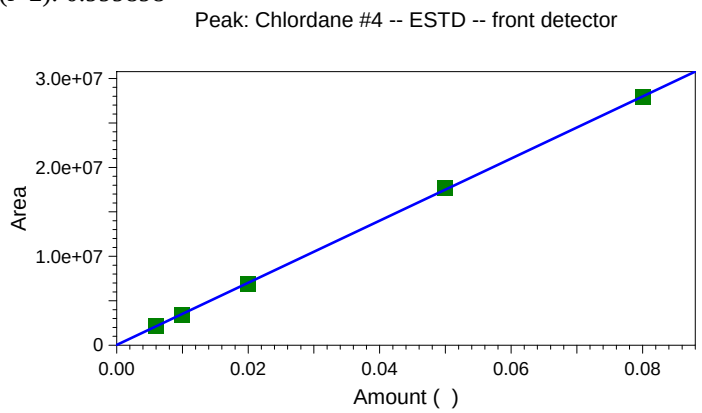
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:42
User: JJY
Instrument: Semi 1 (Offline)

RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:44
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #4 (front detector)
Average RF: 3.51445e+008 RF StDev: 9.92073e+006 RF %RSD: 2.82284
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.49389e+008x + 26597.3
Goodness of fit (r^2): 0.999898



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	2205676	3421424	6900731	17636452	27976242
RF	367612666.666667	342142400	345036550	352729040	349703025
Last Area					
Residual	-0.000236827	0.000283533	0.000325272	-0.000401855	4.22637e-006
Rep StDev					
Rep %RSD					
Rep 1 Area	2205676	3421424	6900731	17636452	27976242
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:44
User: JJY
Instrument: Semi 1 (Offline)

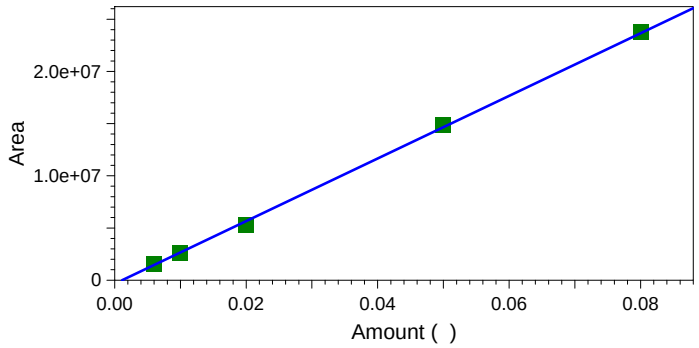
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:45
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #5 (front detector)
Average RF: 2.76529e+008 RF StDev: 1.90731e+007 RF %RSD: 6.89732
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.99788e+008x - 335353.
Goodness of fit (r^2): 0.999365

Peak: Chlordane #5 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1586246	2595590	5281701	14839503	23827003
RF	264374333.333333	259559000	264085050	296790060	297837537.5
Last Area Residual	-0.000409867	0.000223269	0.00126322	-0.00061869	-0.000598249
Rep StDev					
Rep %RSD					
Rep 1 Area	1586246	2595590	5281701	14839503	23827003
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

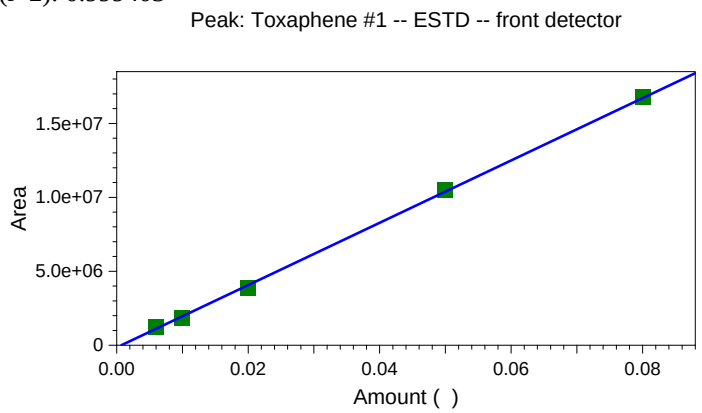
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:45
User: JJY
Instrument: Semi 1 (Offline)

RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:47
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #1 (front detector)
Average RF: 2.00681e+008 RF StDev: 1.16873e+007 RF %RSD: 5.82381
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.10671e+008x - 149344.
Goodness of fit (r^2): 0.999403



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1237174	1845651	3842743	10512348	16820686
RF	206195666.666667	184565100	192137150	210246960	210258575
Last Area Residual	-0.00058145	0.000530264	0.00105057	-0.000608357	-0.000552443
Rep StDev					
Rep %RSD					
Rep 1 Area	1237174	1845651	3842743	10512348	16820686
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

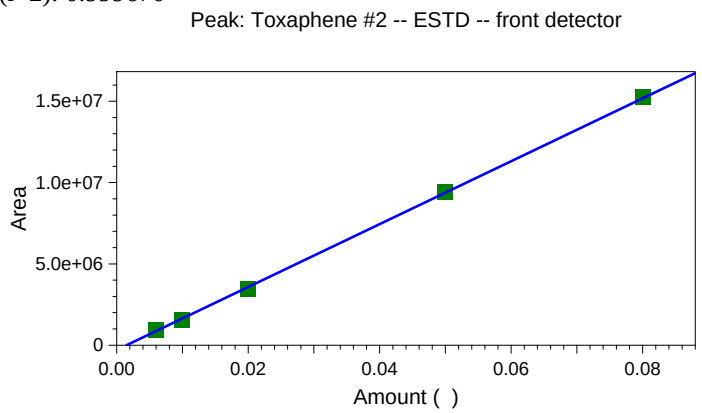
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:47
User: JJY
Instrument: Semi 1 (Offline)

RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:48
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #2 (front detector)
Average RF: 1.73255e+008 RF StDev: 1.62666e+007 RF %RSD: 9.38881
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.93301e+008x - 286769.
Goodness of fit (r^2): 0.999670



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	948680	1567793	3433137	9427123	15294674
RF	158113333.333333	156779300	171656850	188542460	191183425
Last Area Residual	-0.000391331	0.00040582	0.000755862	-0.00025274	-0.000607259
Rep StDev					
Rep %RSD					
Rep 1 Area	948680	1567793	3433137	9427123	15294674
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:48
User: JJY
Instrument: Semi 1 (Offline)

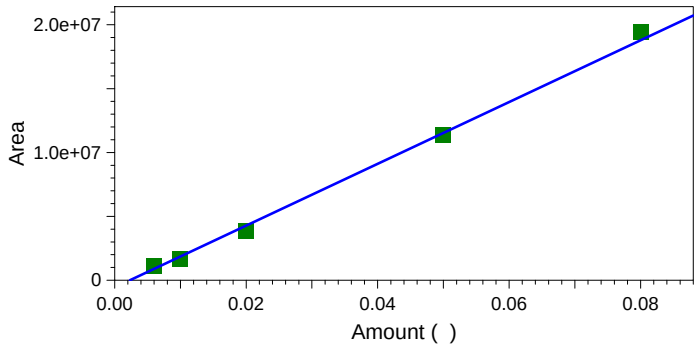
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:50
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #3 (front detector)
Average RF: 2.03704e+008 RF StDev: 3.17556e+007 RF %RSD: 15.5891
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.41811e+008x - 559428.
Goodness of fit (r^2): 0.996787

Peak: Toxaphene #3 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1144554	1639633	3850536	11390106	19477381
RF	190759000	163963300	192526800	227802120	243467262.5
Last Area					
Residual	-0.00104676	0.000905862	0.00176275	0.00058313	-0.00286151
Rep StDev					
Rep %RSD					
Rep 1 Area	1144554	1639633	3850536	11390106	19477381
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	
RF	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:50
User: JJY
Instrument: Semi 1 (Offline)

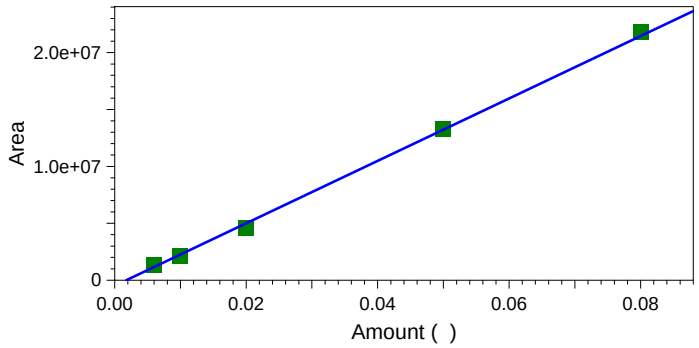
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:52
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #4 (front detector)
Average RF: 2.40756e+008 RF StDev: 2.65151e+007 RF %RSD: 11.0133
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.74161e+008x - 479373.
Goodness of fit (r^2): 0.998816

Peak: Toxaphene #4 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1319147	2159391	4596130	13247467	21858182
RF	219857833.333333	215939100	229806500	264949340	273227275
Last Area Residual	-0.000560086	0.00037513	0.00148714	-6.85408e-005	-0.00147606
Rep StDev					
Rep %RSD					
Rep 1 Area	1319147	2159391	4596130	13247467	21858182
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:52
User: JJY
Instrument: Semi 1 (Offline)

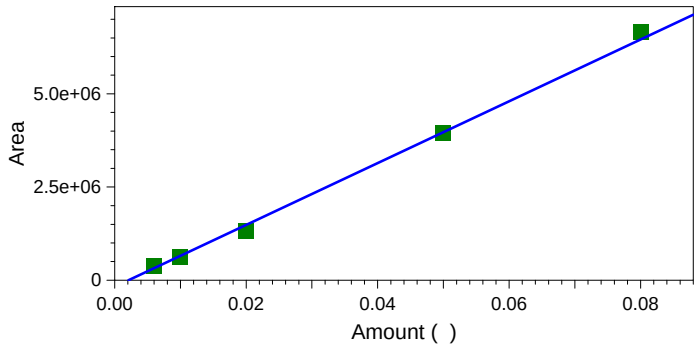
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:53
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #5 (front detector)
Average RF: 7.08698e+007 RF StDev: 9.54078e+006 RF %RSD: 13.4624
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 8.28638e+007x - 172936.
Goodness of fit (r^2): 0.997143

Peak: Toxaphene #5 -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	384992	624526	1310705	3939648	6672213
RF	64165333.33 33333	62452600	65535250	78792960	83402662.5
Last Area Residual	-0.00073307	0.000376234	0.00209542	0.000369339	-0.00260726
Rep StDev					
Rep %RSD					
Rep 1 Area	384992	624526	1310705	3939648	6672213
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:53
User: JJY
Instrument: Semi 1 (Offline)

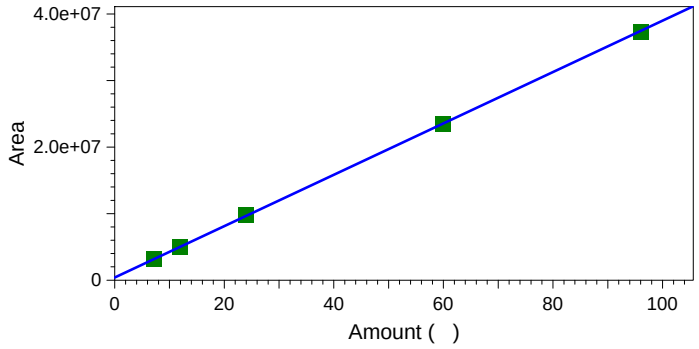
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:55
User: JJY
Instrument: Semi 1 (Offline)

SURRDCBPEST (front detector)
Average RF: 409055. RF StDev: 20584.3 RF %RSD: 5.03215
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 385943.x + 397106.
Goodness of fit (r^2): 0.999937

Peak: SURRDCBPEST -- ESTD -- front detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	7.2	12	24	60	96
Area	3172603	4951690	9856742	23524296	37365463
RF	440639.3055 55556	412640.833333 333	410697.5833333 33	392071.6	389223.57291 6667
Last Area Residual	0.00853767	0.198828	-0.510426	0.0762067	0.212999
Rep StDev					
Rep %RSD					
Rep 1 Area	3172603	4951690	9856742	23524296	37365463
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	144
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:55
User: JJY
Instrument: Semi 1 (Offline)

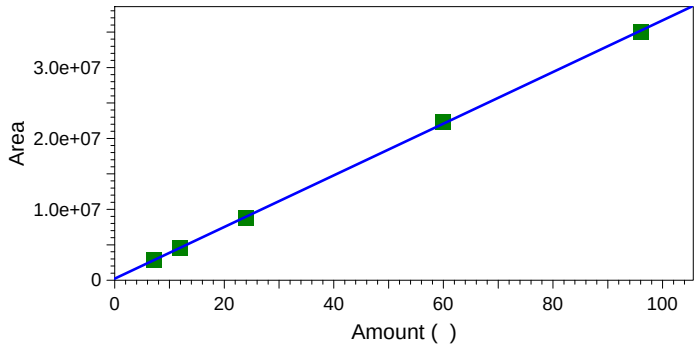
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:04
User: JJY
Instrument: Semi 1 (Offline)

SURRTCMXPEST (back detector)
Average RF: 377704. RF StDev: 15688.2 RF %RSD: 4.15357
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 364257.x + 228714.
Goodness of fit (r^2): 0.999819

Peak: SURRTCMXPEST -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	7.2	12	24	60	96
Area	2904547	4570939	8780701	22372413	35084329
RF	403409.3055 55556	380911.583333 333	365862.5416666 67	372873.55	365461.76041 6667
Last Area Residual	-0.146002	0.0792282	0.52211	-0.791407	0.310392
Rep StDev					
Rep %RSD					
Rep 1 Area	2904547	4570939	8780701	22372413	35084329
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	144
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:04
User: JJY
Instrument: Semi 1 (Offline)

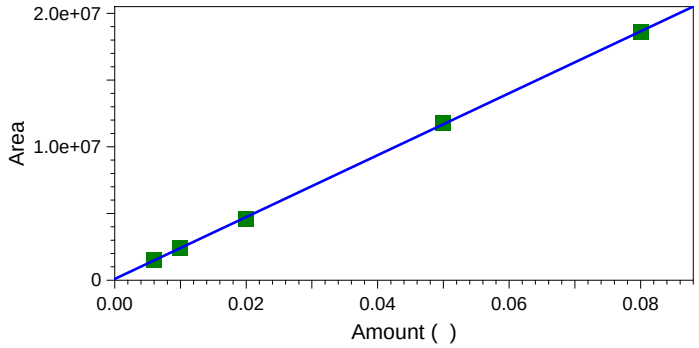
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:06
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #1 (back detector)
Average RF: 2.38633e+008 RF StDev: 9.63900e+006 RF %RSD: 4.03926
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.31837e+008x + 95390.9
Goodness of fit (r^2): 0.999811

Peak: Chlordane #1 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1524769	2406129	4582273	11814445	18641581
RF	254128166.666667	240612900	229113650	236288900	233019762.5
Last Area					
Residual	-0.000165438	3.29299e-005	0.000646414	-0.000548625	3.40571e-006
Rep StDev					
Rep %RSD					
Rep 1 Area	1524769	2406129	4582273	11814445	18641581
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:06
User: JJY
Instrument: Semi 1 (Offline)

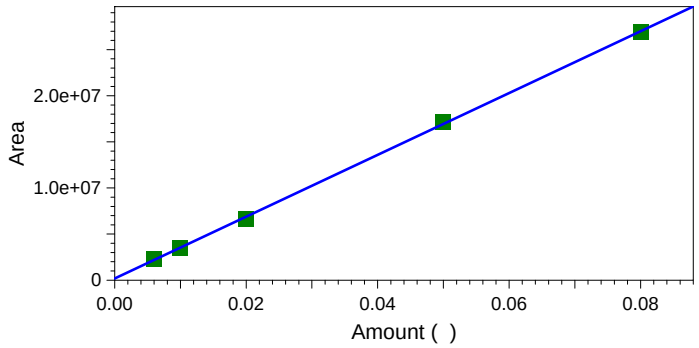
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:08
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #2 (back detector)
Average RF: 3.48000e+008 RF StDev: 1.72444e+007 RF %RSD: 4.95529
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.35189e+008x + 179675.
Goodness of fit (r^2): 0.999743

Peak: Chlordane #2 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	2257844	3507019	6649444	17170566	26968396
RF	376307333.333333	350701900	332472200	343411320	337104950
Last Area Residual	-0.000199993	7.3227e-005	0.000698139	-0.000690501	7.87241e-005
Rep StDev					
Rep %RSD					
Rep 1 Area	2257844	3507019	6649444	17170566	26968396
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:08
User: JJY
Instrument: Semi 1 (Offline)

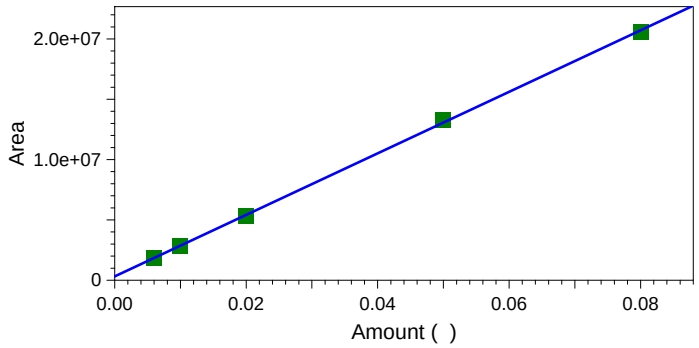
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:09
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #3 (back detector)
Average RF: 2.77596e+008 RF StDev: 2.12492e+007 RF %RSD: 7.65470
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.54988e+008x + 323208.
Goodness of fit (r^2): 0.999841

Peak: Chlordane #3 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1860511	2874604	5361018	13232747	20618367
RF	310085166.666667	287460400	268050900	264654940	257729587.5
Last Area Residual	-2.89239e-005	-5.94714e-006	0.000242949	-0.000628036	0.00040738
Rep StDev					
Rep %RSD					
Rep 1 Area	1860511	2874604	5361018	13232747	20618367
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:09
User: JJY
Instrument: Semi 1 (Offline)

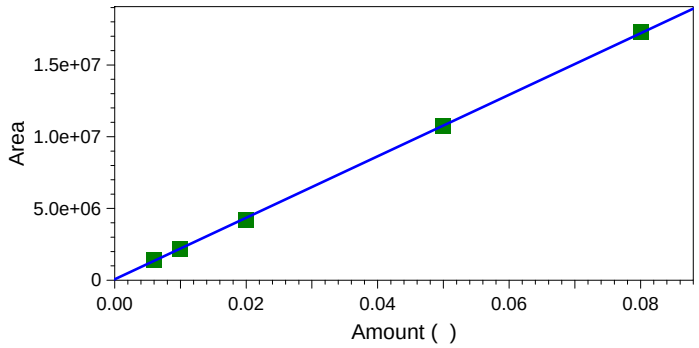
Area	
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:11
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #4 (back detector)
Average RF: 2.18725e+008 RF StDev: 8.05353e+006 RF %RSD: 3.68203
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.14336e+008x + 60912.6
Goodness of fit (r^2): 0.999806

Peak: Chlordane #4 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1393472	2185543	4220237	10755989	17335644
RF	232245333.333333	218554300	211011850	215119780	216695550
Last Area Residual	-0.000217152	8.7384e-005	0.000594373	0.000101351	-0.000596504
Rep StDev					
Rep %RSD					
Rep 1 Area	1393472	2185543	4220237	10755989	17335644
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:11
User: JJY
Instrument: Semi 1 (Offline)

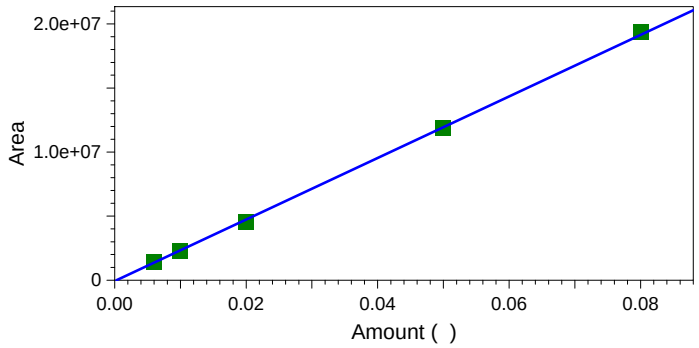
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:12
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #5 (back detector)
Average RF: 2.35912e+008 RF StDev: 7.53882e+006 RF %RSD: 3.19561
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.40137e+008x - 63491.4
Goodness of fit (r^2): 0.999429

Peak: Chlordane #5 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1457787	2307197	4515475	11872147	19412645
RF	242964500	230719700	225773750	237442940	242658062.5
Last Area					
Residual	-0.000335047	0.000127762	0.000931848	0.000296519	-0.00110432
Rep StDev					
Rep %RSD					
Rep 1 Area	1457787	2307197	4515475	11872147	19412645
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	
RF	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:12
User: JJY
Instrument: Semi 1 (Offline)

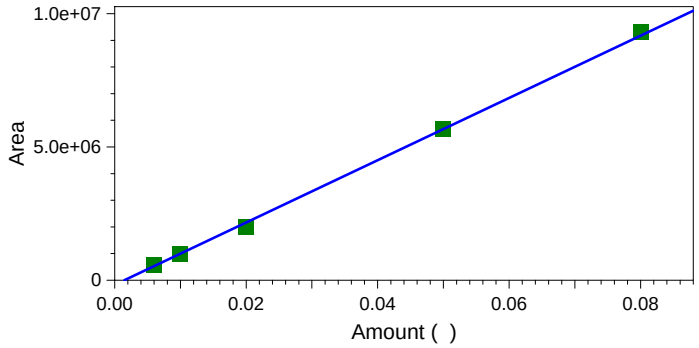
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:14
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #1 (back detector)
Average RF: 1.04932e+008 RF StDev: 9.43482e+006 RF %RSD: 8.99133
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.16814e+008x - 170101.
Goodness of fit (r^2): 0.998963

Peak: Toxaphene #1 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	572576	996564	1990857	5668055	9333795
RF	95429333.3333	99656400	99542850	113361100	116672437.5
Last Area					
Residual	-0.000357763	1.26437e-005	0.0015009	2.18656e-005	-0.00135908
Rep StDev					
Rep %RSD					
Rep 1 Area	572576	996564	1990857	5668055	9333795
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:14
User: JJY
Instrument: Semi 1 (Offline)

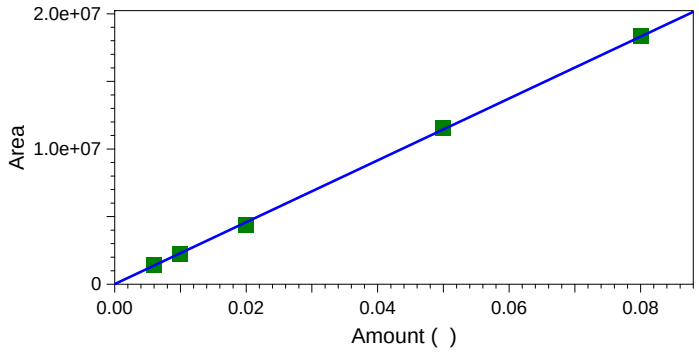
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:15
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #2 (back detector)
Average RF: 2.29367e+008 RF StDev: 7.96561e+006 RF %RSD: 3.47286
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.28862e+008x + 4145.89
Goodness of fit (r^2): 0.999719

Peak: Toxaphene #2 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	1446709	2255762	4388333	11539087	18395514
RF	241118166.666667	225576200	219416650	230781740	229943925
Last Area					
Residual	-0.000303192	0.000161701	0.000843562	-0.000401221	-0.000359961
Rep StDev					
Rep %RSD					
Rep 1 Area	1446709	2255762	4388333	11539087	18395514
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:15
User: JJY
Instrument: Semi 1 (Offline)

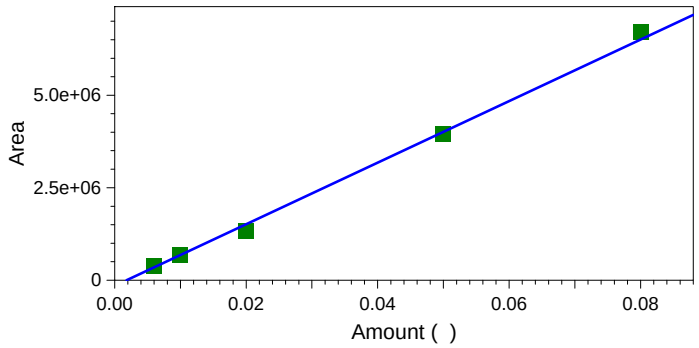
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:17
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #3 (back detector)
Average RF: 7.27951e+007 RF StDev: 8.35034e+006 RF %RSD: 11.4710
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 8.31749e+007x - 149507.
Goodness of fit (r^2): 0.997062

Peak: Toxaphene #3 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	391832	688225	1331124	3962668	6723035
RF	65305333.33 33333	68822500	66556200	79253360	84037937.5
Last Area Residual	-0.000508442	-7.19341e-005	0.00219858	0.000559888	-0.00262763
Rep StDev					
Rep %RSD					
Rep 1 Area	391832	688225	1331124	3962668	6723035
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:17
User: JJY
Instrument: Semi 1 (Offline)

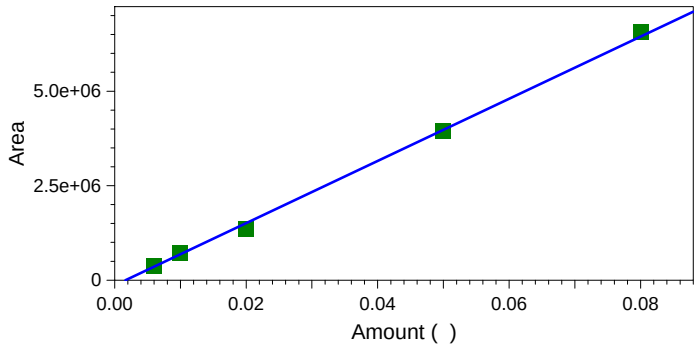
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:19
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #4 (back detector)
Average RF: 7.29388e+007 RF StDev: 8.05285e+006 RF %RSD: 11.0406
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 8.22768e+007x - 134333.
Goodness of fit (r^2): 0.998516

Peak: Toxaphene #4 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	374415	725478	1365287	3960563	6581435
RF	62402500	72547800	68264350	79211260	82267937.5
Last Area					
Residual	-0.000183369	-0.000450223	0.00177347	0.000230231	-0.00162411
Rep StDev					
Rep %RSD					
Rep 1 Area	374415	725478	1365287	3960563	6581435
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	
RF	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:19
User: JJY
Instrument: Semi 1 (Offline)

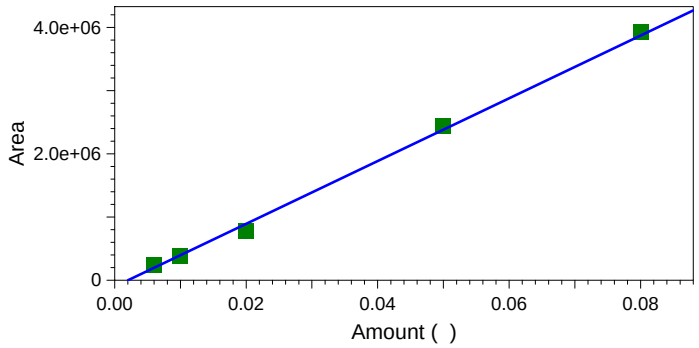
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:20
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #5 (back detector)
Average RF: 4.27313e+007 RF StDev: 5.73542e+006 RF %RSD: 13.4221
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 4.96547e+007x - 100460.
Goodness of fit (r^2): 0.997917

Peak: Toxaphene #5 -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.006	0.01	0.02	0.05	0.08
Area	234304	375630	781841	2437600	3935905
RF	39050666.6666667	37563000	39092050	48752000	49198812.5
Last Area Residual	-0.000741838	0.000411985	0.00223127	-0.00111421	-0.0012887
Rep StDev					
Rep %RSD					
Rep 1 Area	234304	375630	781841	2437600	3935905
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	0.12
Area	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:20
User: JJY
Instrument: Semi 1 (Offline)

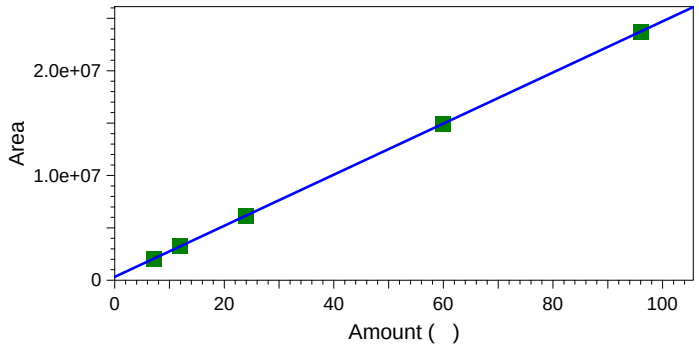
RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Calibration Report

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:22
User: JJY
Instrument: Semi 1 (Offline)

SURRDCBPEST (back detector)
Average RF: 262099. RF StDev: 16062.3 RF %RSD: 6.12835
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 243919.x + 312627.
Goodness of fit (r^2): 0.999980

Peak: SURRDCBPEST -- ESTD -- back detector



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	7.2	12	24	60	96
Area	2038004	3297559	6164474	14904003	23749337
RF	283056.1111 11111	274796.583333 333	256853.0833333 33	248400.05	247388.92708 3333
Last Area Residual	0.126428	-0.237402	0.00903076	0.179354	-0.0840948
Rep StDev					
Rep %RSD					
Rep 1 Area	2038004	3297559	6164474	14904003	23749337
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi1\data\111419pstic\004.dat	C:\Instarch\Semi1\data\111419pstic\005.dat	C:\Instarch\Semi1\data\111419pstic\006.dat	C:\Instarch\Semi1\data\111419pstic\007.dat	C:\Instarch\Semi1\data\111419pstic\008.dat
Rep 1 Sample ID	TC ICAL 1 PP6033	TC ICAL 2 PP6034	TC ICAL 3 PP6035	TC ICAL 4 PP6036	TC ICAL 5 PP6037
Rep 1 Calib. Time	11/15/2019 11:38:18	11/15/2019 11:38:27	11/15/2019 11:38:42	11/15/2019 11:39:00	11/15/2019 11:39:14

	Level 6
Amount	144
Area	

Calibration Report

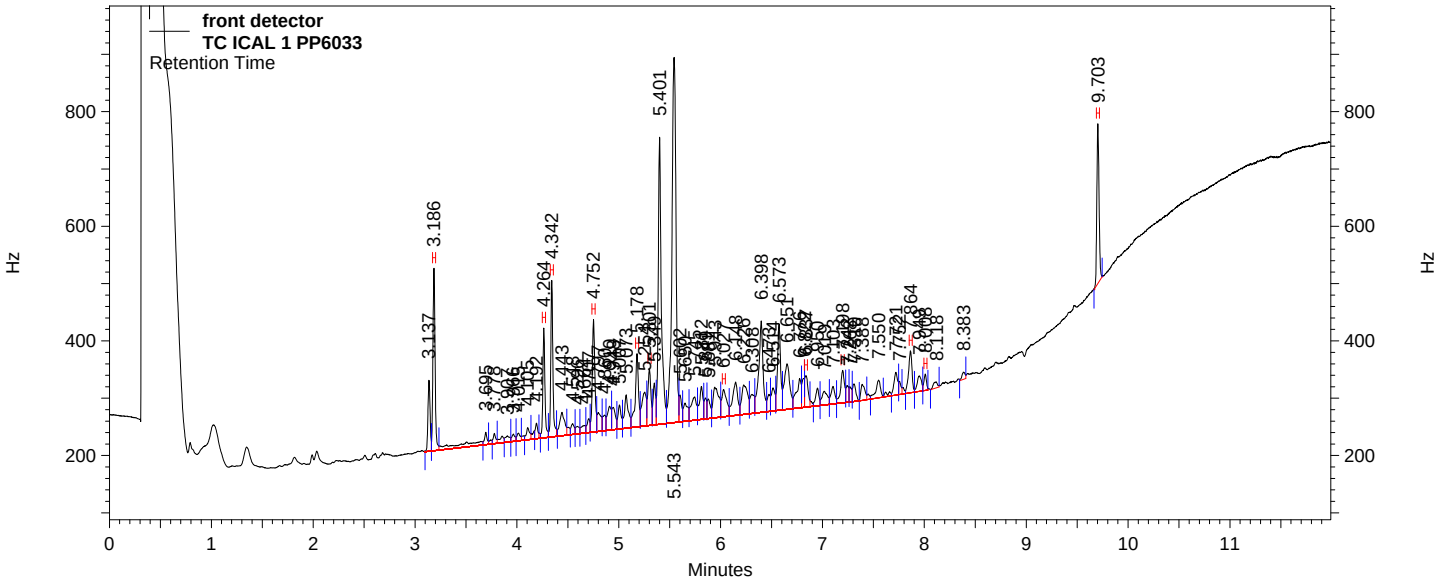
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:22
User: JJY
Instrument: Semi 1 (Offline)

RF	
Last Area	
Residual	N/A
Rep StDev	
Rep %RSD	
Rep 1 Area	
Rep 1 User	
Rep 1 Data File	
Rep 1 Sample ID	
Rep 1 Calib. Time	

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\004.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICAL 1 PP6033
Acquired: 11/14/2019 16:49:42
Printed: 11/18/2019 08:41:21

Data Summary: {Data Description}



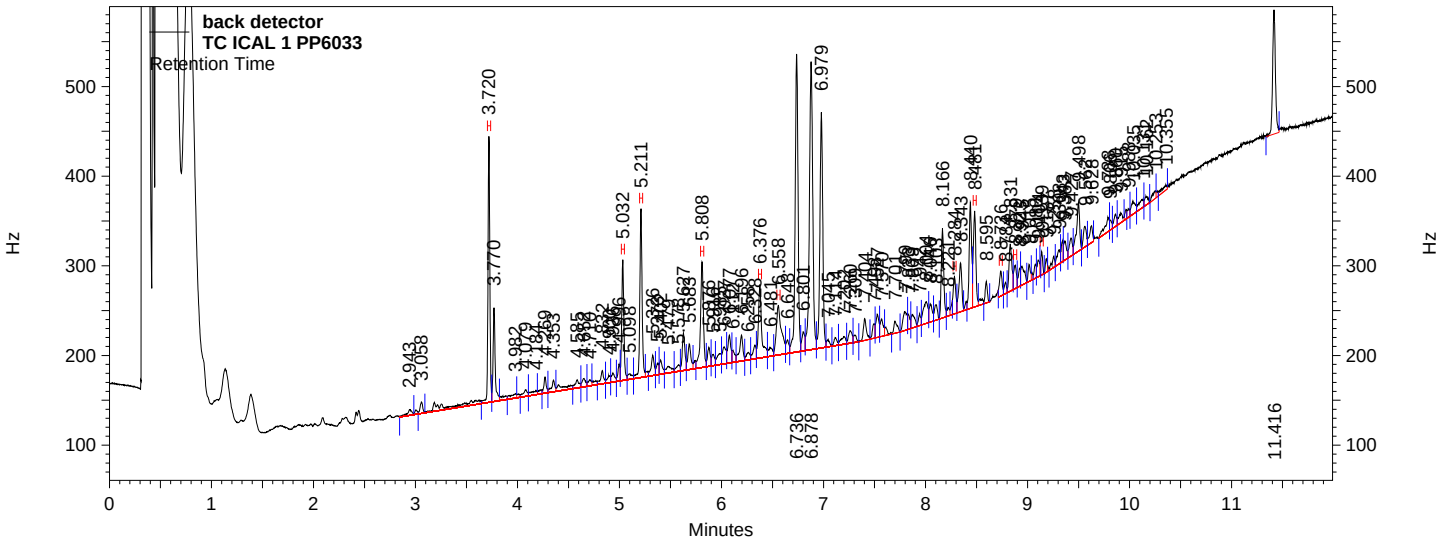
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.186	3664972	7.2000 CAL
Chlordane #1	4.264	2117570	0.0060 CAL
Chlordane #2	4.342	3059196	0.0060 CAL
Chlordane #3	4.752	2690292	0.0060 CAL
Chlordane #4	5.178	2205676	0.0060 CAL
Chlordane #5	5.301	1586246	0.0060 CAL
Toxaphene #1	6.027	1237174	0.0060 CAL
Toxaphene #2	6.837	948680	0.0060 CAL
Toxaphene #3	7.198	1144554	0.0060 CAL
Toxaphene #4	7.864	1319147	0.0060 CAL
Toxaphene #5	8.008	384992	0.0060 CAL
SURRDCBPEST	9.703	3172603	7.2000 CAL
Chlordane		11658980	0.0300 CAL
Toxaphene		5034547	0.0300 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\004.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICAL 1 PP6033
Acquired: 11/14/2019 16:49:42
Printed: 11/18/2019 08:41:21

Data Summary: {Data Description}



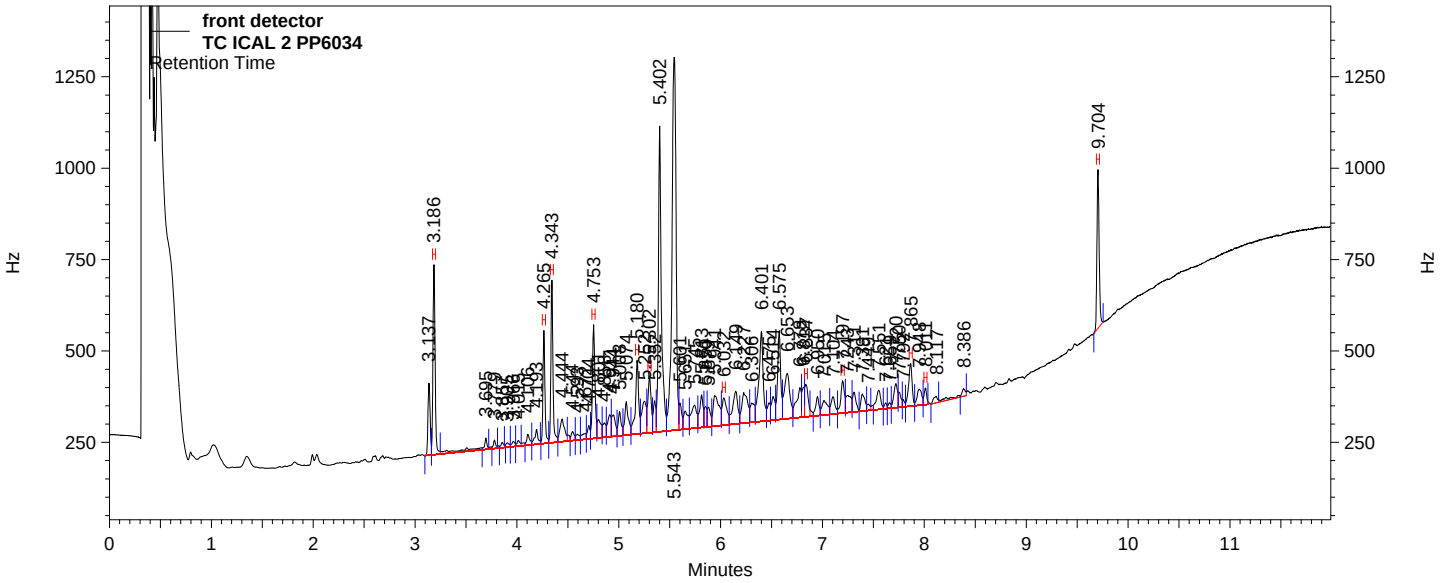
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.720	2904547	7.2000 CAL
Chlordane #1	5.032	1524769	0.0060 CAL
Chlordane #2	5.211	2257844	0.0060 CAL
Chlordane #3	5.808	1860511	0.0060 CAL
Chlordane #4	6.376	1393472	0.0060 CAL
Chlordane #5	6.558	1457787	0.0060 CAL
Toxaphene #1	8.284	572576	0.0060 CAL
Toxaphene #2	8.481	1446709	0.0060 CAL
Toxaphene #3	8.736	391832	0.0060 CAL
Toxaphene #4	8.879	374415	0.0060 CAL
Toxaphene #5	9.139	234304	0.0060 CAL
SURRDCBPEST	11.416	2038004	7.2000 CAL
Chlordane		8494383	0.0300 CAL
Toxaphene		3019836	0.0300 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\005.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICAL 2 PP6034
Acquired: 11/14/2019 17:05:56
Printed: 11/18/2019 08:41:24

Data Summary: {Data Description}



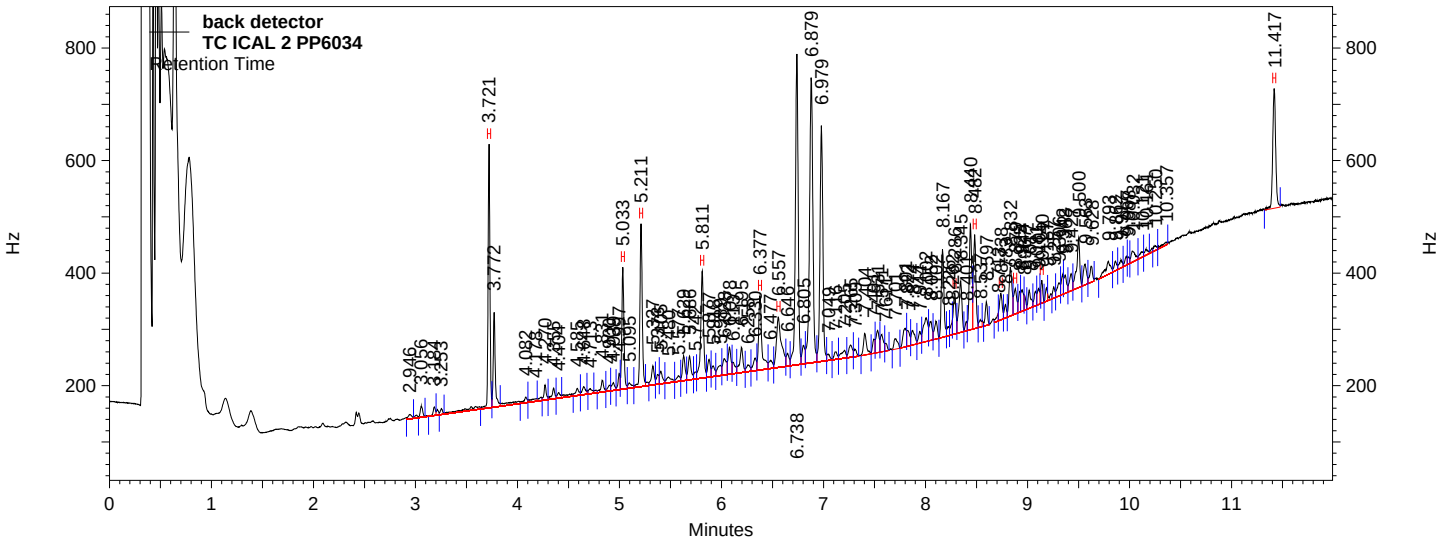
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.186	5904550	12.0000 CAL
Chlordane #1	4.265	3238813	0.0100 CAL
Chlordane #2	4.343	4872890	0.0100 CAL
Chlordane #3	4.753	4193709	0.0100 CAL
Chlordane #4	5.180	3421424	0.0100 CAL
Chlordane #5	5.302	2595590	0.0100 CAL
Toxaphene #1	6.032	1845651	0.0100 CAL
Toxaphene #2	6.837	1567793	0.0100 CAL
Toxaphene #3	7.197	1639633	0.0100 CAL
Toxaphene #4	7.865	2159391	0.0100 CAL
Toxaphene #5	8.011	624526	0.0100 CAL
SURRDCBPEST	9.704	4951690	12.0000 CAL
Chlordane		18322426	0.0500 CAL
Toxaphene		7836994	0.0500 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\005.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICAL 2 PP6034
Acquired: 11/14/2019 17:05:56
Printed: 11/18/2019 08:41:24

Data Summary: {Data Description}



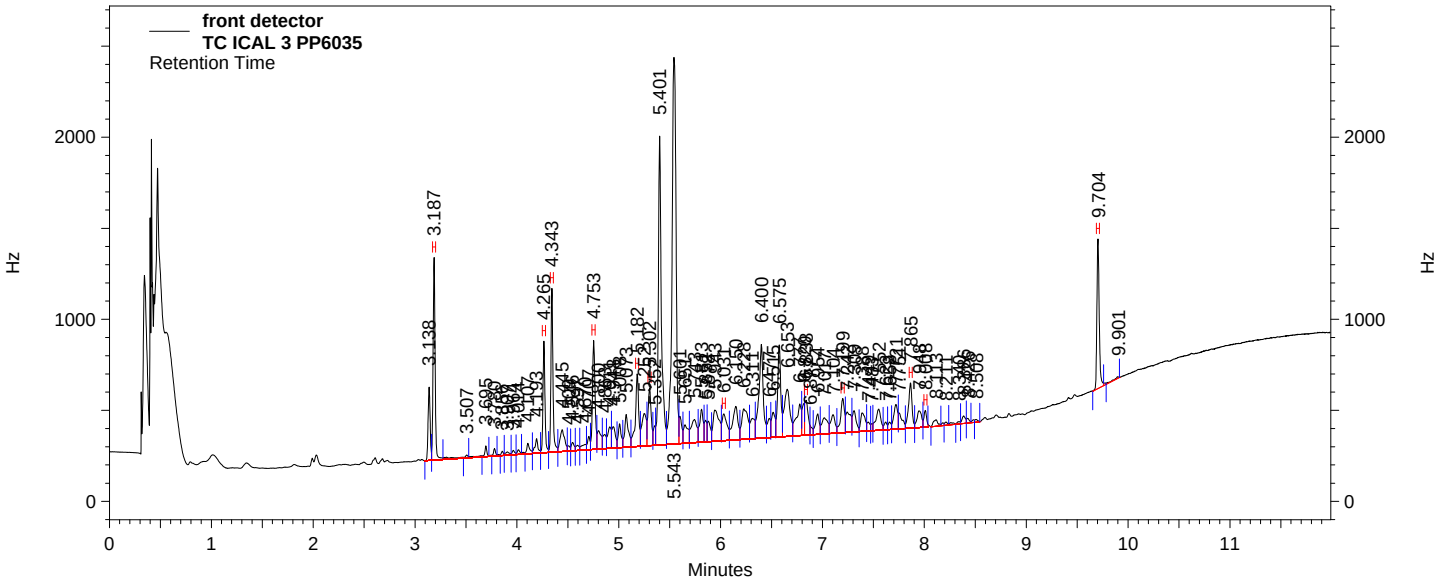
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.721	4570939	12.0000 CAL
Chlordane #1	5.033	2406129	0.0100 CAL
Chlordane #2	5.211	3507019	0.0100 CAL
Chlordane #3	5.811	2874604	0.0100 CAL
Chlordane #4	6.377	2185543	0.0100 CAL
Chlordane #5	6.557	2307197	0.0100 CAL
Toxaphene #1	8.286	996564	0.0100 CAL
Toxaphene #2	8.482	2255762	0.0100 CAL
Toxaphene #3	8.738	688225	0.0100 CAL
Toxaphene #4	8.879	725478	0.0100 CAL
Toxaphene #5	9.140	375630	0.0100 CAL
SURRDCBPEST	11.417	3297559	12.0000 CAL
Chlordane		13280492	0.0500 CAL
Toxaphene		5041659	0.0500 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\006.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICAL 3 PP6035
Acquired: 11/14/2019 17:22:10
Printed: 11/18/2019 08:41:27

Data Summary: {Data Description}



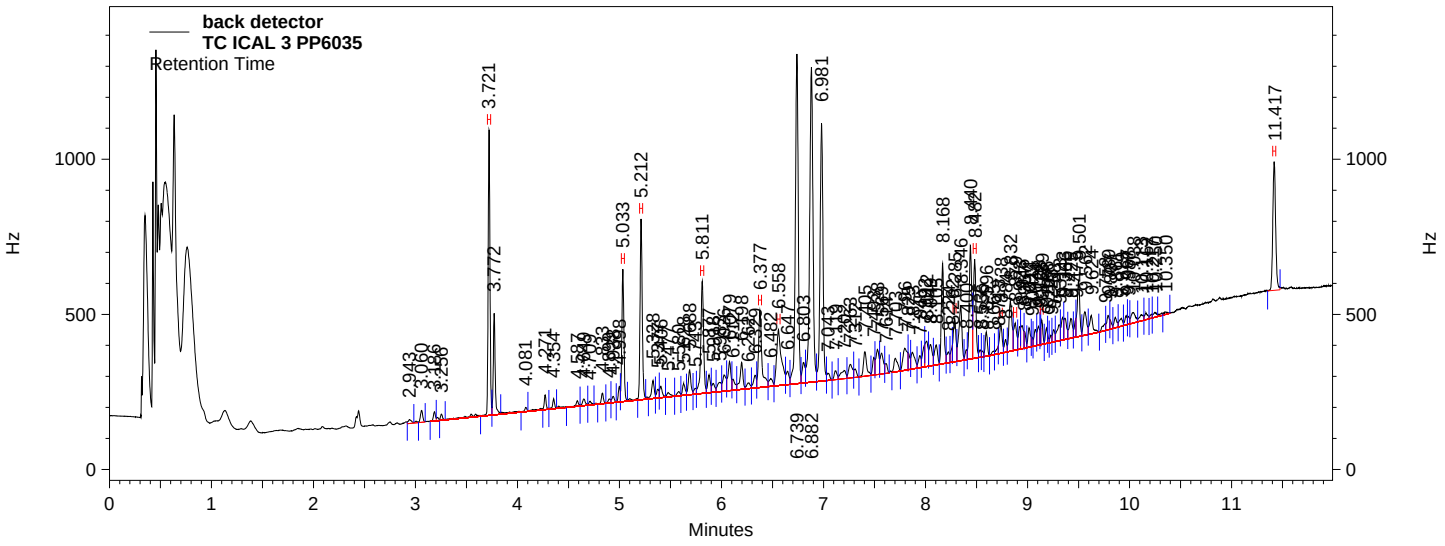
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.187	11878633	24.0000 CAL
Chlordane #1	4.265	6423536	0.0200 CAL
Chlordane #2	4.343	9759729	0.0200 CAL
Chlordane #3	4.753	8166462	0.0200 CAL
Chlordane #4	5.182	6900731	0.0200 CAL
Chlordane #5	5.302	5281701	0.0200 CAL
Toxaphene #1	6.031	3842743	0.0200 CAL
Toxaphene #2	6.838	3433137	0.0200 CAL
Toxaphene #3	7.199	3850536	0.0200 CAL
Toxaphene #4	7.865	4596130	0.0200 CAL
Toxaphene #5	8.008	1310705	0.0200 CAL
SURRDCBPEST	9.704	9856742	24.0000 CAL
Chlordane		36532159	0.1000 CAL
Toxaphene		17033251	0.1000 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\006.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICAL 3 PP6035
Acquired: 11/14/2019 17:22:10
Printed: 11/18/2019 08:41:27

Data Summary: {Data Description}



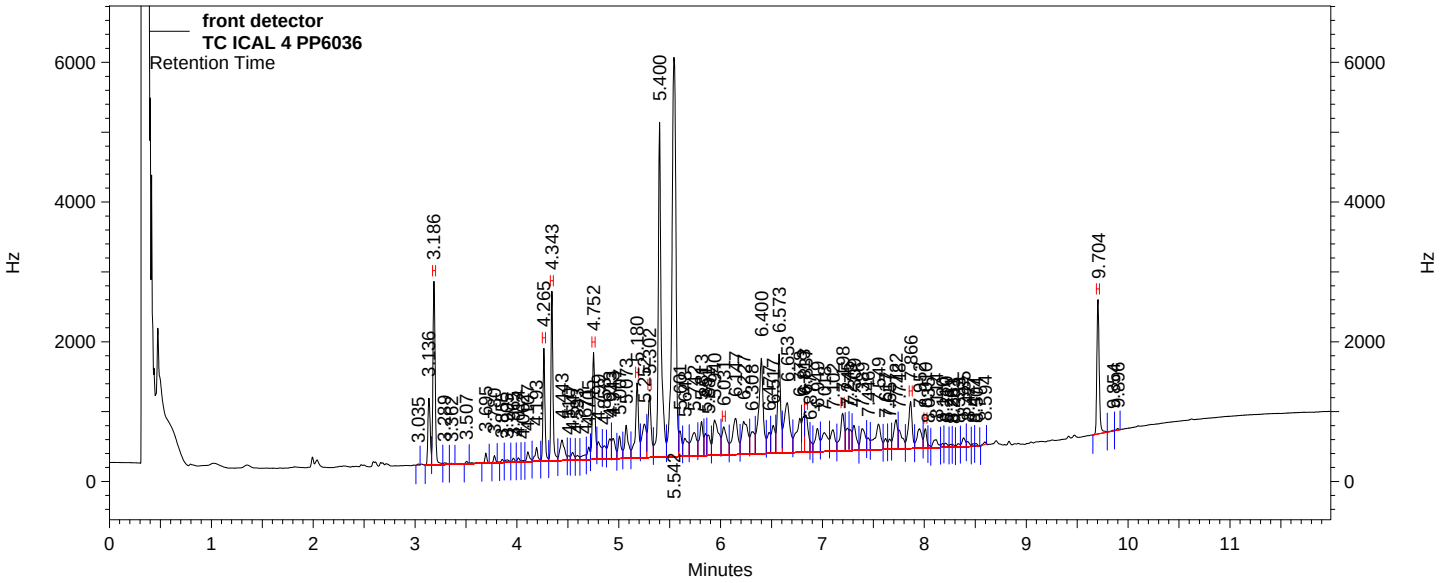
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.721	8780701	24.0000 CAL
Chlordane #1	5.033	4582273	0.0200 CAL
Chlordane #2	5.212	6649444	0.0200 CAL
Chlordane #3	5.811	5361018	0.0200 CAL
Chlordane #4	6.377	4220237	0.0200 CAL
Chlordane #5	6.558	4515475	0.0200 CAL
Toxaphene #1	8.285	1990857	0.0200 CAL
Toxaphene #2	8.482	4388333	0.0200 CAL
Toxaphene #3	8.738	1331124	0.0200 CAL
Toxaphene #4	8.879	1365287	0.0200 CAL
Toxaphene #5	9.139	781841	0.0200 CAL
SURRDCBPEST	11.417	6164474	24.0000 CAL
Chlordane		25328447	0.1000 CAL
Toxaphene		9857442	0.1000 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\007.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICAL 4 PP6036
Acquired: 11/14/2019 17:38:32
Printed: 11/18/2019 08:41:30

Data Summary: {Data Description}



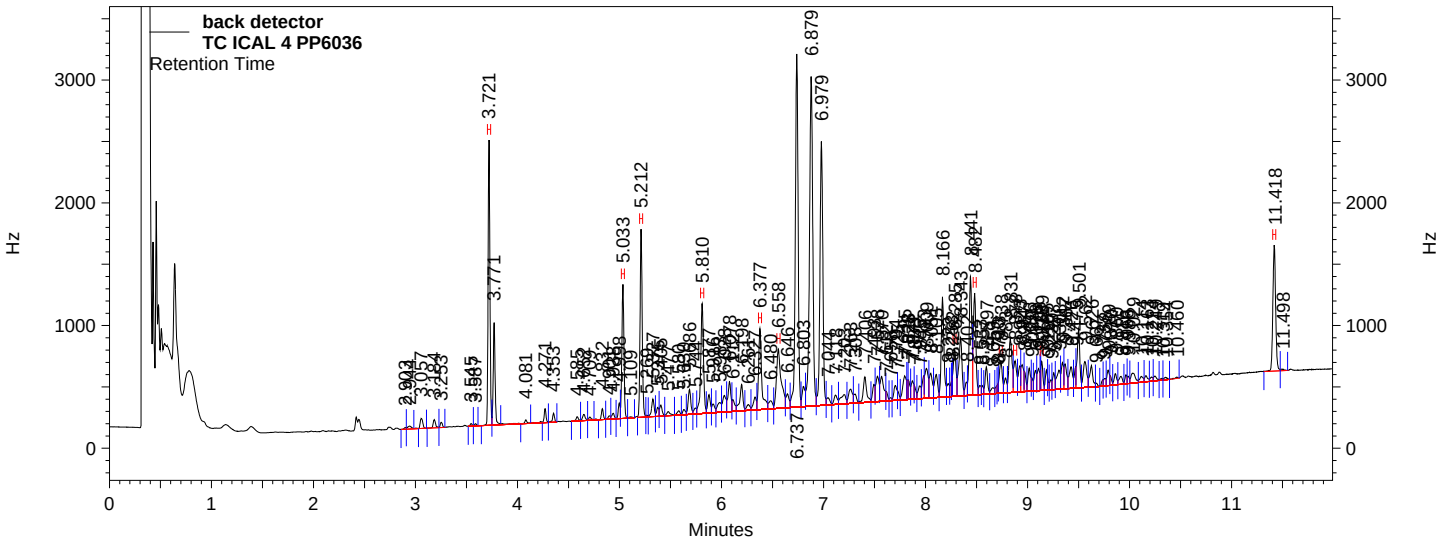
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.186	31075268	60.0000 CAL
Chlordane #1	4.265	16591500	0.0500 CAL
Chlordane #2	4.343	25635193	0.0500 CAL
Chlordane #3	4.752	20485065	0.0500 CAL
Chlordane #4	5.180	17636452	0.0500 CAL
Chlordane #5	5.302	14839503	0.0500 CAL
Toxaphene #1	6.031	10512348	0.0500 CAL
Toxaphene #2	6.837	9427123	0.0500 CAL
Toxaphene #3	7.198	11390106	0.0500 CAL
Toxaphene #4	7.866	13247467	0.0500 CAL
Toxaphene #5	8.010	3939648	0.0500 CAL
SURRDCBPEST	9.704	23524296	60.0000 CAL
Chlordane		95187713	0.2500 CAL
Toxaphene		48516692	0.2500 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\007.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICAL 4 PP6036
Acquired: 11/14/2019 17:38:32
Printed: 11/18/2019 08:41:30

Data Summary: {Data Description}



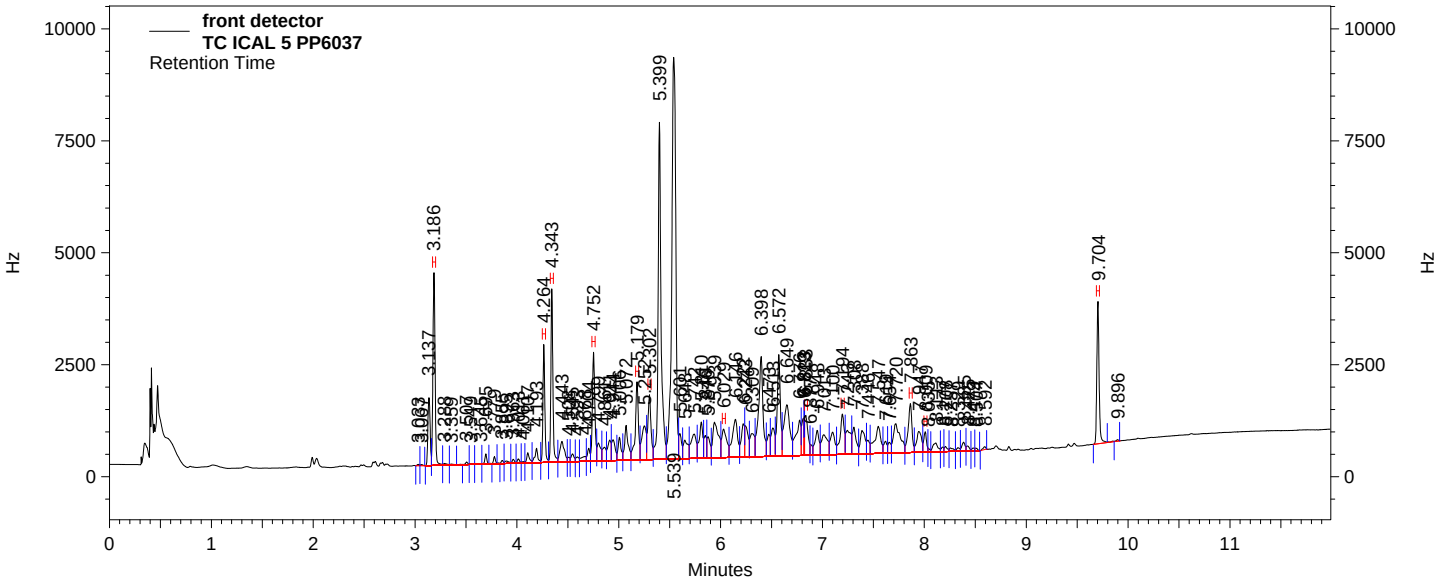
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.721	22372413	60.0000 CAL
Chlordane #1	5.033	11814445	0.0500 CAL
Chlordane #2	5.212	17170566	0.0500 CAL
Chlordane #3	5.810	13232747	0.0500 CAL
Chlordane #4	6.377	10755989	0.0500 CAL
Chlordane #5	6.558	11872147	0.0500 CAL
Toxaphene #1	8.285	5668055	0.0500 CAL
Toxaphene #2	8.482	11539087	0.0500 CAL
Toxaphene #3	8.738	3962668	0.0500 CAL
Toxaphene #4	8.878	3960563	0.0500 CAL
Toxaphene #5	9.139	2437600	0.0500 CAL
SURRDCBPEST	11.418	14904003	60.0000 CAL
Chlordane		64845894	0.2500 CAL
Toxaphene		27567973	0.2500 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\008.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICAL 5 PP6037
Acquired: 11/14/2019 17:54:49
Printed: 11/18/2019 08:41:34

Data Summary: {Data Description}



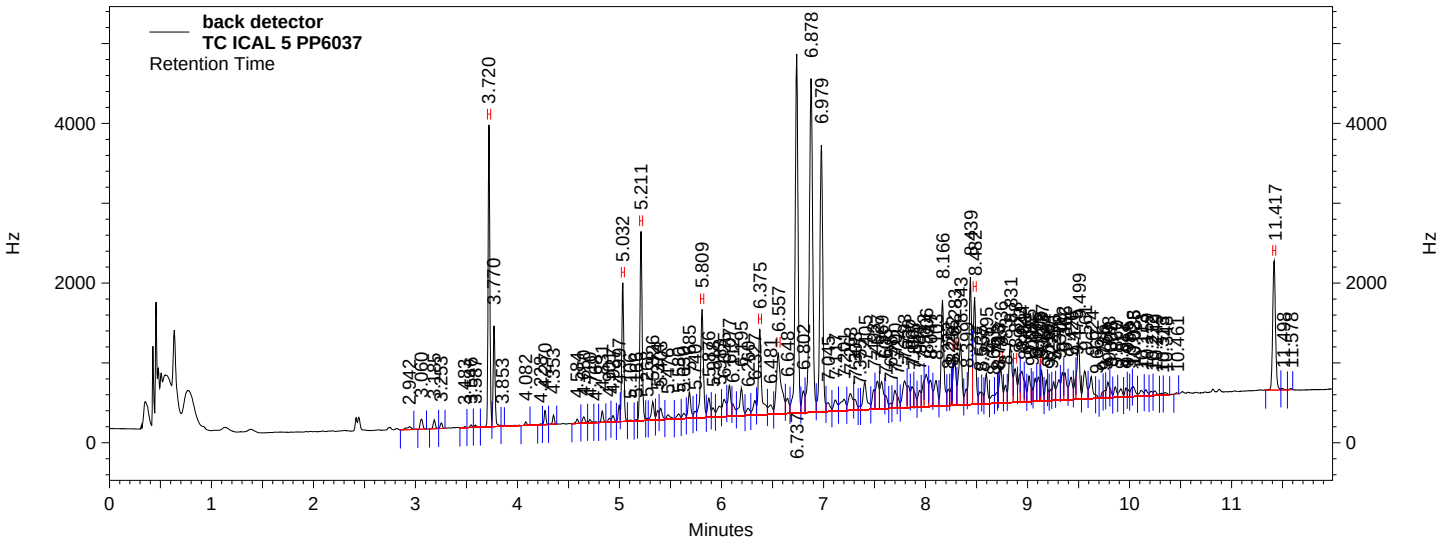
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.186	49555445	96.0000 CAL
Chlordane #1	4.264	26436295	0.0800 CAL
Chlordane #2	4.343	40993137	0.0800 CAL
Chlordane #3	4.752	31985630	0.0800 CAL
Chlordane #4	5.179	27976242	0.0800 CAL
Chlordane #5	5.302	23827003	0.0800 CAL
Toxaphene #1	6.029	16820686	0.0800 CAL
Toxaphene #2	6.833	15294674	0.0800 CAL
Toxaphene #3	7.194	19477381	0.0800 CAL
Toxaphene #4	7.863	21858182	0.0800 CAL
Toxaphene #5	8.009	6672213	0.0800 CAL
SURRDCBPEST	9.704	37365463	96.0000 CAL
Chlordane		151218307	0.4000 CAL
Toxaphene		80123136	0.4000 CAL

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\008.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICAL 5 PP6037
Acquired: 11/14/2019 17:54:49
Printed: 11/18/2019 08:41:34

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.720	35084329	96.0000 CAL
Chlordane #1	5.032	18641581	0.0800 CAL
Chlordane #2	5.211	26968396	0.0800 CAL
Chlordane #3	5.809	20618367	0.0800 CAL
Chlordane #4	6.375	17335644	0.0800 CAL
Chlordane #5	6.557	19412645	0.0800 CAL
Toxaphene #1	8.283	9333795	0.0800 CAL
Toxaphene #2	8.482	18395514	0.0800 CAL
Toxaphene #3	8.736	6723035	0.0800 CAL
Toxaphene #4	8.878	6581435	0.0800 CAL
Toxaphene #5	9.137	3935905	0.0800 CAL
SURRDCBPEST	11.417	23749337	96.0000 CAL
Chlordane		102976633	0.4000 CAL
Toxaphene		44969684	0.4000 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\111419pstic.seq
User : JJY
Printed : 11/18/2019 08:41:42

File	Sample ID	Acquired
C:\Instarch\Semi1\data\111419pstic\010.dat	TC ICV PP6039	11/18/2019 08:41:42

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	60.234	0.389	20.000	Passed
Chlordane #1	0.050	0.052	3.353	20.000	Passed
Chlordane #2	0.050	0.051	2.990	20.000	Passed
Chlordane #3	0.050	0.052	3.772	20.000	Passed
Chlordane #4	0.050	0.052	4.220	20.000	Passed
Chlordane #5	0.050	0.052	3.137	20.000	Passed
Toxaphene #1	0.050	0.052	3.366	20.000	Passed
Toxaphene #2	0.050	0.052	4.710	20.000	Passed
Toxaphene #3	0.050	0.052	3.188	20.000	Passed
Toxaphene #4	0.050	0.051	1.861	20.000	Passed
Toxaphene #5	0.050	0.050	0.834	20.000	Passed
SURRDCBPEST	60.000	62.945	4.909	20.000	Passed
Chlordane	0.250	0.259	3.495	20.000	Passed
Toxaphene	0.250	0.256	2.458	20.000	Passed

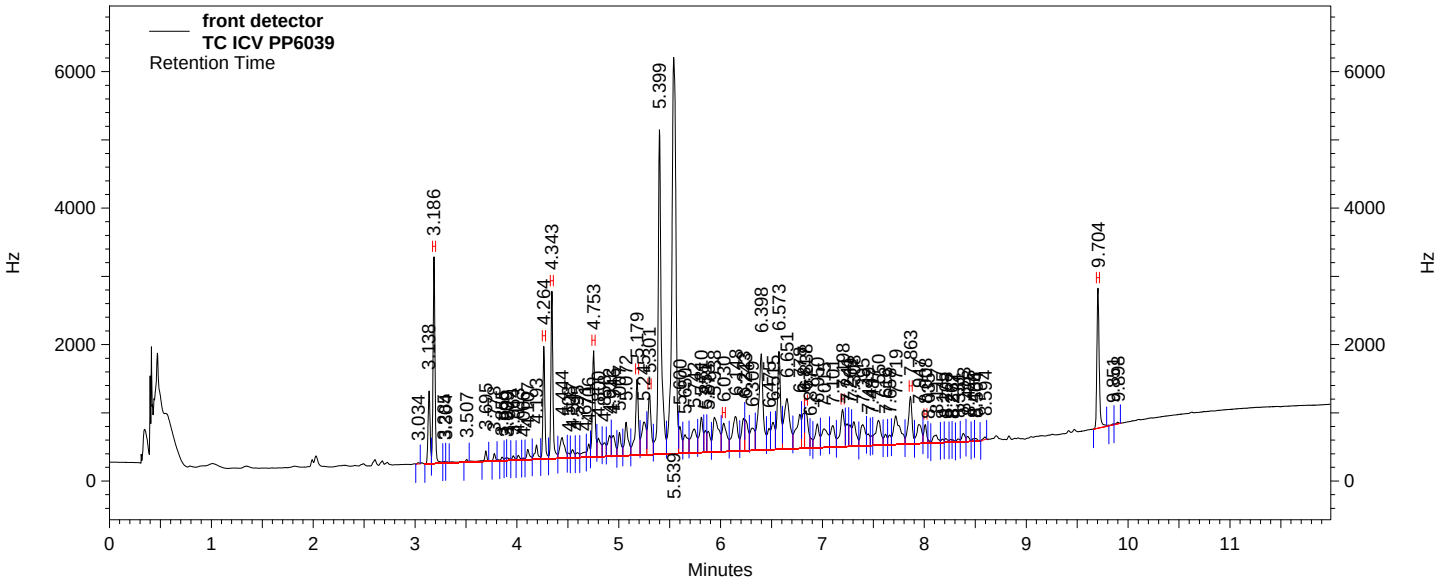
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	60.308	0.513	20.000	Passed
Chlordane #1	0.050	0.051	2.421	20.000	Passed
Chlordane #2	0.050	0.052	3.047	20.000	Passed
Chlordane #3	0.050	0.051	2.884	20.000	Passed
Chlordane #4	0.050	0.051	1.791	20.000	Passed
Chlordane #5	0.050	0.050	0.185	20.000	Passed
Toxaphene #1	0.050	0.050	0.611	20.000	Passed
Toxaphene #2	0.050	0.051	1.876	20.000	Passed
Toxaphene #3	0.050	0.049	1.498	20.000	Passed
Toxaphene #4	0.050	0.050	0.265	20.000	Passed
Toxaphene #5	0.050	0.051	2.271	20.000	Passed
SURRDCBPEST	60.000	62.489	4.149	20.000	Passed
Chlordane	0.250	0.255	2.065	20.000	Passed
Toxaphene	0.250	0.251	0.354	20.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\111419pstic\010.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICV PP6039
Acquired: 11/14/2019 18:27:30
Printed: 11/18/2019 08:41:40

Data Summary: {Data Description}



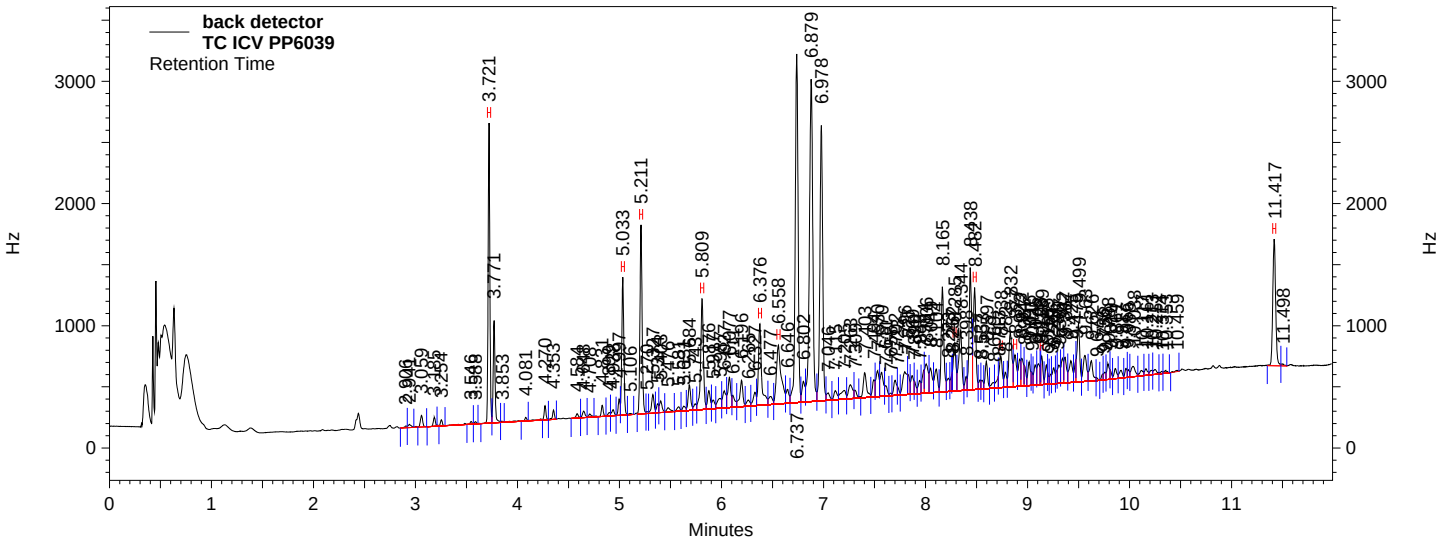
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.186	30960996	60.2337
Chlordane #1	4.264	17034127	0.0517
Chlordane #2	4.343	26234039	0.0515
Chlordane #3	4.753	20956575	0.0519
Chlordane #4	5.179	18233319	0.0521
Chlordane #5	5.301	15124250	0.0516
Toxaphene #1	6.030	10738741	0.0517
Toxaphene #2	6.838	9833512	0.0524
Toxaphene #3	7.198	11916618	0.0516
Toxaphene #4	7.863	13483785	0.0509
Toxaphene #5	8.008	3935700	0.0496
SURRDCBPEST	9.704	24690399	62.9452
Chlordane		97582310	0.2587
Toxaphene		49908356	0.2561

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\111419pstic\010.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
User: JJY
Sample ID: TC ICV PP6039
Acquired: 11/14/2019 18:27:30
Printed: 11/18/2019 08:41:40

Data Summary: {Data Description}



back detector Results

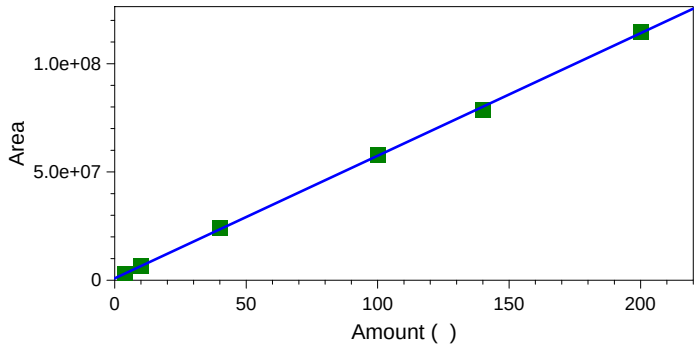
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.721	22196179	60.3076
Chlordane #1	5.033	11967904	0.0512
Chlordane #2	5.211	17449742	0.0515
Chlordane #3	5.809	13440236	0.0514
Chlordane #4	6.376	10969602	0.0509
Chlordane #5	6.558	11965565	0.0501
Toxaphene #1	8.285	5634903	0.0497
Toxaphene #2	8.482	11661951	0.0509
Toxaphene #3	8.738	3946933	0.0493
Toxaphene #4	8.877	3968585	0.0499
Toxaphene #5	9.139	2438656	0.0511
SURRDCBPEST	11.417	15554941	62.4893
Chlordane		65793049	0.2552
Toxaphene		27651028	0.2509

Calibration Report

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:30
User: JJY
Instrument: Semi 6

SURRDCAA (Front Signal)
Average RF: 621051. RF StDev: 72942.1 RF %RSD: 11.7449
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 566252.x + 836010.
Goodness of fit (r^2): 0.999628

Peak: SURRDCAA -- ESTD -- Front Signal



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	40	100	140
Area	3000305	6637583	23961867	57844502	78488614
RF	750076.25	663758.3	599046.675	578445.02	560632.95714 2857
Last Area Residual	0.17786	-0.245564	-0.840209	-0.676862	2.86568
Rep StDev					
Rep %RSD					
Rep 1 Area	3000305	6637583	23961867	57844502	78488614
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\004.dat	C:\Instarch\Semi6\Data\110719hrbic\005.dat	C:\Instarch\Semi6\Data\110719hrbic\006.dat	C:\Instarch\Semi6\Data\110719hrbic\007.dat	C:\Instarch\Semi6\Data\110719hrbic\008.dat
Rep 1 Sample ID	AH ICAL 1 PP 6076	AH ICAL 2 PP 6077	AH ICAL 3 PP 6078	AH ICAL 4 PP 6079	AH ICAL 5 PP 6080
Rep 1 Calib. Time	11/07/2019 15:27:46	11/07/2019 15:27:55	11/07/2019 15:28:04	11/07/2019 15:28:13	11/07/2019 15:49:03

	Level 6
Amount	200
Area	114868921

Calibration Report

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:30
User: JJY
Instrument: Semi 6

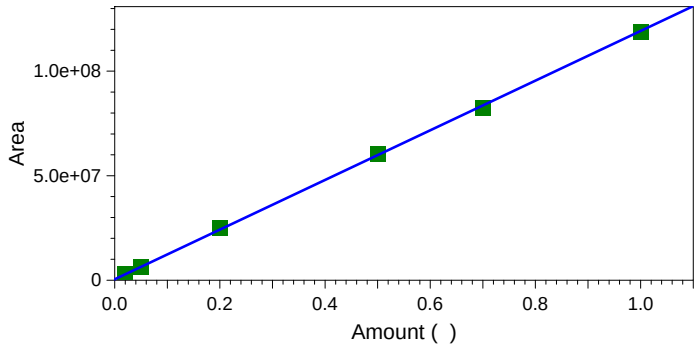
RF	574344.605
Last Area	
Residual	-1.38185
Rep StDev	
Rep %RSD	
Rep 1 Area	114868921
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\009.dat
Rep 1 Sample ID	AH ICAL 6 PP 6081
Rep 1 Calib. Time	11/07/2019 16:01:24

Calibration Report

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:32
User: JJY
Instrument: Semi 6

2,4-D (Front Signal)
Average RF: 1.24626e+008 RF StDev: 7.14567e+006 RF %RSD: 5.73370
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.18824e+008x + 441426.
Goodness of fit (r^2): 0.999750

Peak: 2,4-D -- ESTD -- Front Signal



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.02	0.05	0.2	0.5	0.7
Area	2742862	6363417	25095933	60526470	82453473
RF	137143100	127268340	125479665	121052940	117790675.714286
Last Area Residual	0.000631575	0.000161713	-0.00748737	-0.00566363	0.00980312
Rep StDev					
Rep %RSD					
Rep 1 Area	2742862	6363417	25095933	60526470	82453473
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\004.dat	C:\Instarch\Semi6\Data\110719hrbic\005.dat	C:\Instarch\Semi6\Data\110719hrbic\006.dat	C:\Instarch\Semi6\Data\110719hrbic\007.dat	C:\Instarch\Semi6\Data\110719hrbic\008.dat
Rep 1 Sample ID	AH ICAL 1 PP 6076	AH ICAL 2 PP 6077	AH ICAL 3 PP 6078	AH ICAL 4 PP 6079	AH ICAL 5 PP 6080
Rep 1 Calib. Time	11/07/2019 15:27:46	11/07/2019 15:27:55	11/07/2019 15:28:04	11/07/2019 15:28:13	11/07/2019 15:49:03

	Level 6
Amount	1
Area	119020111

Calibration Report

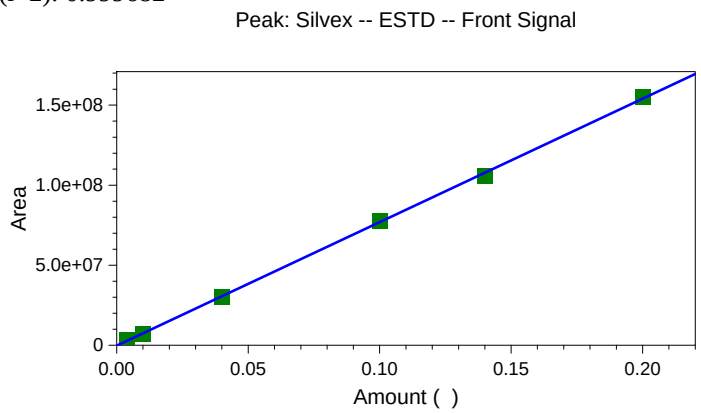
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:32
User: JJY
Instrument: Semi 6

RF	119020111
Last Area	
Residual	0.00206566
Rep StDev	
Rep %RSD	
Rep 1 Area	119020111
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\009.dat
Rep 1 Sample ID	AH ICAL 6 PP 6081
Rep 1 Calib. Time	11/07/2019 16:01:24

Calibration Report

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:33
User: JJY
Instrument: Semi 6

Silvex (Front Signal)
Average RF: 7.56274e+008 RF StDev: 2.52109e+007 RF %RSD: 3.33357
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 7.71372e+008x - 235660.
Goodness of fit (r^2): 0.999682



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.004	0.01	0.04	0.1	0.14
Area	3024815	7085645	30448568	77730209	106014584
RF	756203750	708564500	761214200	777302090	757247028.57 1429
Last Area Residual	-0.000226853	0.00050872	0.000221215	-0.00107432	0.00225804
Rep StDev					
Rep %RSD					
Rep 1 Area	3024815	7085645	30448568	77730209	106014584
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\004.dat	C:\Instarch\Semi6\Data\110719hrbic\005.dat	C:\Instarch\Semi6\Data\110719hrbic\006.dat	C:\Instarch\Semi6\Data\110719hrbic\007.dat	C:\Instarch\Semi6\Data\110719hrbic\008.dat
Rep 1 Sample ID	AH ICAL 1 PP 6076	AH ICAL 2 PP 6077	AH ICAL 3 PP 6078	AH ICAL 4 PP 6079	AH ICAL 5 PP 6080
Rep 1 Calib. Time	11/07/2019 15:27:46	11/07/2019 15:27:55	11/07/2019 15:28:04	11/07/2019 15:28:13	11/07/2019 15:49:03

	Level 6
Amount	0.2
Area	155422404

Calibration Report

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:33
User: JJY
Instrument: Semi 6

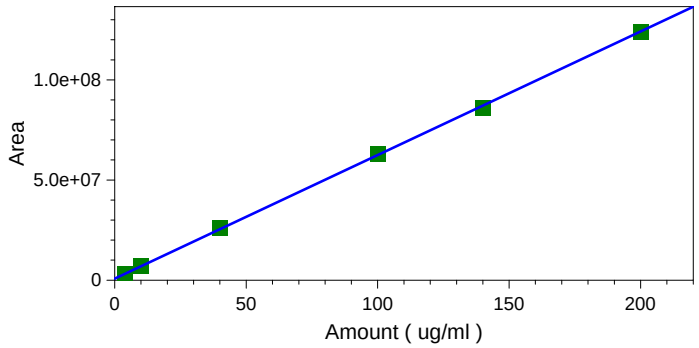
RF	777112020
Last Area	
Residual	-0.00179386
Rep StDev	
Rep %RSD	
Rep 1 Area	155422404
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\009.dat
Rep 1 Sample ID	AH ICAL 6 PP 6081
Rep 1 Calib. Time	11/07/2019 16:01:24

Calibration Report

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:39
User: JJY
Instrument: Semi 6

SURRDCAA (Back Signal)
Average RF: 670195. RF StDev: 66898.4 RF %RSD: 9.98193
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 616907.x + 815626.
Goodness of fit (r^2): 0.999716

Peak: SURRDCAA -- ESTD -- Back Signal



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	40	100	140
Area	3139267	7134004	26296170	63219583	85741940
RF	784816.75	713400.4	657404.25	632195.83	612442.42857 1429
Last Area Residual	0.233403	-0.242021	-1.30368	-1.15612	2.33539
Rep StDev					
Rep %RSD					
Rep 1 Area	3139267	7134004	26296170	63219583	85741940
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\004.dat	C:\Instarch\Semi6\Data\110719hrbic\005.dat	C:\Instarch\Semi6\Data\110719hrbic\006.dat	C:\Instarch\Semi6\Data\110719hrbic\007.dat	C:\Instarch\Semi6\Data\110719hrbic\008.dat
Rep 1 Sample ID	AH ICAL 1 PP 6076	AH ICAL 2 PP 6077	AH ICAL 3 PP 6078	AH ICAL 4 PP 6079	AH ICAL 5 PP 6080
Rep 1 Calib. Time	11/07/2019 15:27:46	11/07/2019 15:27:55	11/07/2019 15:28:04	11/07/2019 15:28:13	11/07/2019 15:49:03

	Level 6
Amount	200
Area	124181618

Calibration Report

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:39
User: JJY
Instrument: Semi 6

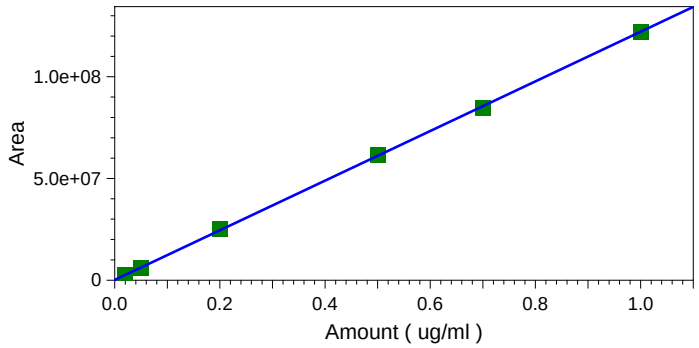
RF	620908.09
Last Area	
Residual	0.0250984
Rep StDev	
Rep %RSD	
Rep 1 Area	124181618
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\009.dat
Rep 1 Sample ID	AH ICAL 6 PP 6081
Rep 1 Calib. Time	11/07/2019 16:01:24

Calibration Report

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:40
User: JJY
Instrument: Semi 6

2,4-D (Back Signal)
Average RF: 1.23709e+008 RF StDev: 3.01556e+006 RF %RSD: 2.43764
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.22012e+008x + 126559.
Goodness of fit (r^2): 0.999896

Peak: 2,4-D -- ESTD -- Back Signal



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.02	0.05	0.2	0.5	0.7
Area	2583883	6087928	24991313	61564747	84670418
RF	129194150	121758560	124956565	123129494	120957740
Last Area Residual	-0.000140019	0.00114113	-0.00378939	-0.0035421	0.00708581
Rep StDev					
Rep %RSD					
Rep 1 Area	2583883	6087928	24991313	61564747	84670418
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\004.dat	C:\Instarch\Semi6\Data\110719hrbic\005.dat	C:\Instarch\Semi6\Data\110719hrbic\006.dat	C:\Instarch\Semi6\Data\110719hrbic\007.dat	C:\Instarch\Semi6\Data\110719hrbic\008.dat
Rep 1 Sample ID	AH ICAL 1 PP 6076	AH ICAL 2 PP 6077	AH ICAL 3 PP 6078	AH ICAL 4 PP 6079	AH ICAL 5 PP 6080
Rep 1 Calib. Time	11/07/2019 15:27:46	11/07/2019 15:27:55	11/07/2019 15:28:04	11/07/2019 15:28:13	11/07/2019 15:49:03

	Level 6
Amount	1
Area	122254572
RF	122254572

Calibration Report

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:40
User: JJY
Instrument: Semi 6

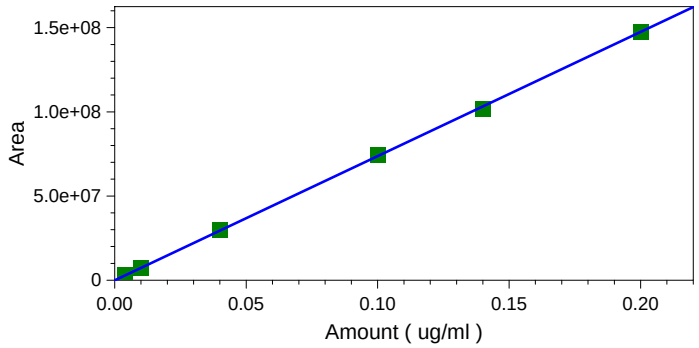
Last Area Residual	-0.000950681
Rep StDev	
Rep %RSD	
Rep 1 Area	122254572
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\009.dat
Rep 1 Sample ID	AH ICAL 6 PP 6081
Rep 1 Calib. Time	11/07/2019 16:01:24

Calibration Report

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:42
User: JJY
Instrument: Semi 6

Silvex (Back Signal)
Average RF: 7.34437e+008 RF StDev: 1.59808e+007 RF %RSD: 2.17592
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 7.37401e+008x - 49062.1
Goodness of fit (r^2): 0.999782

Peak: Silvex -- ESTD -- Back Signal



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.004	0.01	0.04	0.1	0.14
Area	2958566	7062247	29981141	74634740	101676833
RF	739641500	706224700	749528525	746347400	726263092.857143
Last Area Residual	-7.86857e-005	0.000356256	-0.00072437	-0.00127973	0.00204812
Rep StDev					
Rep %RSD					
Rep 1 Area	2958566	7062247	29981141	74634740	101676833
Rep 1 User	JJY	JJY	JJY	JJY	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\004.dat	C:\Instarch\Semi6\Data\110719hrbic\005.dat	C:\Instarch\Semi6\Data\110719hrbic\006.dat	C:\Instarch\Semi6\Data\110719hrbic\007.dat	C:\Instarch\Semi6\Data\110719hrbic\008.dat
Rep 1 Sample ID	AH ICAL 1 PP 6076	AH ICAL 2 PP 6077	AH ICAL 3 PP 6078	AH ICAL 4 PP 6079	AH ICAL 5 PP 6080
Rep 1 Calib. Time	11/07/2019 15:27:46	11/07/2019 15:27:55	11/07/2019 15:28:04	11/07/2019 15:28:13	11/07/2019 15:49:03

	Level 6
Amount	0.2

Calibration Report

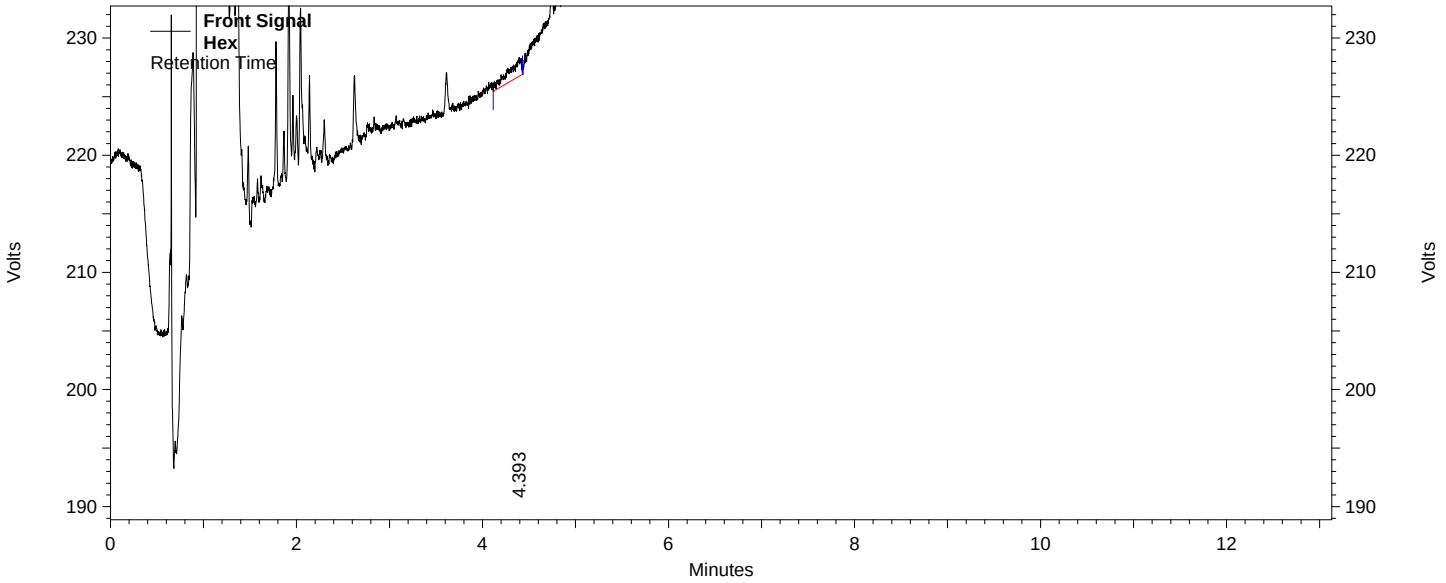
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:42
User: JJY
Instrument: Semi 6

Area	147723710
RF	738618550
Last Area	
Residual	-0.000396682
Rep StDev	
Rep %RSD	
Rep 1 Area	147723710
Rep 1 User	JJY
Rep 1 Data File	C:\Instarch\Semi6\Data\110719hrbic\009.dat
Rep 1 Sample ID	AH ICAL 6 PP 6081
Rep 1 Calib. Time	11/07/2019 16:01:24

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\003.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: Hex
Acquired: 11/07/2019 14:04:47
Printed: 11/08/2019 10:42:24

Data Summary: {Data Description}



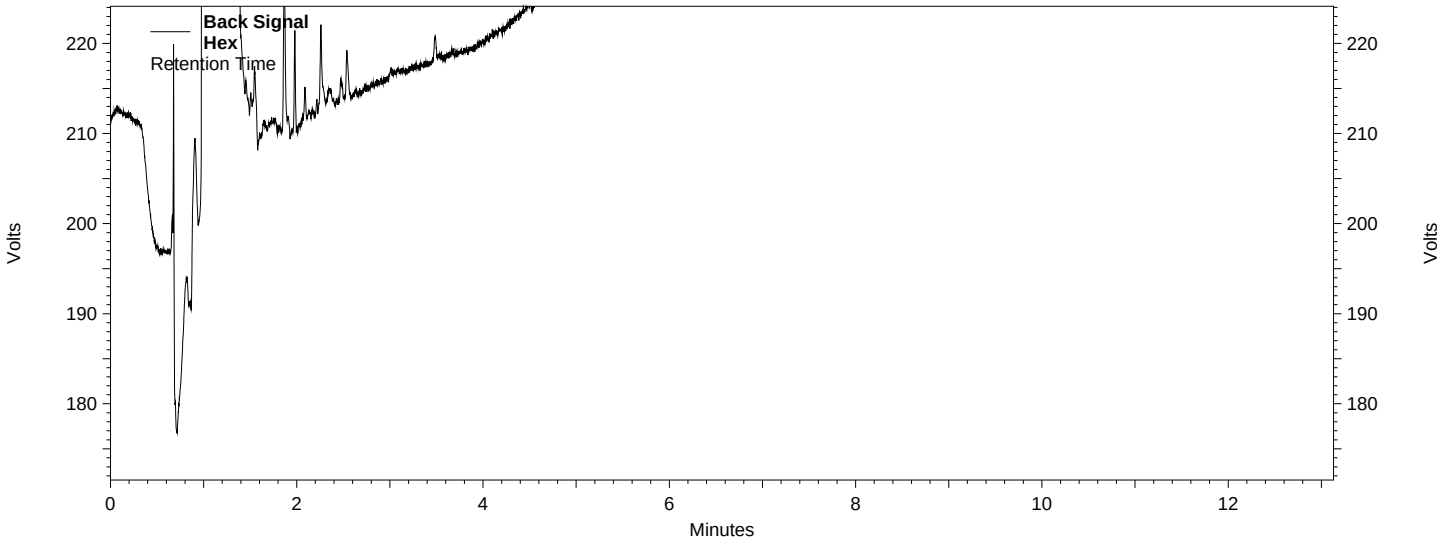
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA			0.0000 BDL
2,4-D			0.0000 BDL
Silvex			0.0000 BDL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\003.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: Hex
Acquired: 11/07/2019 14:04:47
Printed: 11/08/2019 10:42:24

Data Summary: {Data Description}



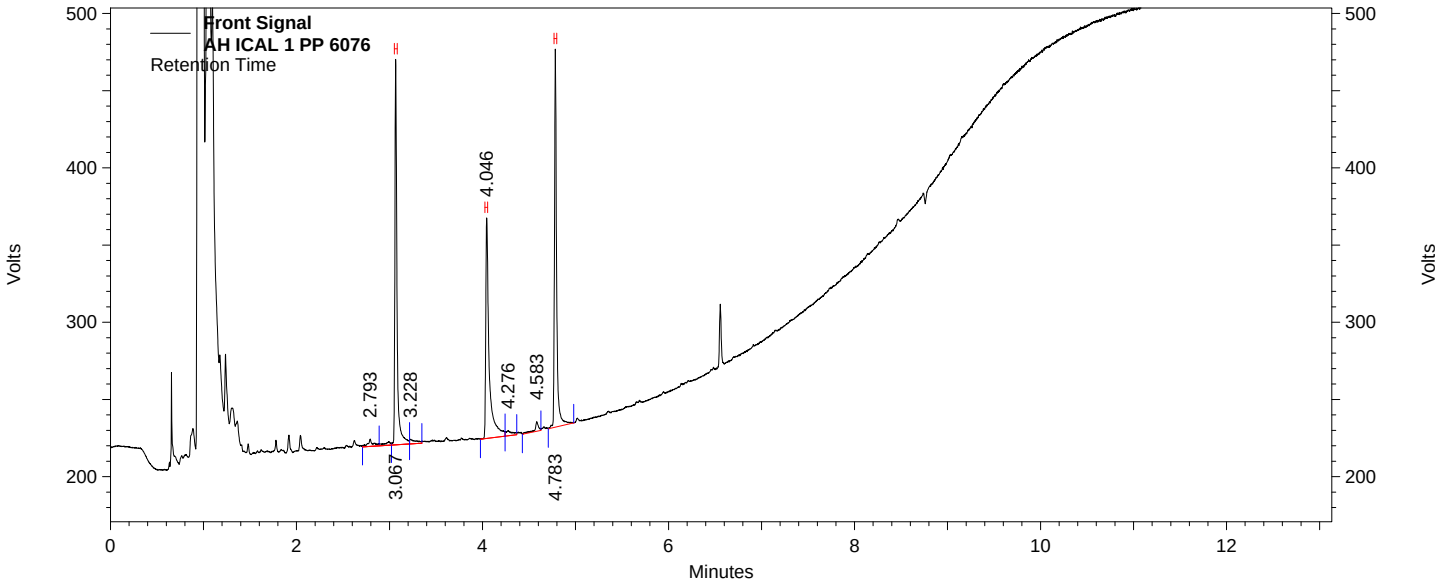
Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA			0.0000 BDL
2,4-D			0.0000 BDL
Silvex			0.0000 BDL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\004.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 1 PP 6076
Acquired: 11/07/2019 14:21:31
Printed: 11/08/2019 10:36:31

Data Summary: {Data Description}



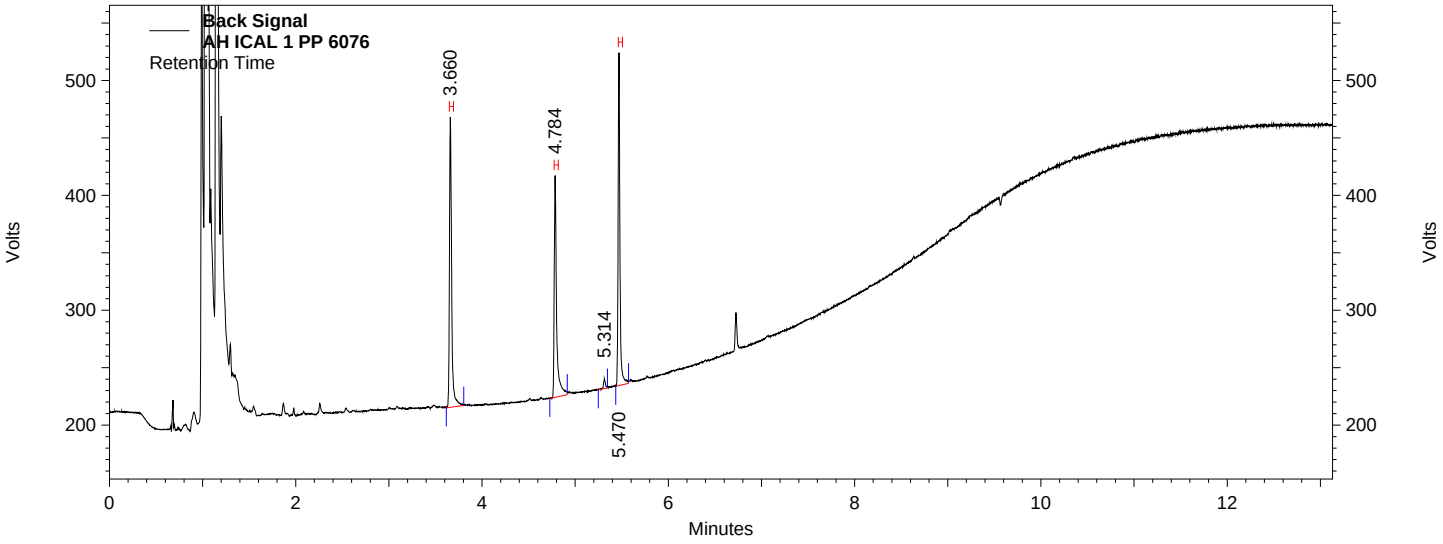
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.067	3000305	4.0000 CAL
2,4-D	4.046	2742862	0.0200 CAL
Silvex	4.783	3024815	0.0040 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\004.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 1 PP 6076
Acquired: 11/07/2019 14:21:31
Printed: 11/08/2019 10:36:31

Data Summary: {Data Description}



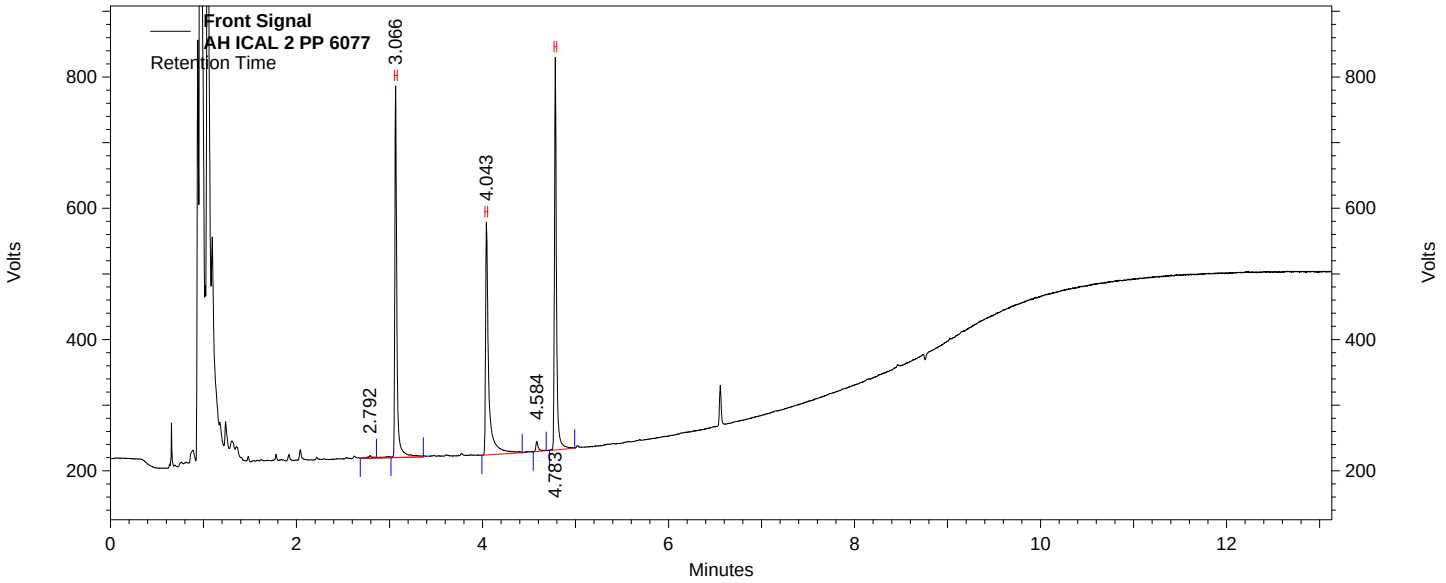
Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.660	3139267	4.0000 CAL
2,4-D	4.784	2583883	0.0200 CAL
Silvex	5.470	2958566	0.0040 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\005.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 2 PP 6077
Acquired: 11/07/2019 14:38:21
Printed: 11/08/2019 10:36:42

Data Summary: {Data Description}



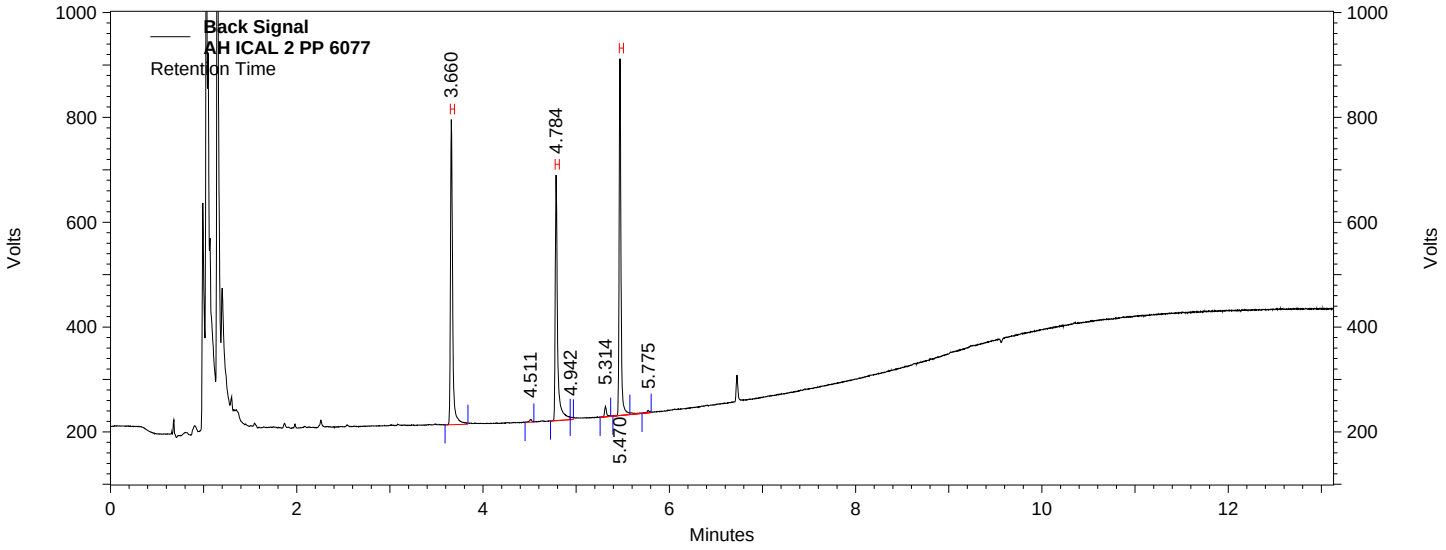
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.066	6637583	10.0000 CAL
2,4-D	4.043	6363417	0.0500 CAL
Silvex	4.783	7085645	0.0100 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\005.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 2 PP 6077
Acquired: 11/07/2019 14:38:21
Printed: 11/08/2019 10:36:42

Data Summary: {Data Description}



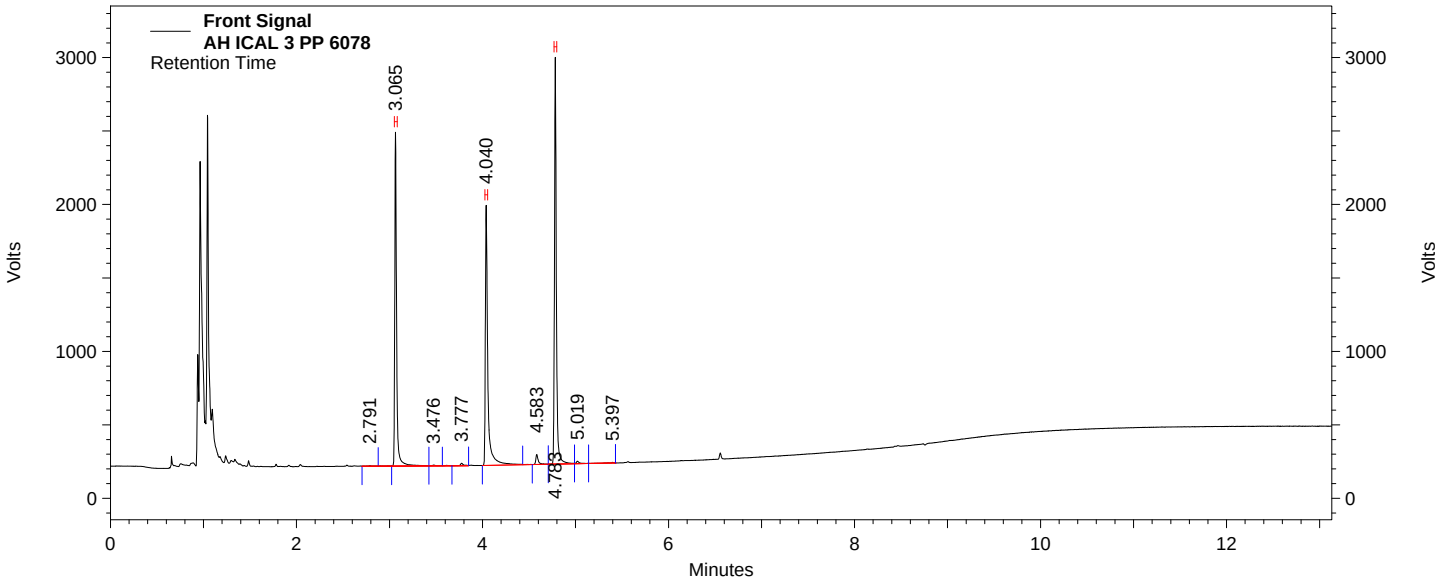
Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.660	7134004	10.0000 CAL
2,4-D	4.784	6087928	0.0500 CAL
Silvex	5.470	7062247	0.0100 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\006.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 3 PP 6078
Acquired: 11/07/2019 14:55:09
Printed: 11/08/2019 10:36:45

Data Summary: {Data Description}



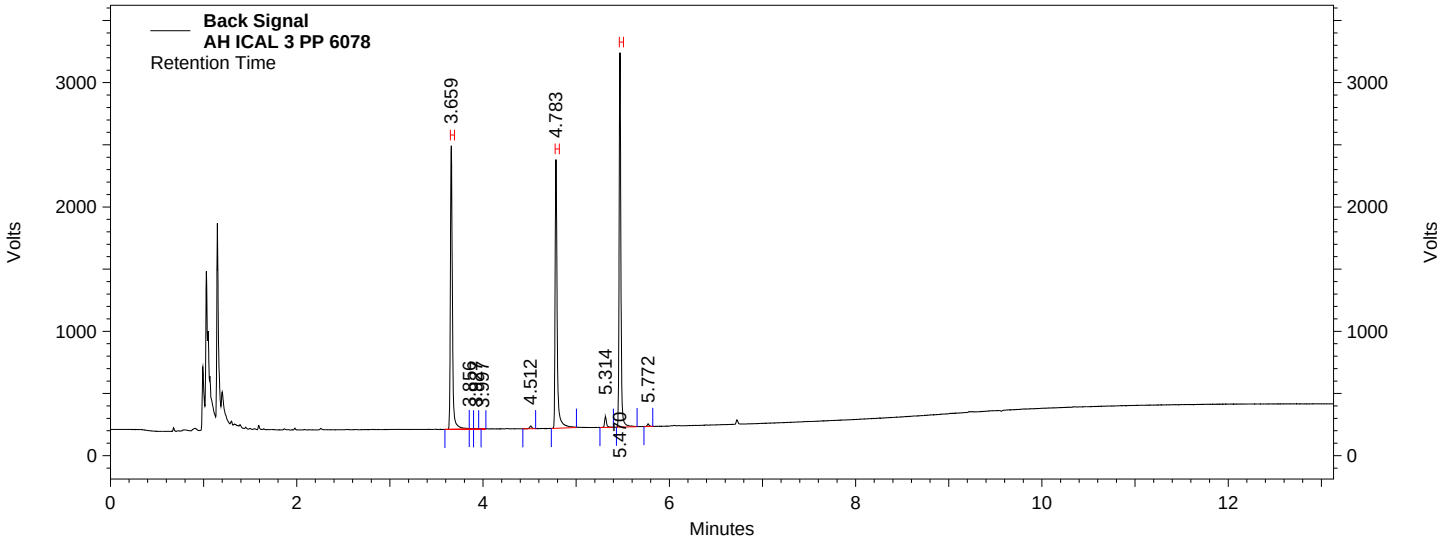
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.065	23961867	40.0000 CAL
2,4-D	4.040	25095933	0.2000 CAL
Silvex	4.783	30448568	0.0400 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\006.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 3 PP 6078
Acquired: 11/07/2019 14:55:09
Printed: 11/08/2019 10:36:45

Data Summary: {Data Description}



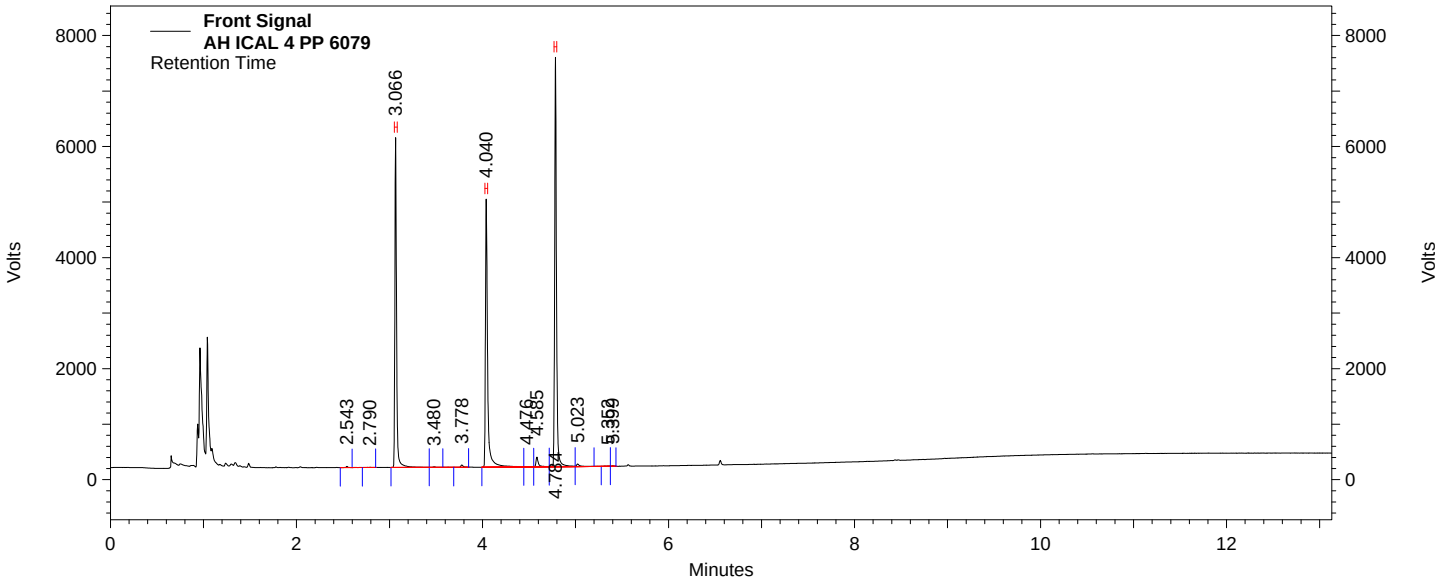
Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.659	26296170	40.0000 CAL
2,4-D	4.783	24991313	0.2000 CAL
Silvex	5.470	29981141	0.0400 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\007.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 4 PP 6079
Acquired: 11/07/2019 15:11:54
Printed: 11/08/2019 10:36:47

Data Summary: {Data Description}



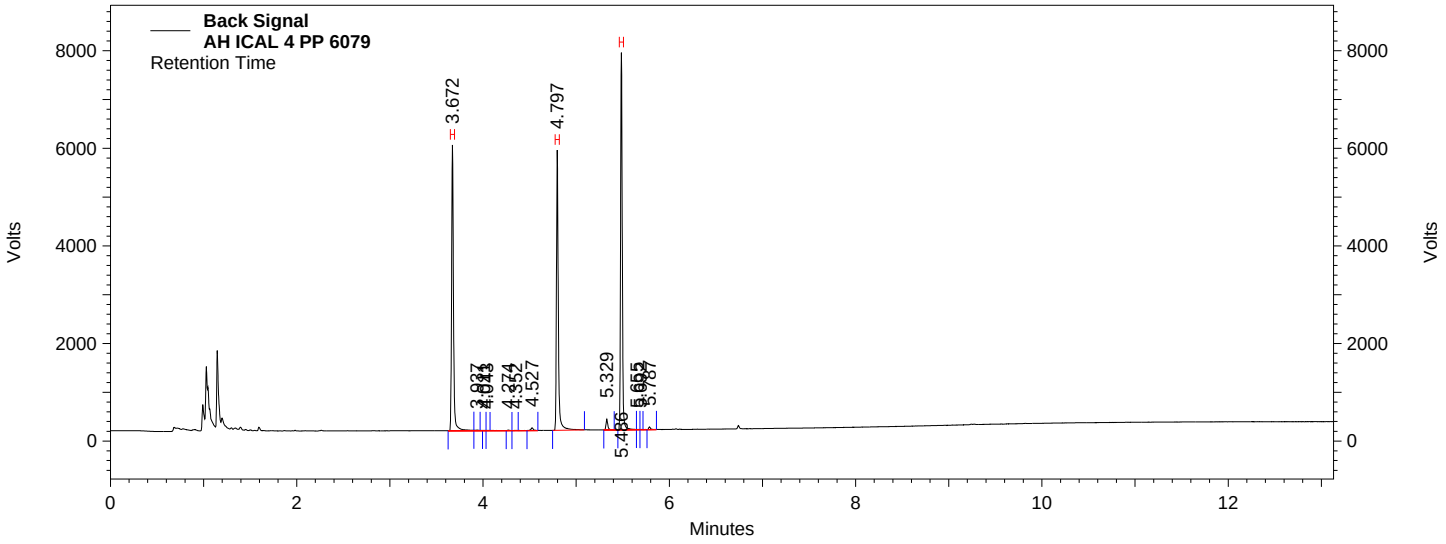
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.066	57844502	100.0000 CAL
2,4-D	4.040	60526470	0.5000 CAL
Silvex	4.784	77730209	0.1000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\007.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 4 PP 6079
Acquired: 11/07/2019 15:11:54
Printed: 11/08/2019 10:36:47

Data Summary: {Data Description}



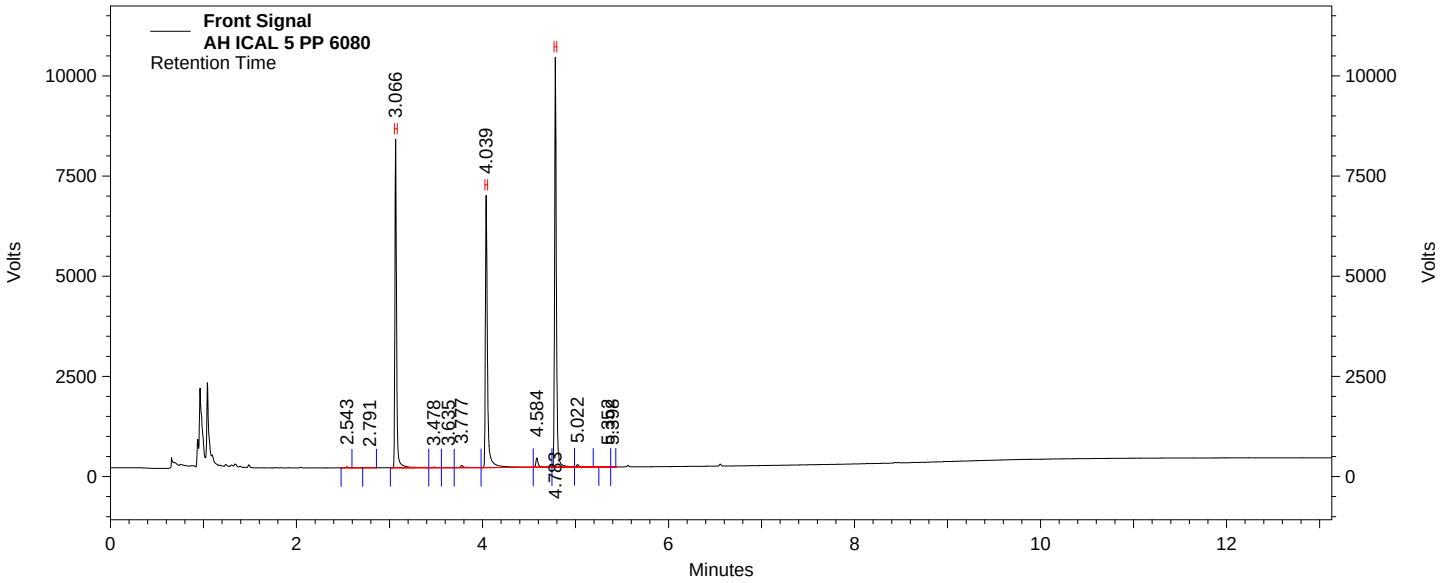
Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.672	63219583	100.0000 CAL
2,4-D	4.797	61564747	0.5000 CAL
Silvex	5.486	74634740	0.1000 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\008.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 5 PP 6080
Acquired: 11/07/2019 15:28:43
Printed: 11/08/2019 10:36:49

Data Summary: {Data Description}



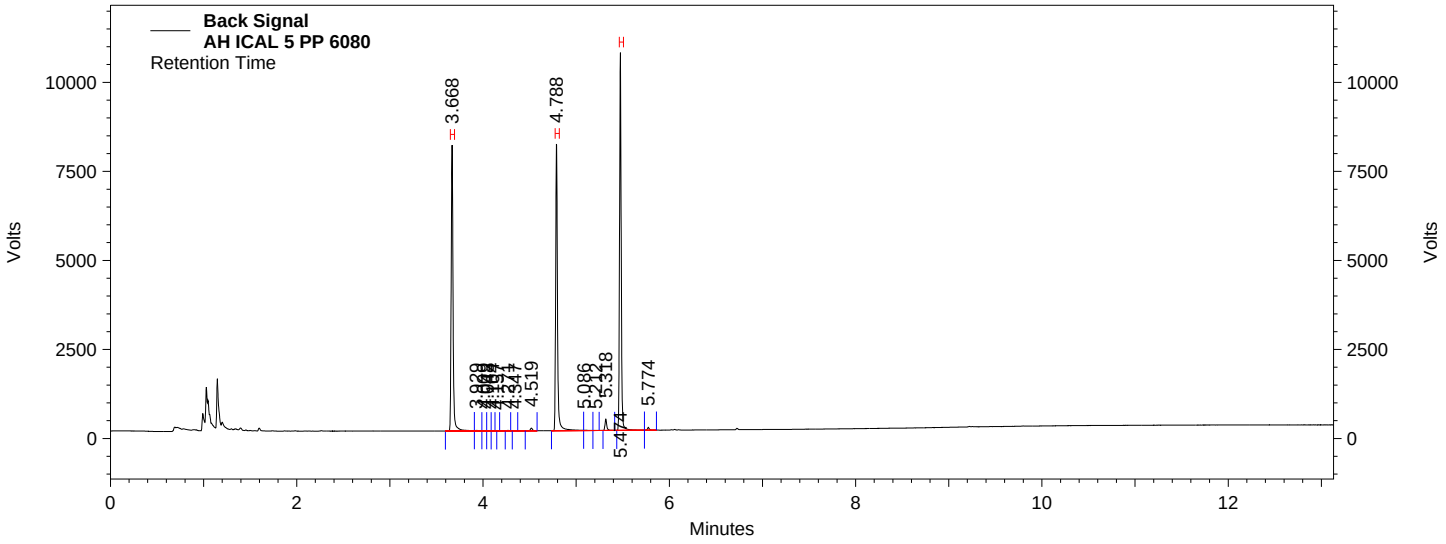
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.066	78488614	140.0000 CAL
2,4-D	4.039	82453473	0.7000 CAL
Silvex	4.783	106014584	0.1400 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\008.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 5 PP 6080
Acquired: 11/07/2019 15:28:43
Printed: 11/08/2019 10:36:49

Data Summary: {Data Description}



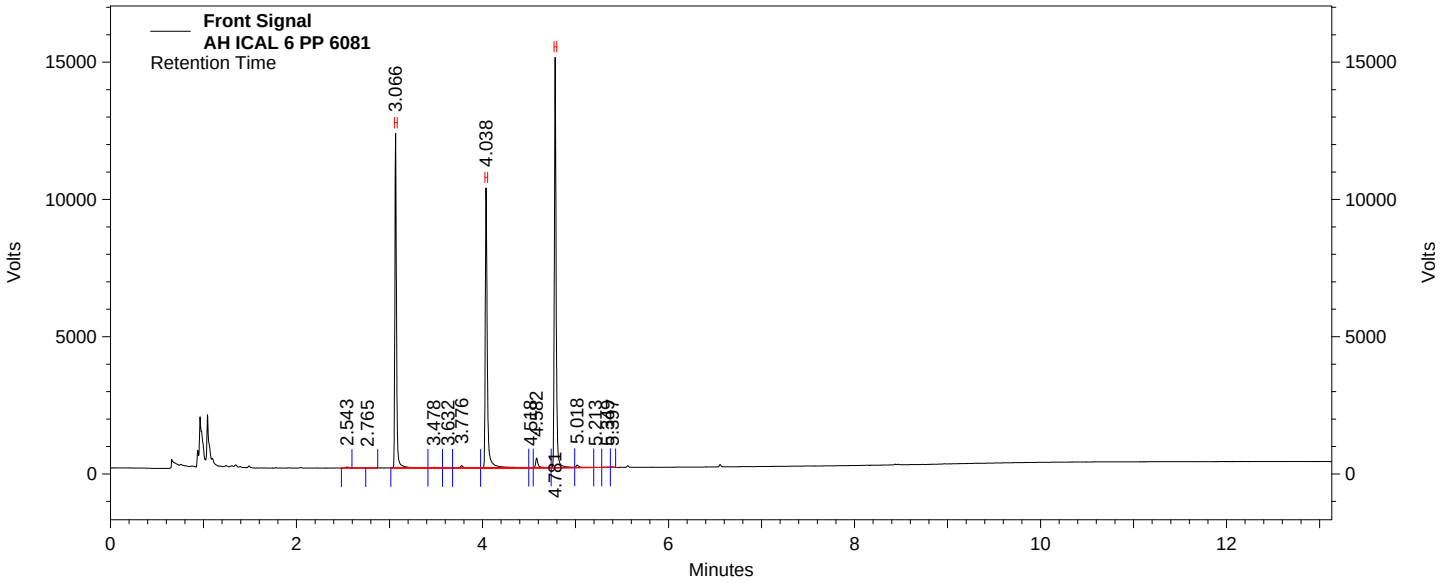
Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.668	85741940	140.0000 CAL
2,4-D	4.788	84670418	0.7000 CAL
Silvex	5.474	101676833	0.1400 CAL

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\009.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 6 PP 6081
Acquired: 11/07/2019 15:45:37
Printed: 11/08/2019 10:36:51

Data Summary: {Data Description}



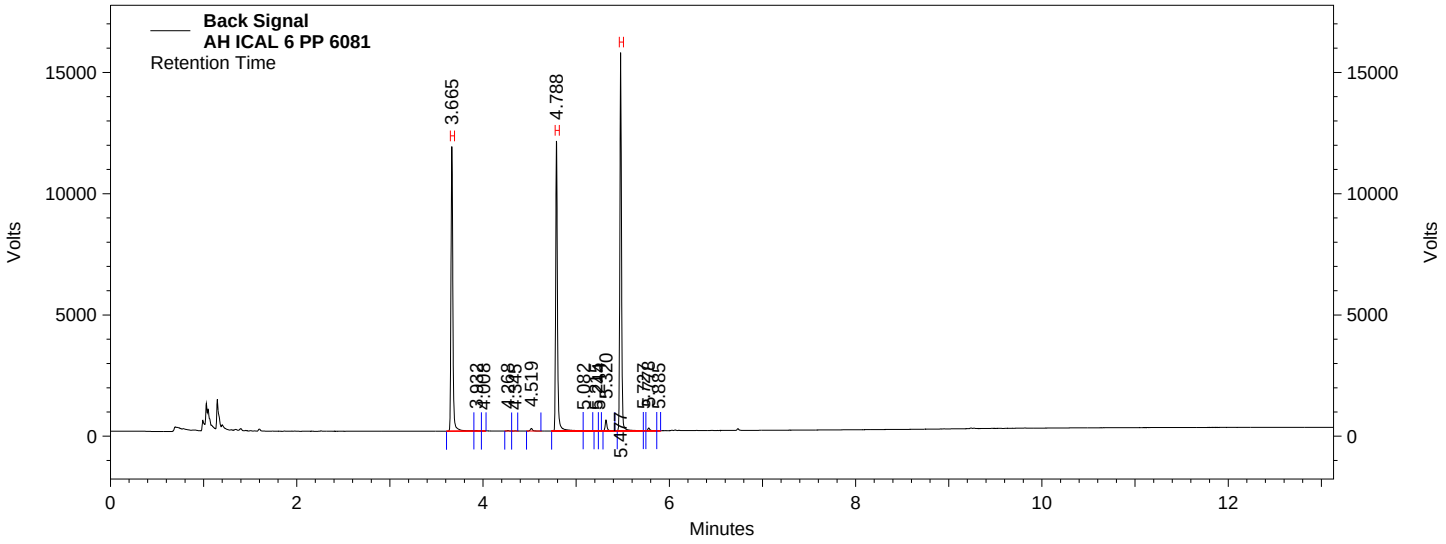
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.066	114868921	200.0000 CAL
2,4-D	4.038	119020111	1.0000 CAL
Silvex	4.781	155422404	0.2000 CAL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\009.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICAL 6 PP 6081
Acquired: 11/07/2019 15:45:37
Printed: 11/08/2019 10:36:51

Data Summary: {Data Description}



Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.665	124181618	200.0000 CAL
2,4-D	4.788	122254572	1.0000 CAL
Silvex	5.477	147723710	0.2000 CAL

QC Check Standard Report

Sequence : C:\Instarch\Semi6\Sequence\110719hrbic.seq
User : JJY
Printed : 11/08/2019 10:42:46

File	Sample ID	Acquired
C:\Instarch\Semi6\Data\110719hrbic\010.dat	AH ICV PP 6082	11/08/2019 10:42:46

Front Signal

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRDCAA	100.000	100.284	0.284	20.000	Passed
2,4-D	0.500	0.469	6.291	20.000	Passed
Silvex	0.100	0.095	5.256	20.000	Passed

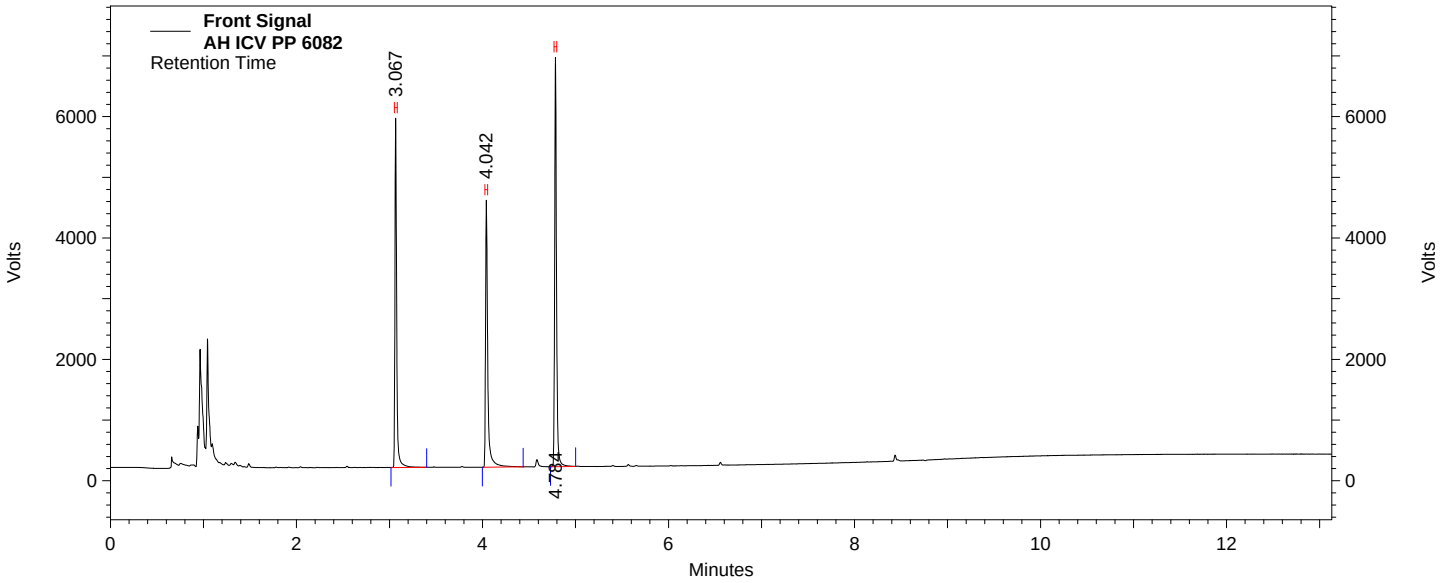
Back Signal

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRDCAA	100.000	100.791	0.791	20.000	Passed
2,4-D	0.500	0.475	4.986	20.000	Passed
Silvex	0.100	0.096	3.593	20.000	Passed

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\010.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICV PP 6082
Acquired: 11/07/2019 16:02:29
Printed: 11/08/2019 10:42:44

Data Summary: {Data Description}



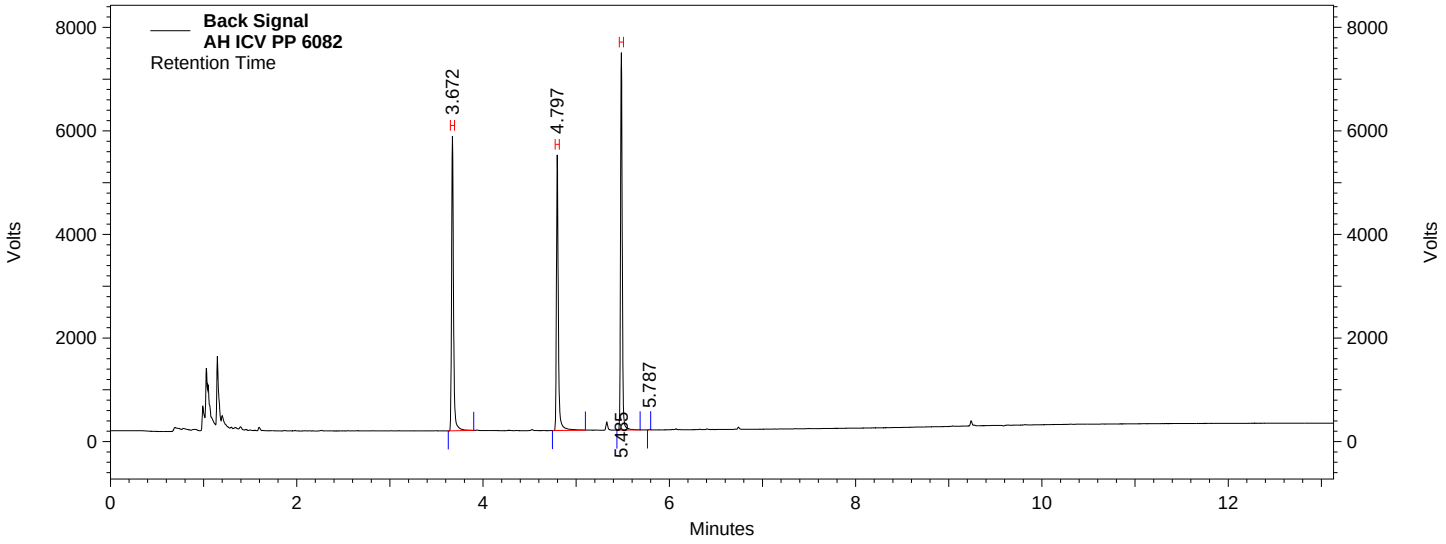
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.067	57622236	100.2843
2,4-D	4.042	56116017	0.4685
Silvex	4.784	72847105	0.0947

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\110719hrbic\010.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
User: JJY
Sample ID: AH ICV PP 6082
Acquired: 11/07/2019 16:02:29
Printed: 11/08/2019 10:42:44

Data Summary: {Data Description}



Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.672	62994050	100.7905
2,4-D	4.797	58090561	0.4751
Silvex	5.485	71041928	0.0964

PESTICIDE/HERBICIDE
CONTINUING AND ENDING STANDARDS
DOCUMENTS

Pesticide Analysis Breakdown Report

Data File: C:\Instarch\Semi1\data\112119pst\001.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
User: JJY
Instrument: Semi 1
Sample ID: EVAL PP6073
Acquired: 11/21/2019 17:03:23
Printed: 11/22/2019 10:11:39

Channel A: **DDT Breakdown 1.2 %** **Endrin Breakdown 4.1 %**

Channel B: **DDT Breakdown 1.9 %** **Endrin Breakdown 5.1 %**

Channel A

Compound	Area	Compound	Area
44DDT	51133008	ENDRIN	53606603
44DDD	615561	ENDRINALDEH	1789648
44DDE	0	ENDRINKETONE	479961

Channel B

Compound	Area	Compound	Area
44DDT	30165052	ENDRIN	35531488
44DDD	492556	ENDRINALDEH	1407483
44DDE	90084	ENDRINKETONE	503947

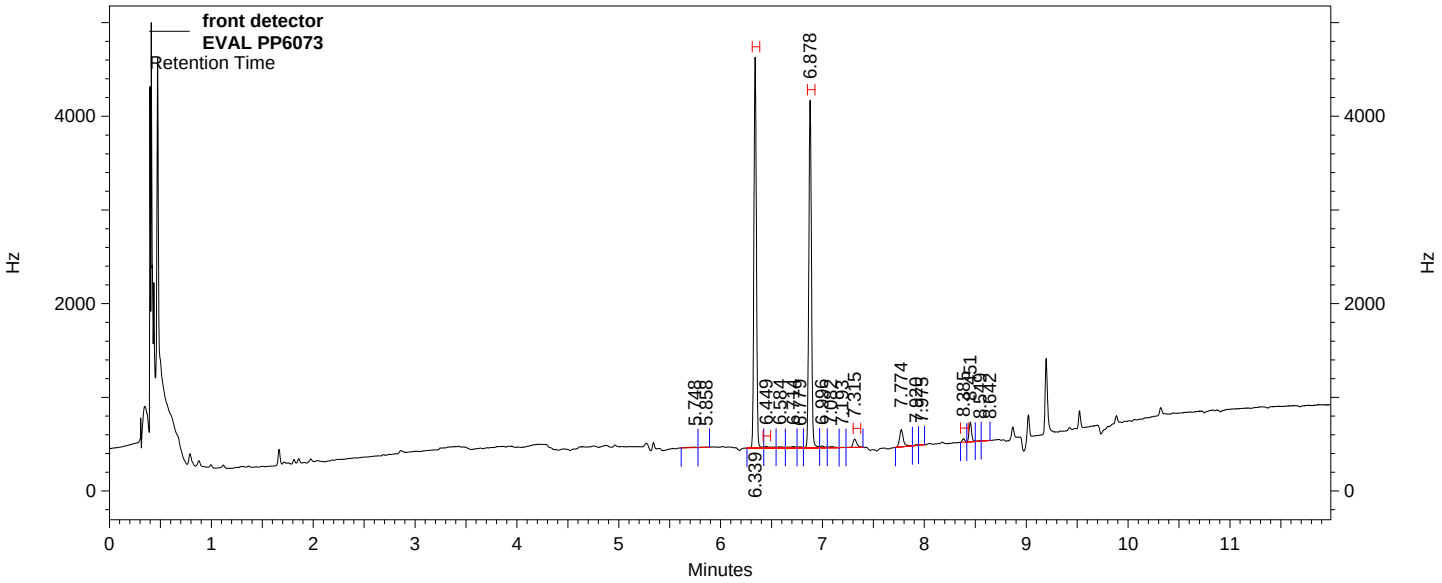
DDT Breakdown $\frac{44DDD + 44DDE}{44DDD + 44DDE + 44DDT} \times 100\ \%$

Endrin Breakdown $\frac{\text{Endrin aldehyde + Endrin ketone}}{\text{Endrin + Endrin aldehyde + Endrin ketone}} \times 1...\ \%$

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\001.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
User: JJY
Sample ID: EVAL PP6073
Acquired: 11/21/2019 17:03:23
Printed: 11/22/2019 10:11:40

Data Summary: {Data Description}



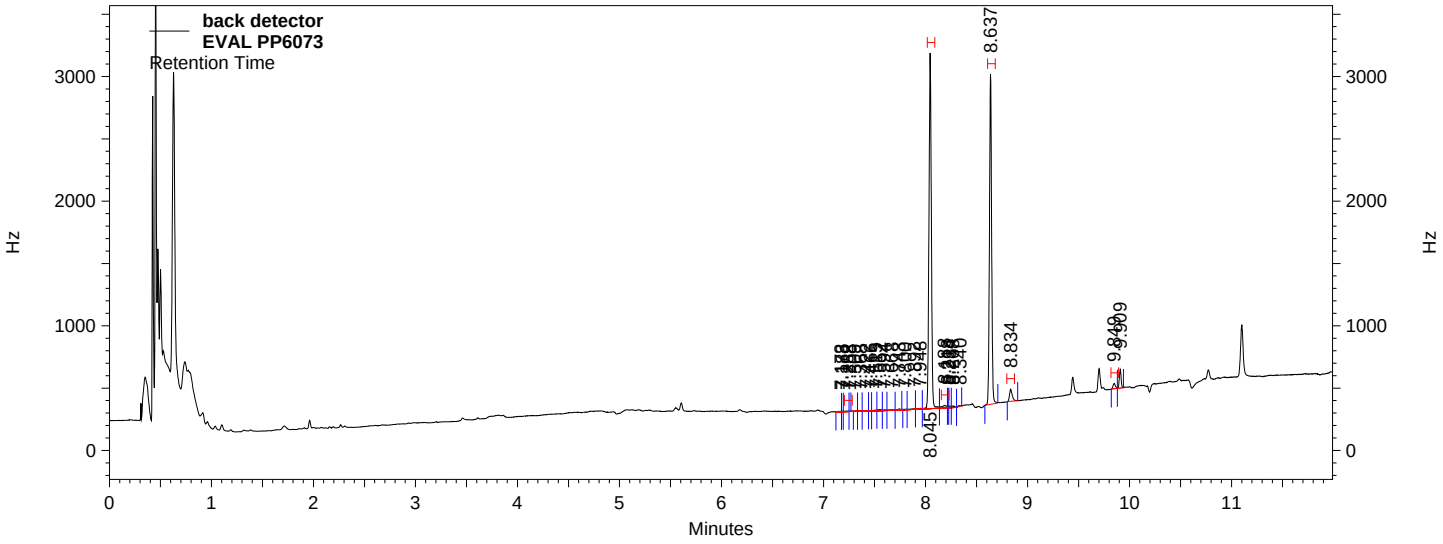
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
44DDE			0.0000 BDL
ENDRIN	6.339	53606603	0.0181
44DDD	6.449	615561	0.0005
44DDT	6.878	51133008	0.0184
ENDRINALDEH	7.315	1789648	0.0008
ENDRINKETONE	8.385	479961	0.0004

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\001.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
User: JJY
Sample ID: EVAL PP6073
Acquired: 11/21/2019 17:03:23
Printed: 11/22/2019 10:11:40

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
44DDE	7.232	90084	0.0001
ENDRIN	8.045	35531488	0.0089
44DDD	8.188	492556	0.0003
44DDT	8.637	30165052	0.0073
ENDRINALDEH	8.834	1407483	0.0002
ENDRINKETONE	9.849	503947	0.0001

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\112119pst.seq
User : JJY
Printed : 11/22/2019 10:12:25

File	Sample ID	Acquired
C:\Instarch\Semi1\data\112119pst\004.dat	PEST CCV PP6040	11/22/2019 10:12:25

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	103.177	3.177	20.000	Passed
ALPHABHC	0.040	0.041	3.679	20.000	Passed
LINDANE	0.040	0.042	4.181	20.000	Passed
BETABHC	0.040	0.040	0.907	20.000	Passed
DELTABHC	0.040	0.041	2.850	20.000	Passed
HEPTACHLOR	0.040	0.041	2.843	20.000	Passed
ALDRIN	0.040	0.042	3.796	20.000	Passed
HEPTAEPOX	0.040	0.041	1.842	20.000	Passed
GAMMACHLOR	0.040	0.041	1.513	20.000	Passed
ALPHACHLOR	0.040	0.040	0.560	20.000	Passed
44DDE	0.040	0.040	0.565	20.000	Passed
ENDOI	0.040	0.041	3.046	20.000	Passed
DIELDRIN	0.040	0.041	2.035	20.000	Passed
ENDRIN	0.040	0.046	15.781	20.000	Passed
44DDD	0.040	0.040	0.500	20.000	Passed
ENDOII	0.040	0.041	1.931	20.000	Passed
44DDT	0.040	0.043	7.281	20.000	Passed
ENDRINALDEH	0.040	0.044	8.830	20.000	Passed
METHOXYCL	0.040	0.043	7.948	20.000	Passed
ENDOSULFATE	0.040	0.041	1.276	20.000	Passed
ENDRINKETONE	0.040	0.040	0.956	20.000	Passed
SURRDCBPEST	100.000	97.582	2.418	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	99.778	0.222	20.000	Passed
ALPHABHC	0.040	0.040	1.201	20.000	Passed
LINDANE	0.040	0.039	1.877	20.000	Passed
BETABHC	0.040	0.038	4.656	20.000	Passed
DELTABHC	0.040	0.039	1.678	20.000	Passed
HEPTACHLOR	0.040	0.039	3.075	20.000	Passed
ALDRIN	0.040	0.039	1.743	20.000	Passed
HEPTAEPOX	0.040	0.039	2.382	20.000	Passed
GAMMACHLOR	0.040	0.039	1.988	20.000	Passed
ALPHACHLOR	0.040	0.039	1.404	20.000	Passed
ENDOI	0.040	0.039	2.511	20.000	Passed
44DDE	0.040	0.040	1.067	20.000	Passed
DIELDRIN	0.040	0.039	2.779	20.000	Passed
ENDRIN	0.040	0.044	11.226	20.000	Passed
44DDD	0.040	0.038	5.360	20.000	Passed
ENDOII	0.040	0.038	3.827	20.000	Passed
44DDT	0.040	0.041	2.225	20.000	Passed
ENDRINALDEH	0.040	0.042	5.999	20.000	Passed
ENDOSULFATE	0.040	0.039	3.513	20.000	Passed
METHOXYCL	0.040	0.041	1.373	20.000	Passed

QC Check Standard Report

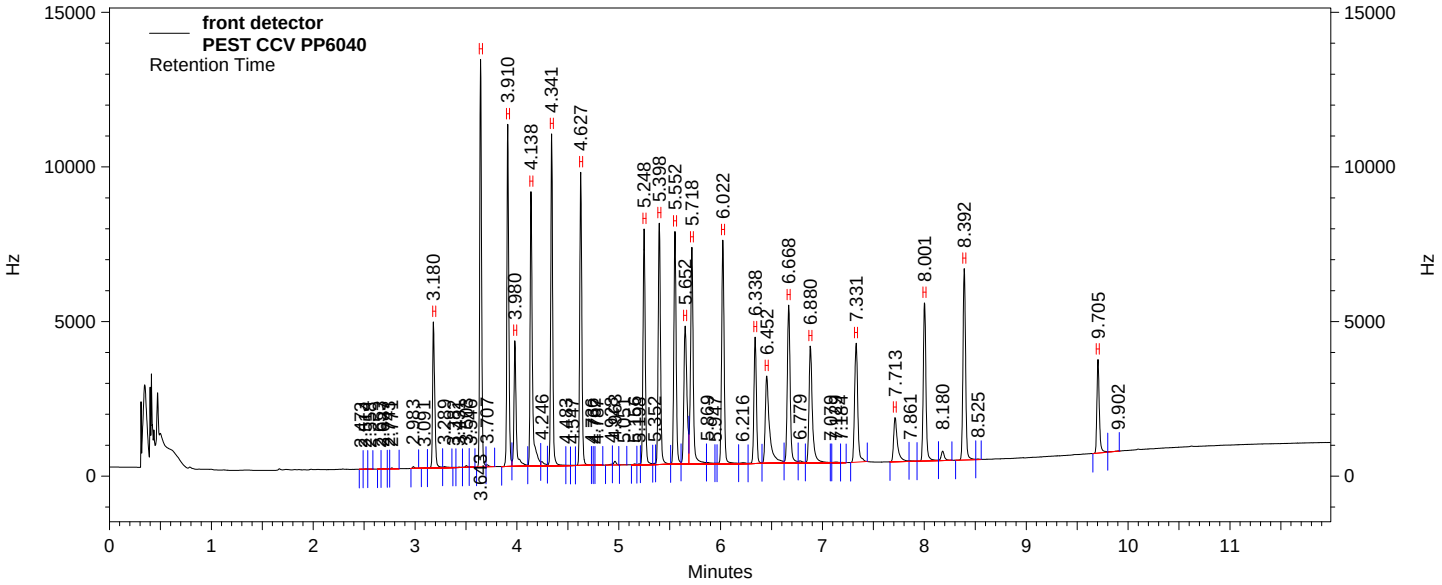
Sequence : C:\Instarch\Semi1\Sequence\112119pst.seq
User : JJY
Printed : 11/22/2019 10:12:25

ENDRINKETONE	0.040	0.037	6.279	20.000	**Passed**
SURRDCBPEST	100.000	94.764	5.236	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\004.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: PEST CCV PP6040
Acquired: 11/21/2019 17:51:59
Printed: 11/22/2019 10:12:23

Data Summary: {Data Description}



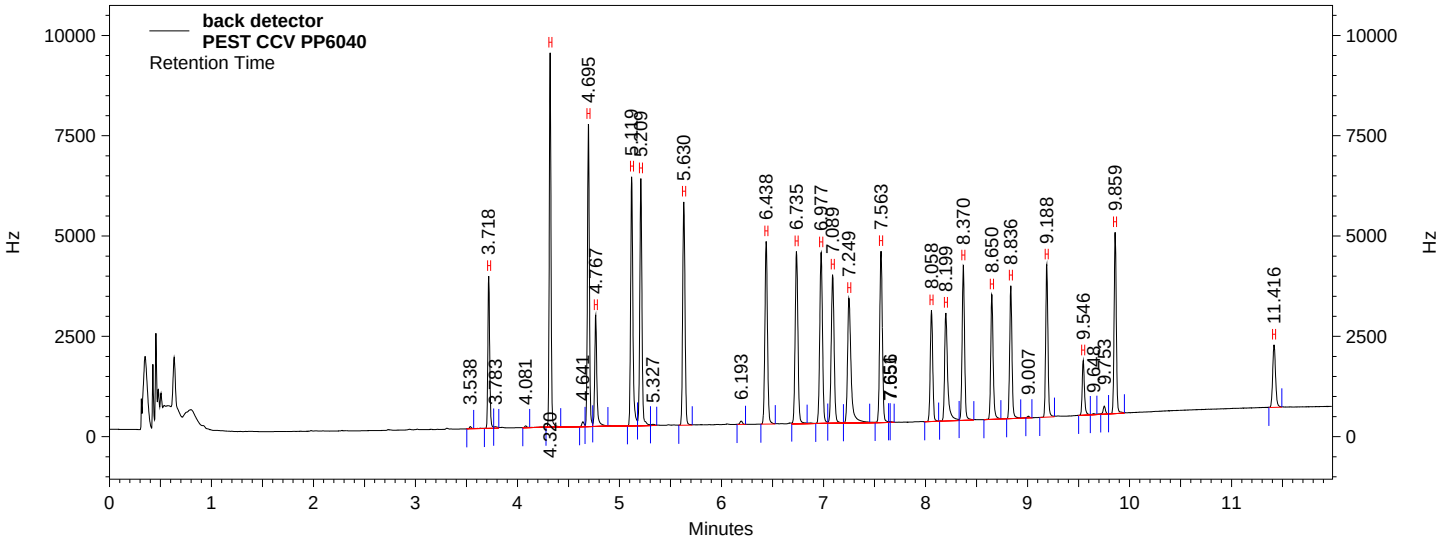
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.180	53909251	103.1774
ALPHABHC	3.643	125296964	0.0415
LINDANE	3.910	107999976	0.0417
BETABHC	3.980	48102025	0.0396
DELTABHC	4.138	104941559	0.0411
HEPTACHLOR	4.341	110761929	0.0411
ALDRIN	4.627	102035600	0.0415
HEPTAEPOX	5.248	89759992	0.0407
GAMMACHLOR	5.398	94149580	0.0406
ALPHACHLOR	5.552	91715431	0.0402
44DDE	5.652	71787648	0.0402
ENDOI	5.718	98180095	0.0412
DIELDRIN	6.022	93385475	0.0408
ENDRIN	6.338	52740865	0.0463
44DDD	6.452	63222986	0.0398
ENDOII	6.668	77457715	0.0408
44DDT	6.880	66353647	0.0429
ENDRINALDEH	7.331	63329740	0.0435
METHOXYCL	7.713	28650570	0.0432
ENDOSULFATE	8.001	72170030	0.0405
ENDRINKETONE	8.392	85597163	0.0396
SURRDCBPEST	9.705	37858616	97.5824

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\004.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: PEST CCV PP6040
Acquired: 11/21/2019 17:51:59
Printed: 11/22/2019 10:12:23

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.718	37054016	99.7780
ALPHABHC	4.320	84873994	0.0395
LINDANE	4.695	75011134	0.0392
BETABHC	4.767	31492920	0.0381
DELTABHC	5.119	72728687	0.0393
HEPTACHLOR	5.209	70108588	0.0388
ALDRIN	5.630	67855737	0.0393
HEPTAEPOX	6.438	61437508	0.0390
GAMMACHLOR	6.735	61585986	0.0392
ALPHACHLOR	6.977	60598169	0.0394
ENDOI	7.089	56256727	0.0390
44DDE	7.249	57636927	0.0396
DIELDRIN	7.563	59722008	0.0389
ENDRIN	8.058	35721059	0.0445
44DDD	8.199	43069884	0.0379
ENDOII	8.370	49246544	0.0385
44DDT	8.650	39745035	0.0409
ENDRINALDEH	8.836	40369411	0.0424
ENDOSULFATE	9.188	44615341	0.0386
METHOXYCL	9.546	15992979	0.0405
ENDRINKETONE	9.859	51667633	0.0375
SURRDCBPEST	11.416	23667091	94.7638

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\112119pst.seq
User : JJY
Printed : 11/22/2019 10:12:31

File	Sample ID	Acquired
C:\Instarch\Semi1\data\112119pst\005.dat	TC CCV PP6041	11/22/2019 10:12:31

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	62.210	3.684	20.000	Passed
Chlordane #1	0.050	0.052	4.811	20.000	Passed
Chlordane #2	0.050	0.052	3.715	20.000	Passed
Chlordane #3	0.050	0.051	2.298	20.000	Passed
Chlordane #4	0.050	0.050	0.872	20.000	Passed
Chlordane #5	0.050	0.054	8.446	20.000	Passed
Toxaphene #1	0.050	0.050	0.582	20.000	Passed
Toxaphene #2	0.050	0.052	4.859	20.000	Passed
Toxaphene #3	0.050	0.052	3.230	20.000	Passed
Toxaphene #4	0.050	0.051	1.833	20.000	Passed
Toxaphene #5	0.050	0.052	4.589	20.000	Passed
SURRDCBPEST	60.000	60.002	0.004	20.000	Passed
Chlordane	0.250	0.259	3.680	20.000	Passed
Toxaphene	0.250	0.258	3.019	20.000	Passed

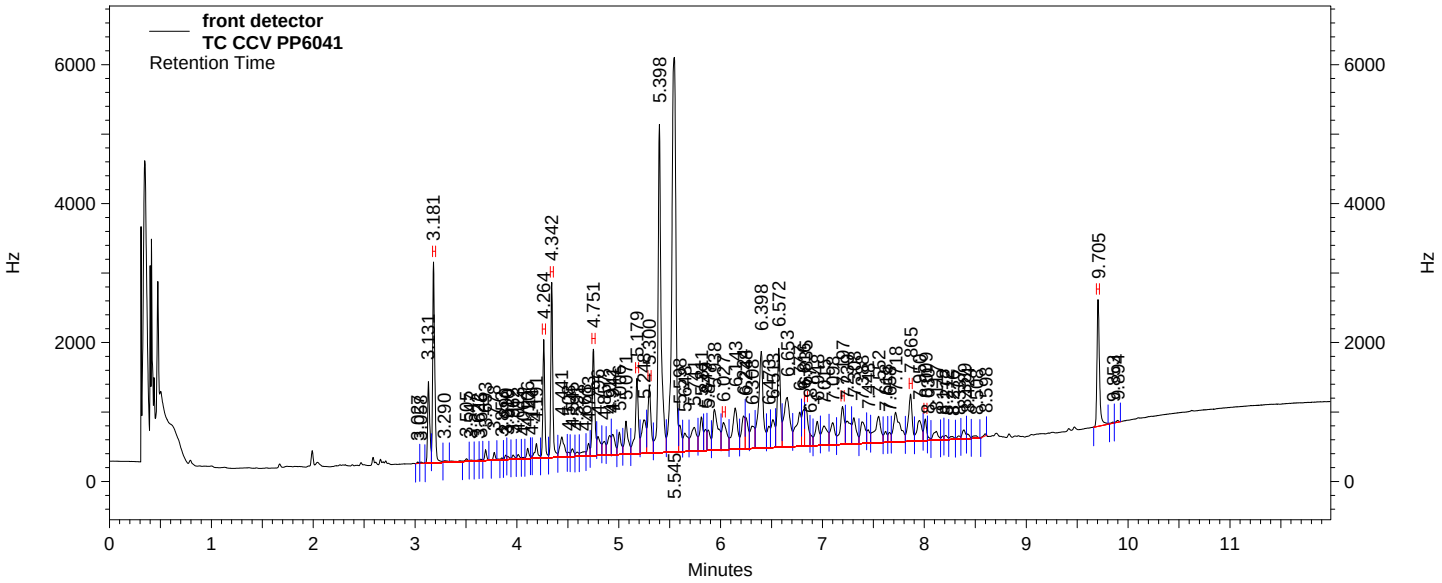
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	60.020	0.033	20.000	Passed
Chlordane #1	0.050	0.051	1.470	20.000	Passed
Chlordane #2	0.050	0.050	0.429	20.000	Passed
Chlordane #3	0.050	0.049	2.519	20.000	Passed
Chlordane #4	0.050	0.044	11.331	20.000	Passed
Chlordane #5	0.050	0.050	0.039	20.000	Passed
Toxaphene #1	0.050	0.047	6.789	20.000	Passed
Toxaphene #2	0.050	0.047	5.679	20.000	Passed
Toxaphene #3	0.050	0.047	5.408	20.000	Passed
Toxaphene #4	0.050	0.046	8.458	20.000	Passed
Toxaphene #5	0.050	0.050	0.304	20.000	Passed
SURRDCBPEST	60.000	58.795	2.008	20.000	Passed
Chlordane	0.250	0.244	2.570	20.000	Passed
Toxaphene	0.250	0.237	5.206	20.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\005.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
User: JJY
Sample ID: TC CCV PP6041
Acquired: 11/21/2019 18:08:14
Printed: 11/22/2019 10:12:29

Data Summary: {Data Description}



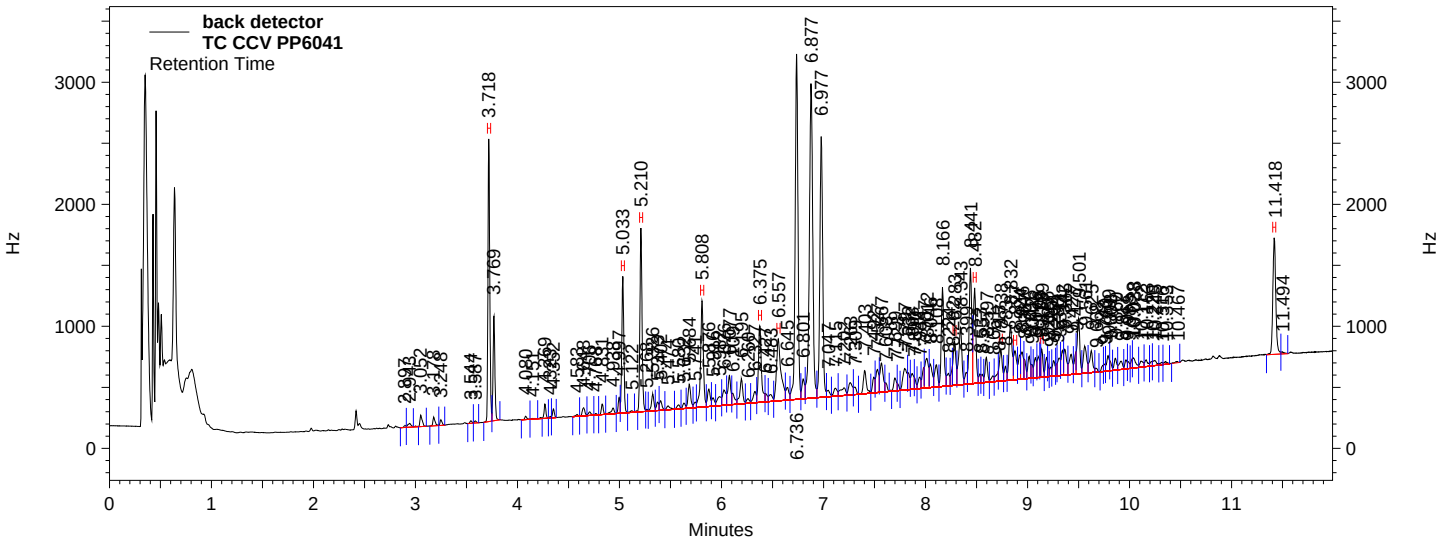
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.181	31983404	62.2103
Chlordane #1	4.264	17273815	0.0524
Chlordane #2	4.342	26419630	0.0519
Chlordane #3	4.751	20662641	0.0511
Chlordane #4	5.179	17343763	0.0496
Chlordane #5	5.300	15919995	0.0542
Toxaphene #1	6.027	10445509	0.0503
Toxaphene #2	6.835	9847859	0.0524
Toxaphene #3	7.197	11921695	0.0516
Toxaphene #4	7.865	13479951	0.0509
Toxaphene #5	8.009	4160392	0.0523
SURRDCBPEST	9.705	23554636	60.0024
Chlordane		97619844	0.2592
Toxaphene		49855406	0.2575

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\005.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
User: JJY
Sample ID: TC CCV PP6041
Acquired: 11/21/2019 18:08:14
Printed: 11/22/2019 10:12:29

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.718	22091406	60.0200
Chlordane #1	5.033	11857663	0.0507
Chlordane #2	5.210	16867220	0.0498
Chlordane #3	5.808	12751438	0.0487
Chlordane #4	6.375	9563433	0.0443
Chlordane #5	6.557	11938646	0.0500
Toxaphene #1	8.283	5274094	0.0466
Toxaphene #2	8.482	10797451	0.0472
Toxaphene #3	8.738	3784340	0.0473
Toxaphene #4	8.877	3631545	0.0458
Toxaphene #5	9.139	2389830	0.0502
SURRDCBPEST	11.418	14653888	58.7952
Chlordane		62978400	0.2436
Toxaphene		25877260	0.2370

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\112119pst.seq
User : JJY
Printed : 11/22/2019 10:13:17

File	Sample ID	Acquired
C:\Instarch\Semi1\data\112119pst\019.dat	PEST CCV PP6040	11/22/2019 10:13:17

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	104.650	4.650	20.000	Passed
ALPHABHC	0.040	0.042	5.717	20.000	Passed
LINDANE	0.040	0.042	6.157	20.000	Passed
BETABHC	0.040	0.041	2.404	20.000	Passed
DELTABHC	0.040	0.042	5.522	20.000	Passed
HEPTACHLOR	0.040	0.043	6.366	20.000	Passed
ALDRIN	0.040	0.042	6.221	20.000	Passed
HEPTAEPOX	0.040	0.042	5.280	20.000	Passed
GAMMACHLOR	0.040	0.042	5.266	20.000	Passed
ALPHACHLOR	0.040	0.042	4.700	20.000	Passed
44DDE	0.040	0.040	0.831	20.000	Passed
ENDOI	0.040	0.045	11.425	20.000	Passed
DIELDRIN	0.040	0.043	6.831	20.000	Passed
ENDRIN	0.040	0.042	4.673	20.000	Passed
44DDD	0.040	0.041	2.147	20.000	Passed
ENDOII	0.040	0.043	7.320	20.000	Passed
44DDT	0.040	0.045	12.118	20.000	Passed
ENDRINALDEH	0.040	0.047	18.294	20.000	Passed
METHOXYCL	0.040	0.043	6.694	20.000	Passed
ENDOSULFATE	0.040	0.042	6.055	20.000	Passed
ENDRINKETONE	0.040	0.043	7.488	20.000	Passed
SURRDCBPEST	100.000	106.806	6.806	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	102.049	2.049	20.000	Passed
ALPHABHC	0.040	0.041	2.812	20.000	Passed
LINDANE	0.040	0.041	2.805	20.000	Passed
BETABHC	0.040	0.041	1.280	20.000	Passed
DELTABHC	0.040	0.041	3.015	20.000	Passed
HEPTACHLOR	0.040	0.041	2.075	20.000	Passed
ALDRIN	0.040	0.041	2.600	20.000	Passed
HEPTAEPOX	0.040	0.041	2.686	20.000	Passed
GAMMACHLOR	0.040	0.041	3.424	20.000	Passed
ALPHACHLOR	0.040	0.041	3.610	20.000	Passed
ENDOI	0.040	0.041	3.038	20.000	Passed
44DDE	0.040	0.041	3.420	20.000	Passed
DIELDRIN	0.040	0.041	2.736	20.000	Passed
ENDRIN	0.040	0.041	1.579	20.000	Passed
44DDD	0.040	0.040	0.051	20.000	Passed
ENDOII	0.040	0.041	3.179	20.000	Passed
44DDT	0.040	0.043	8.296	20.000	Passed
ENDRINALDEH	0.040	0.048	18.820	20.000	Passed
ENDOSULFATE	0.040	0.041	2.872	20.000	Passed
METHOXYCL	0.040	0.041	1.969	20.000	Passed

QC Check Standard Report

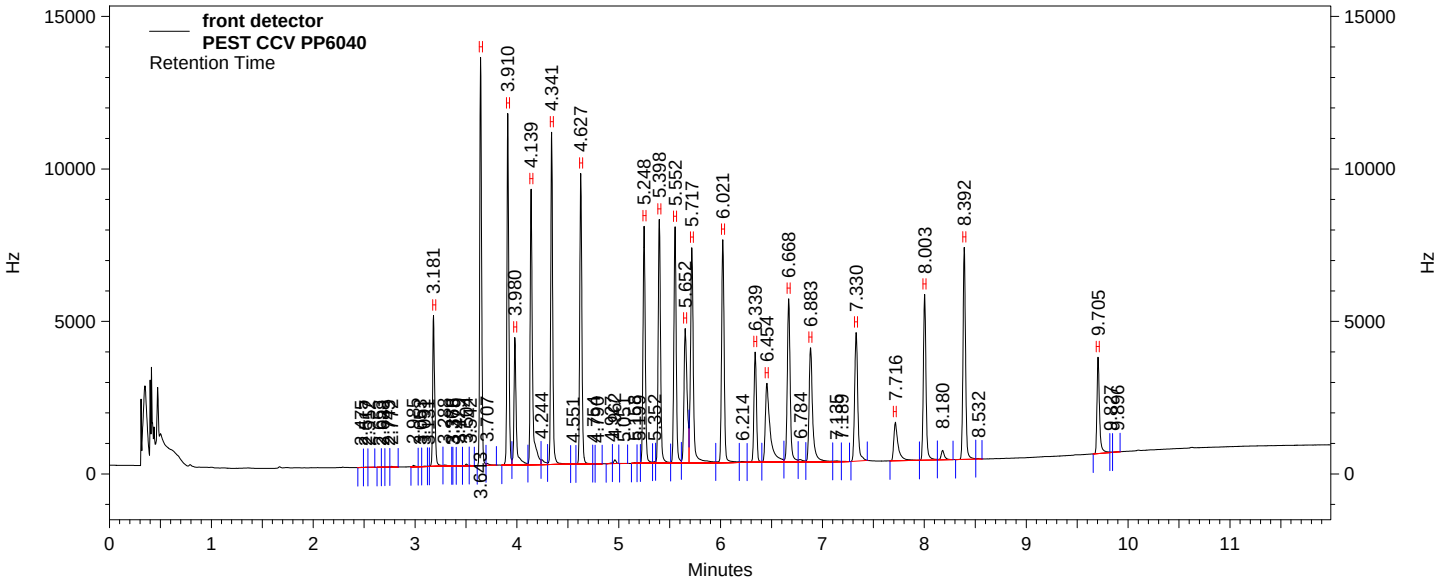
Sequence : C:\Instarch\Semi1\Sequence\112119pst.seq
User : JJY
Printed : 11/22/2019 10:13:17

ENDRINKETONE	0.040	0.042	4.543	20.000	**Passed**
SURRDCBPEST	100.000	104.216	4.216	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\019.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: PEST CCV PP6040
Acquired: 11/21/2019 21:56:32
Printed: 11/22/2019 10:13:15

Data Summary: {Data Description}



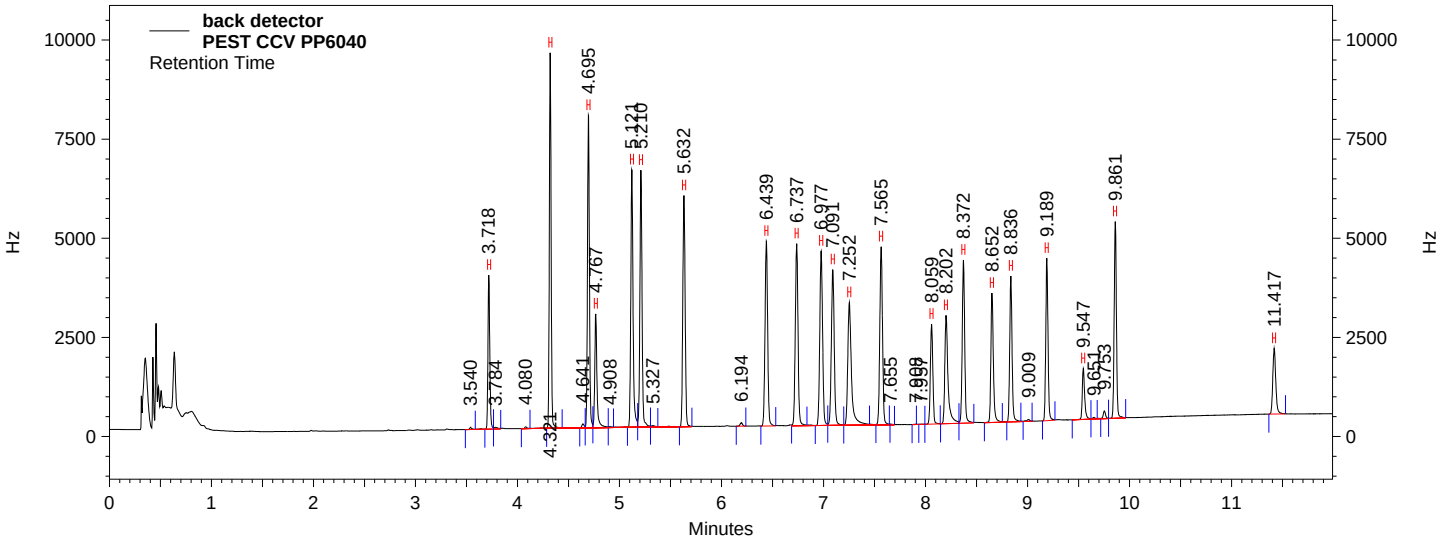
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.181	54689333	104.6499
ALPHABHC	3.643	127887682	0.0423
LINDANE	3.910	110144565	0.0425
BETABHC	3.980	49669949	0.0410
DELTABHC	4.139	107854040	0.0422
HEPTACHLOR	4.341	114518279	0.0425
ALDRIN	4.627	104487167	0.0425
HEPTAEPOX	5.248	92779061	0.0421
GAMMACHLOR	5.398	97683432	0.0421
ALPHACHLOR	5.552	95525595	0.0419
44DDE	5.652	72002188	0.0403
ENDOI	5.717	105798544	0.0446
DIELDRIN	6.021	97867267	0.0427
ENDRIN	6.339	47293431	0.0419
44DDD	6.454	65043082	0.0409
ENDOII	6.668	81591930	0.0429
44DDT	6.883	69808069	0.0448
ENDRINALDEH	7.330	69090275	0.0473
METHOXYCL	7.716	28277094	0.0427
ENDOSULFATE	8.003	75630474	0.0424
ENDRINKETONE	8.392	92949645	0.0430
SURRDCBPEST	9.705	41392015	106.8064

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\019.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: PEST CCV PP6040
Acquired: 11/21/2019 21:56:32
Printed: 11/22/2019 10:13:15

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.718	37883842	102.0488
ALPHABHC	4.321	88361524	0.0411
LINDANE	4.695	78608223	0.0411
BETABHC	4.767	33387122	0.0405
DELTABHC	5.121	76300660	0.0412
HEPTACHLOR	5.210	73725778	0.0408
ALDRIN	5.632	70814199	0.0410
HEPTAEPOX	6.439	64529838	0.0411
GAMMACHLOR	6.737	64991758	0.0414
ALPHACHLOR	6.977	63665570	0.0414
ENDOI	7.091	59399268	0.0412
44DDE	7.252	60300885	0.0414
DIELDRIN	7.565	63105348	0.0411
ENDRIN	8.059	32537906	0.0406
44DDD	8.202	45567688	0.0400
ENDOII	8.372	52785223	0.0413
44DDT	8.652	42312227	0.0433
ENDRINALDEH	8.836	45335755	0.0475
ENDOSULFATE	9.189	47566439	0.0411
METHOXYCL	9.547	16096386	0.0408
ENDRINKETONE	9.861	57618349	0.0418
SURRDCBPEST	11.417	26010516	104.2157

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\112119pst.seq
User : JJY
Printed : 11/22/2019 10:13:23

File	Sample ID	Acquired
C:\Instarch\Semi1\data\112119pst\020.dat	TC CCV PP6041	11/22/2019 10:13:23

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	62.564	4.273	20.000	Passed
Chlordane #1	0.050	0.053	5.489	20.000	Passed
Chlordane #2	0.050	0.053	5.028	20.000	Passed
Chlordane #3	0.050	0.052	4.081	20.000	Passed
Chlordane #4	0.050	0.051	2.832	20.000	Passed
Chlordane #5	0.050	0.056	11.827	20.000	Passed
Toxaphene #1	0.050	0.056	12.306	20.000	Passed
Toxaphene #2	0.050	0.056	11.930	20.000	Passed
Toxaphene #3	0.050	0.056	11.804	20.000	Passed
Toxaphene #4	0.050	0.056	11.041	20.000	Passed
Toxaphene #5	0.050	0.059	17.934	20.000	Passed
SURRDCBPEST	60.000	65.653	9.422	20.000	Passed
Chlordane	0.250	0.265	5.851	20.000	Passed
Toxaphene	0.250	0.283	13.003	20.000	Passed

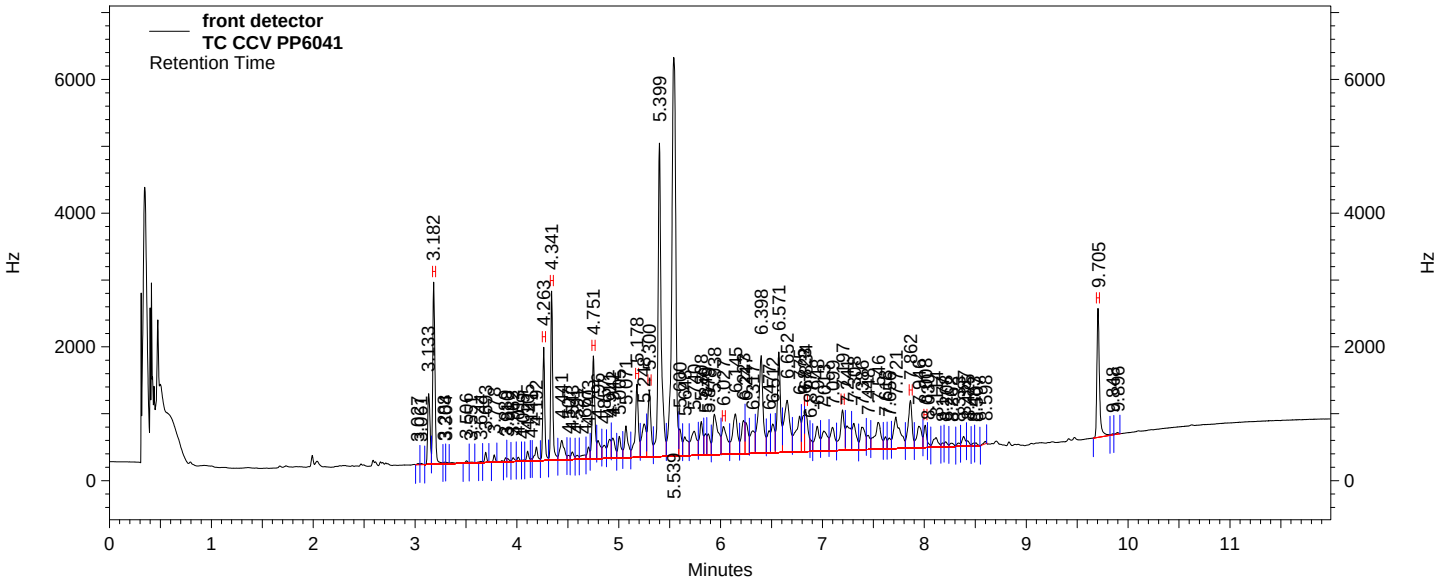
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	61.248	2.081	20.000	Passed
Chlordane #1	0.050	0.052	3.600	20.000	Passed
Chlordane #2	0.050	0.051	2.534	20.000	Passed
Chlordane #3	0.050	0.051	2.406	20.000	Passed
Chlordane #4	0.050	0.047	6.502	20.000	Passed
Chlordane #5	0.050	0.053	6.880	20.000	Passed
Toxaphene #1	0.050	0.052	4.791	20.000	Passed
Toxaphene #2	0.050	0.055	9.285	20.000	Passed
Toxaphene #3	0.050	0.056	12.085	20.000	Passed
Toxaphene #4	0.050	0.057	14.057	20.000	Passed
Toxaphene #5	0.050	0.058	15.375	20.000	Passed
SURRDCBPEST	60.000	63.979	6.631	20.000	Passed
Chlordane	0.250	0.254	1.784	20.000	Passed
Toxaphene	0.250	0.278	11.119	20.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\020.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
User: JJY
Sample ID: TC CCV PP6041
Acquired: 11/21/2019 22:12:45
Printed: 11/22/2019 10:13:21

Data Summary: {Data Description}



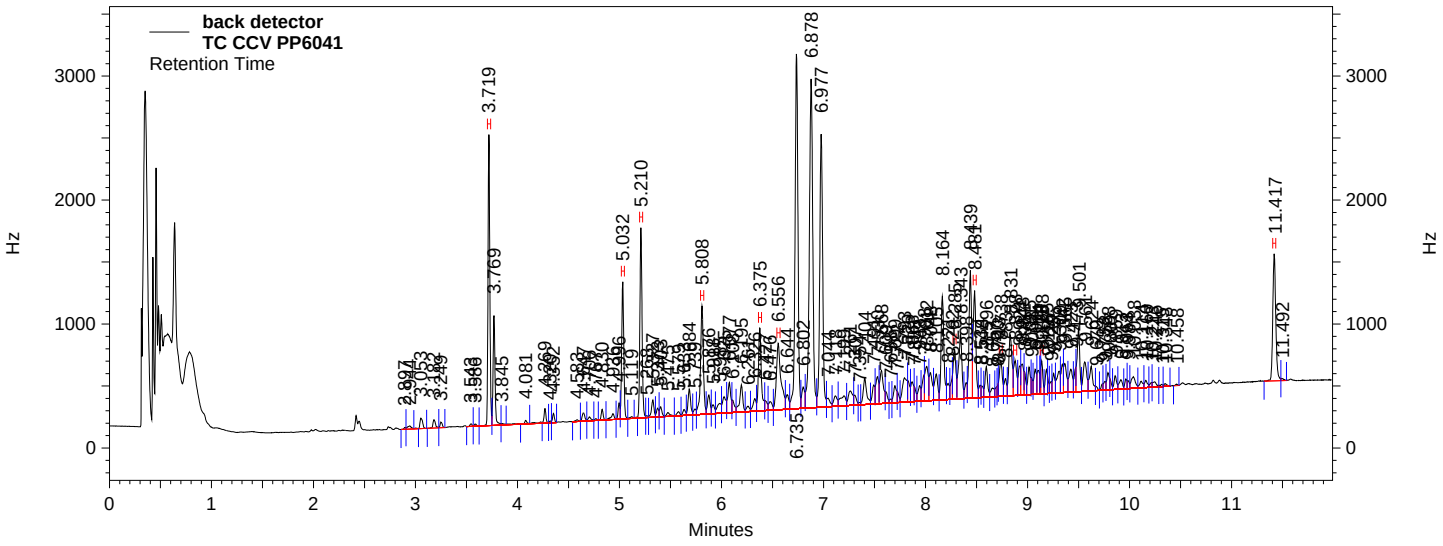
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.182	32166352	62.5639
Chlordane #1	4.263	17385249	0.0527
Chlordane #2	4.341	26756067	0.0525
Chlordane #3	4.751	21018212	0.0520
Chlordane #4	5.178	17990766	0.0514
Chlordane #5	5.300	16426821	0.0559
Toxaphene #1	6.027	11680397	0.0562
Toxaphene #2	6.834	10531276	0.0560
Toxaphene #3	7.197	12958225	0.0559
Toxaphene #4	7.862	14742154	0.0555
Toxaphene #5	8.008	4713311	0.0590
SURRDCBPEST	9.705	25735593	65.6534
Chlordane		99577115	0.2646
Toxaphene		54625363	0.2825

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\020.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
User: JJY
Sample ID: TC CCV PP6041
Acquired: 11/21/2019 22:12:45
Printed: 11/22/2019 10:13:21

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.719	22538865	61.2484
Chlordane #1	5.032	12104534	0.0518
Chlordane #2	5.210	17363864	0.0513
Chlordane #3	5.808	13379338	0.0512
Chlordane #4	6.375	10080919	0.0467
Chlordane #5	6.556	12769399	0.0534
Toxaphene #1	8.285	5950450	0.0524
Toxaphene #2	8.481	12509792	0.0546
Toxaphene #3	8.738	4511837	0.0560
Toxaphene #4	8.878	4557784	0.0570
Toxaphene #5	9.138	2763995	0.0577
SURRDCBPEST	11.417	15918223	63.9787
Chlordane		65698054	0.2545
Toxaphene		30293858	0.2778

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\112119pst.seq
User : JJY
Printed : 11/22/2019 10:13:37

File	Sample ID	Acquired
C:\Instarch\Semi1\data\112119pst\024.dat	PEST CCV PP6040	11/22/2019 10:13:37

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	103.089	3.089	20.000	Passed
ALPHABHC	0.040	0.042	4.155	20.000	Passed
LINDANE	0.040	0.041	2.694	20.000	Passed
BETABHC	0.040	0.040	0.192	20.000	Passed
DELTABHC	0.040	0.041	3.453	20.000	Passed
HEPTACHLOR	0.040	0.042	3.858	20.000	Passed
ALDRIN	0.040	0.042	4.029	20.000	Passed
HEPTAEPOX	0.040	0.041	2.804	20.000	Passed
GAMMACHLOR	0.040	0.042	3.831	20.000	Passed
ALPHACHLOR	0.040	0.041	2.572	20.000	Passed
44DDE	0.040	0.040	1.163	20.000	Passed
ENDOI	0.040	0.043	7.148	20.000	Passed
DIELDRIN	0.040	0.042	4.458	20.000	Passed
ENDRIN	0.040	0.040	0.205	20.000	Passed
44DDD	0.040	0.040	0.162	20.000	Passed
ENDOII	0.040	0.042	4.917	20.000	Passed
44DDT	0.040	0.044	9.687	20.000	Passed
ENDRINALDEH	0.040	0.047	16.809	20.000	Passed
METHOXYCL	0.040	0.042	5.001	20.000	Passed
ENDOSULFATE	0.040	0.042	4.529	20.000	Passed
ENDRINKETONE	0.040	0.042	6.032	20.000	Passed
SURRDCBPEST	100.000	105.739	5.739	20.000	Passed

back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	100.000	100.645	0.645	20.000	Passed
ALPHABHC	0.040	0.040	0.958	20.000	Passed
LINDANE	0.040	0.040	1.041	20.000	Passed
BETABHC	0.040	0.040	0.717	20.000	Passed
DELTABHC	0.040	0.040	0.947	20.000	Passed
HEPTACHLOR	0.040	0.040	0.076	20.000	Passed
ALDRIN	0.040	0.040	0.821	20.000	Passed
HEPTAEPOX	0.040	0.040	0.556	20.000	Passed
GAMMACHLOR	0.040	0.040	1.159	20.000	Passed
ALPHACHLOR	0.040	0.041	1.346	20.000	Passed
ENDOI	0.040	0.040	0.820	20.000	Passed
44DDE	0.040	0.041	1.364	20.000	Passed
DIELDRIN	0.040	0.040	0.722	20.000	Passed
ENDRIN	0.040	0.039	2.333	20.000	Passed
44DDD	0.040	0.039	1.597	20.000	Passed
ENDOII	0.040	0.040	1.215	20.000	Passed
44DDT	0.040	0.043	6.530	20.000	Passed
ENDRINALDEH	0.040	0.047	17.510	20.000	Passed
ENDOSULFATE	0.040	0.041	1.700	20.000	Passed
METHOXYCL	0.040	0.041	2.556	20.000	Passed

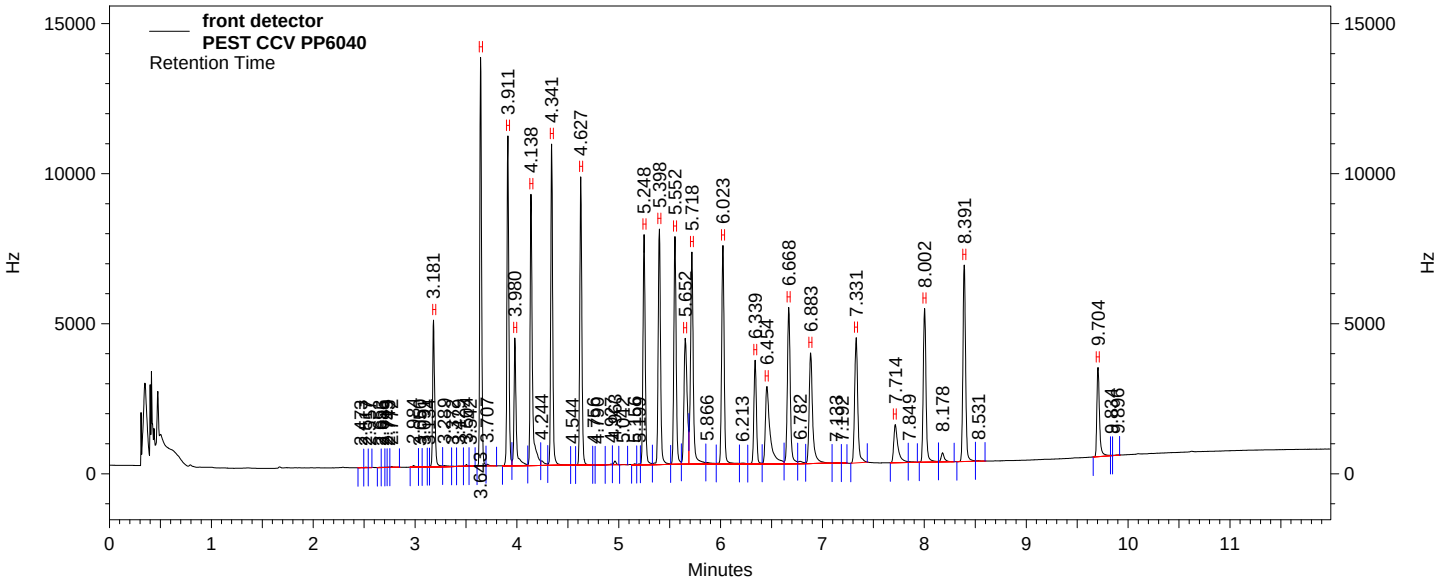
Sequence : C:\Instarch\Semi1\Sequence\112119pst.seq
User : JJY
Printed : 11/22/2019 10:13:37

ENDRINKETONE	0.040	0.041	3.295	20.000	**Passed**
SURRDCBPEST	100.000	103.274	3.274	20.000	**Passed**

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\024.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: PEST CCV PP6040
Acquired: 11/21/2019 23:18:02
Printed: 11/22/2019 10:13:35

Data Summary: {Data Description}



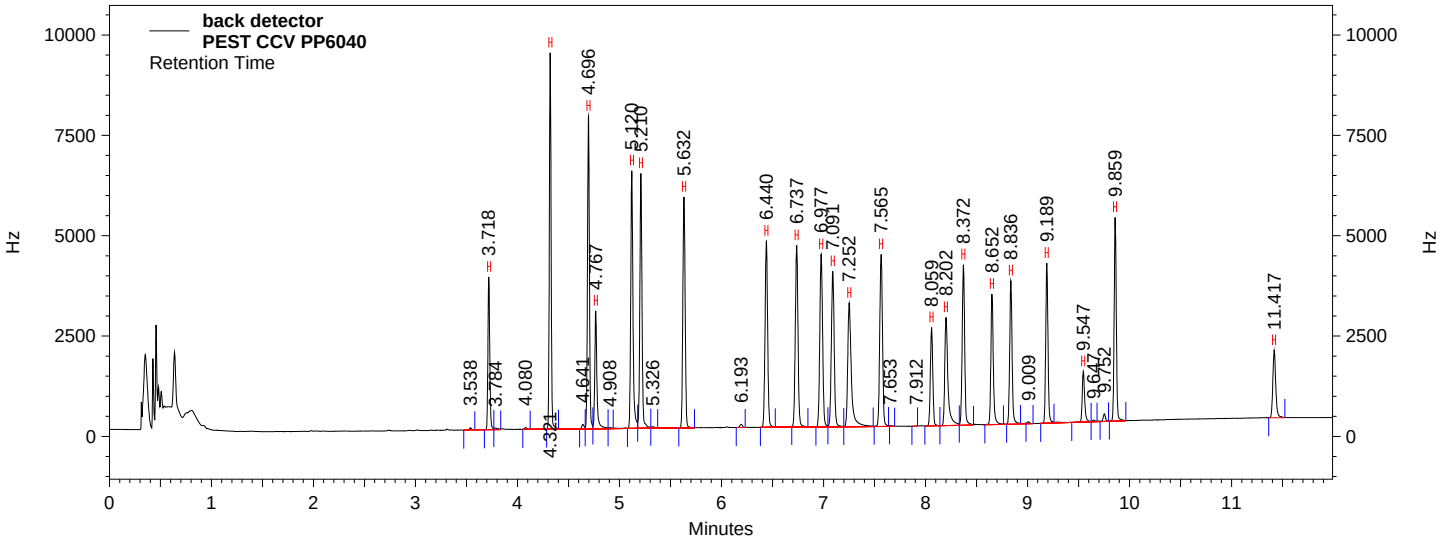
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.181	53862223	103.0886
ALPHABHC	3.643	125900734	0.0417
LINDANE	3.911	106388979	0.0411
BETABHC	3.980	48622744	0.0401
DELTABHC	4.138	105597790	0.0414
HEPTACHLOR	4.341	111844471	0.0415
ALDRIN	4.627	102271667	0.0416
HEPTAEPOX	5.248	90604777	0.0411
GAMMACHLOR	5.398	96332157	0.0415
ALPHACHLOR	5.552	93566972	0.0410
44DDE	5.652	70396990	0.0395
ENDOI	5.718	101916170	0.0429
DIELDRIN	6.023	95648798	0.0418
ENDRIN	6.339	45128420	0.0401
44DDD	6.454	63677512	0.0401
ENDOII	6.668	79747958	0.0420
44DDT	6.883	68066886	0.0439
ENDRINALDEH	7.331	68183124	0.0467
METHOXYCL	7.714	27774078	0.0420
ENDOSULFATE	8.002	74524504	0.0418
ENDRINKETONE	8.391	91680533	0.0424
SURRDCBPEST	9.704	40983401	105.7392

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\024.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: PEST CCV PP6040
Acquired: 11/21/2019 23:18:02
Printed: 11/22/2019 10:13:35

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.718	37370898	100.6451
ALPHABHC	4.321	86749853	0.0404
LINDANE	4.696	77252412	0.0404
BETABHC	4.767	32750429	0.0397
DELTABHC	5.120	74725345	0.0404
HEPTACHLOR	5.210	72216092	0.0400
ALDRIN	5.632	69602062	0.0403
HEPTAEPOX	6.440	63231516	0.0402
GAMMACHLOR	6.737	63566233	0.0405
ALPHACHLOR	6.977	62280449	0.0405
ENDOI	7.091	58144022	0.0403
44DDE	7.252	59079666	0.0405
DIELDRIN	7.565	61869567	0.0403
ENDRIN	8.059	31252645	0.0391
44DDD	8.202	44806222	0.0394
ENDOII	8.372	51793774	0.0405
44DDT	8.652	41562991	0.0426
ENDRINALDEH	8.836	44826925	0.0470
ENDOSULFATE	9.189	47024259	0.0407
METHOXYCL	9.547	16198266	0.0410
ENDRINKETONE	9.859	56931771	0.0413
SURRDCBPEST	11.417	25776870	103.2738

QC Check Standard Report

Sequence : C:\Instarch\Semi1\Sequence\112119pst.seq
User : JJY
Printed : 11/22/2019 10:13:43

File	Sample ID	Acquired
C:\Instarch\Semi1\data\112119pst\025.dat	TC CCV PP6041	11/22/2019 10:13:43

front detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	60.192	0.320	20.000	Passed
Chlordane #1	0.050	0.050	0.564	20.000	Passed
Chlordane #2	0.050	0.050	0.747	20.000	Passed
Chlordane #3	0.050	0.050	0.276	20.000	Passed
Chlordane #4	0.050	0.049	2.547	20.000	Passed
Chlordane #5	0.050	0.053	6.253	20.000	Passed
Toxaphene #1	0.050	0.051	2.888	20.000	Passed
Toxaphene #2	0.050	0.054	8.043	20.000	Passed
Toxaphene #3	0.050	0.052	4.549	20.000	Passed
Toxaphene #4	0.050	0.054	8.057	20.000	Passed
Toxaphene #5	0.050	0.057	14.170	20.000	Passed
SURRDCBPEST	60.000	64.142	6.903	20.000	Passed
Chlordane	0.250	0.253	1.059	20.000	Passed
Toxaphene	0.250	0.269	7.541	20.000	Passed

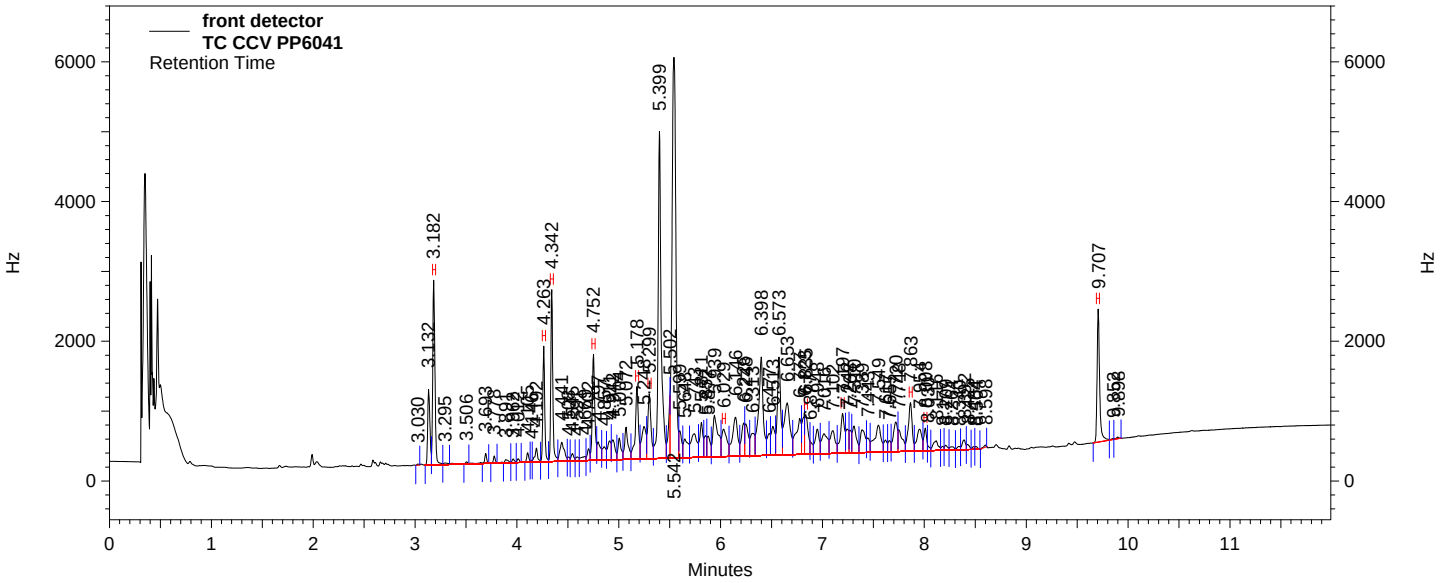
back detector

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRTCMXPEST	60.000	59.021	1.631	20.000	Passed
Chlordane #1	0.050	0.050	0.235	20.000	Passed
Chlordane #2	0.050	0.050	0.768	20.000	Passed
Chlordane #3	0.050	0.050	0.819	20.000	Passed
Chlordane #4	0.050	0.050	0.667	20.000	Passed
Chlordane #5	0.050	0.053	5.723	20.000	Passed
Toxaphene #1	0.050	0.053	5.440	20.000	Passed
Toxaphene #2	0.050	0.053	6.473	20.000	Passed
Toxaphene #3	0.050	0.058	15.964	20.000	Passed
Toxaphene #4	0.050	0.056	11.708	20.000	Passed
Toxaphene #5	0.050	0.059	17.198	20.000	Passed
SURRDCBPEST	60.000	63.019	5.032	20.000	Passed
Chlordane	0.250	0.252	0.914	20.000	Passed
Toxaphene	0.250	0.278	11.357	20.000	Passed

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\025.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
User: JJY
Sample ID: TC CCV PP6041
Acquired: 11/21/2019 23:34:21
Printed: 11/22/2019 10:13:41

Data Summary: {Data Description}



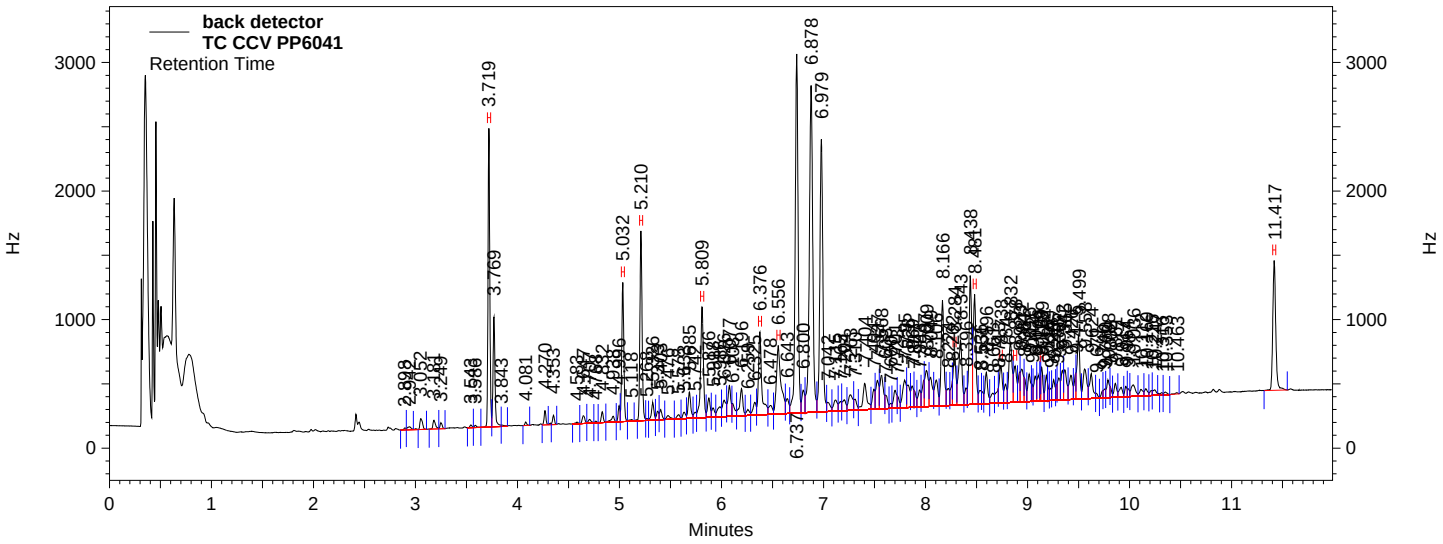
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.182	30939456	60.1921
Chlordane #1	4.263	16575552	0.0503
Chlordane #2	4.342	25659159	0.0504
Chlordane #3	4.752	20259332	0.0501
Chlordane #4	5.178	17051139	0.0487
Chlordane #5	5.299	15591350	0.0531
Toxaphene #1	6.029	10688425	0.0514
Toxaphene #2	6.835	10155668	0.0540
Toxaphene #3	7.197	12081056	0.0523
Toxaphene #4	7.863	14333130	0.0540
Toxaphene #5	8.008	4557339	0.0571
SURRDCBPEST	9.707	25152271	64.1420
Chlordane		95136532	0.2526
Toxaphene		51815618	0.2689

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\025.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
User: JJY
Sample ID: TC CCV PP6041
Acquired: 11/21/2019 23:34:21
Printed: 11/22/2019 10:13:41

Data Summary: {Data Description}



back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.719	21727598	59.0212
Chlordane #1	5.032	11660041	0.0499
Chlordane #2	5.210	16810440	0.0496
Chlordane #3	5.809	12968250	0.0496
Chlordane #4	6.376	10849167	0.0503
Chlordane #5	6.556	12630493	0.0529
Toxaphene #1	8.284	5988338	0.0527
Toxaphene #2	8.481	12188009	0.0532
Toxaphene #3	8.738	4673145	0.0580
Toxaphene #4	8.878	4461171	0.0559
Toxaphene #5	9.139	2809248	0.0586
SURRDCBPEST	11.417	15684154	63.0191
Chlordane		64918391	0.2523
Toxaphene		30119911	0.2784

QC Check Standard Report

Sequence : C:\Instarch\Semi6\Sequence\112219hrb.seq
User : JJY
Printed : 11/25/2019 09:06:08

File	Sample ID	Acquired
C:\Instarch\Semi6\Data\112219hrb\003.dat	AH CCV PP 6083	11/25/2019 09:06:08

Front Signal

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRDCAA	100.000	101.987	1.987	20.000	Passed
2,4-D	0.500	0.521	4.157	20.000	Passed
Silvex	0.100	0.104	4.283	20.000	Passed

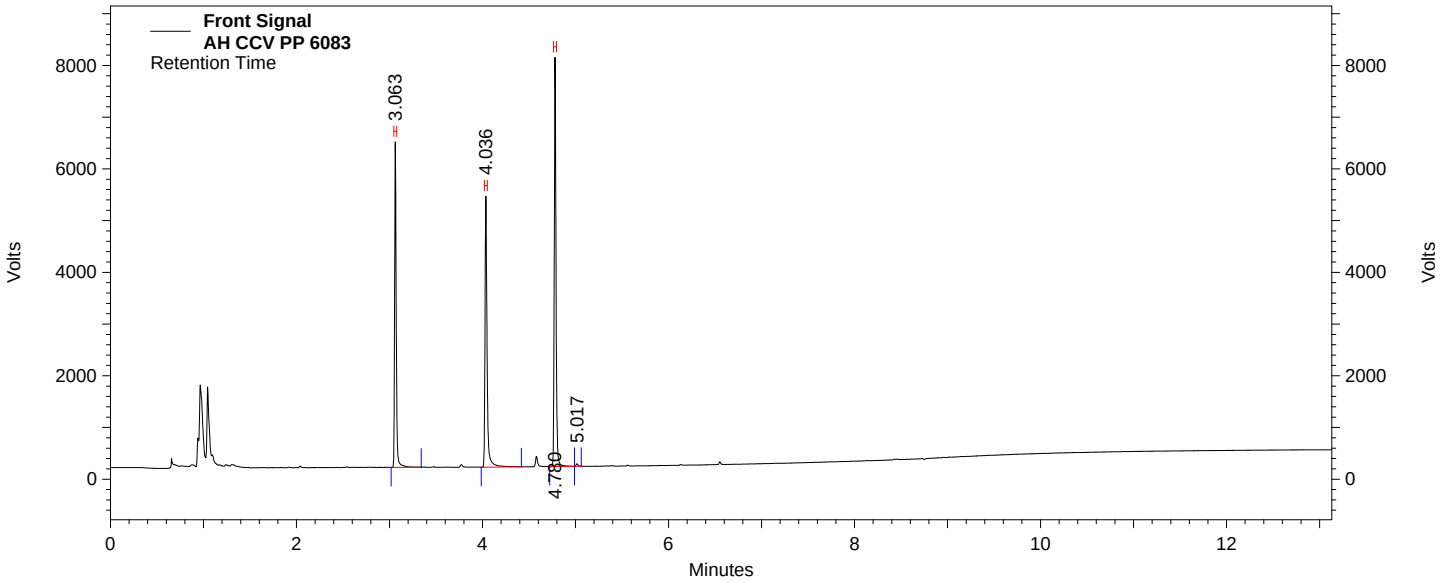
Back Signal

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRDCAA	100.000	101.066	1.066	20.000	Passed
2,4-D	0.500	0.508	1.695	20.000	Passed
Silvex	0.100	0.101	0.574	20.000	Passed

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\112219hrb\003.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: AH CCV PP 6083
Acquired: 11/22/2019 15:54:32
Printed: 11/25/2019 09:06:07

Data Summary: {Data Description}



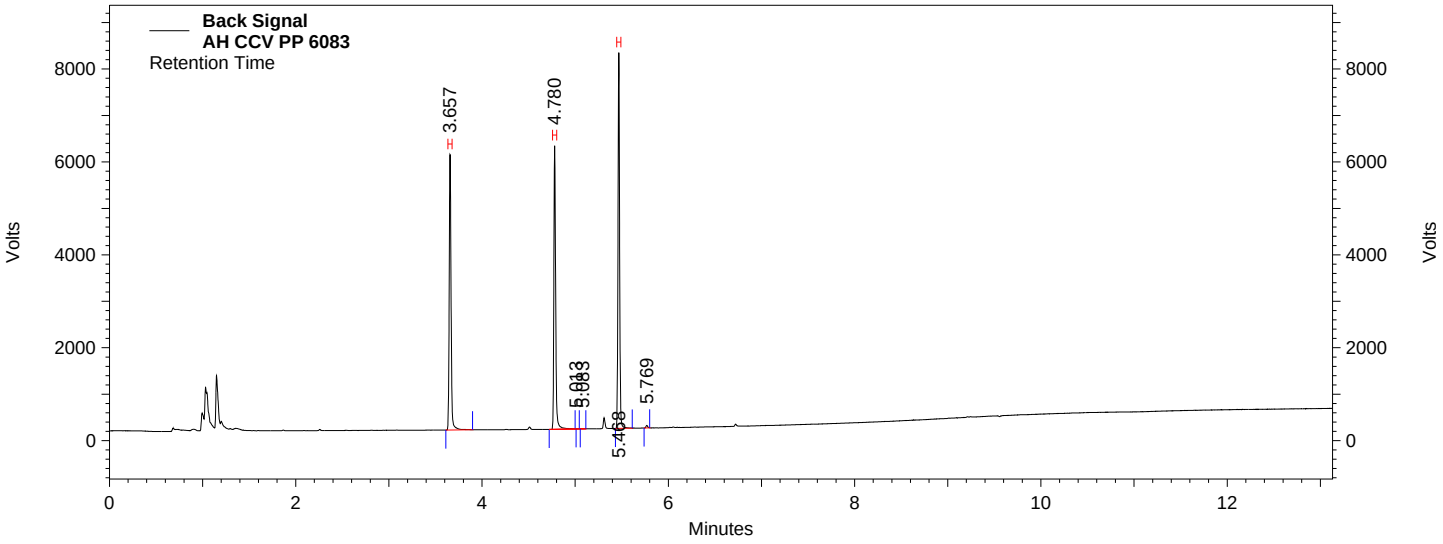
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.063	58586266	101.9868
2,4-D	4.036	62323092	0.5208
Silvex	4.780	80205380	0.1043

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\112219hrb\003.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: AH CCV PP 6083
Acquired: 11/22/2019 15:54:32
Printed: 11/25/2019 09:06:07

Data Summary: {Data Description}



Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.657	63163835	101.0658
2,4-D	4.780	62166538	0.5085
Silvex	5.468	74114409	0.1006

QC Check Standard Report

Sequence : C:\Instarch\Semi6\Sequence\112219hrb.seq
User : JJY
Printed : 11/25/2019 09:06:43

File	Sample ID	Acquired
C:\Instarch\Semi6\Data\112219hrb\014.dat	AH CCV PP 6083	11/25/2019 09:06:42

Front Signal

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRDCAA	100.000	103.370	3.370	20.000	Passed
2,4-D	0.500	0.539	7.777	20.000	Passed
Silvex	0.100	0.106	5.906	20.000	Passed

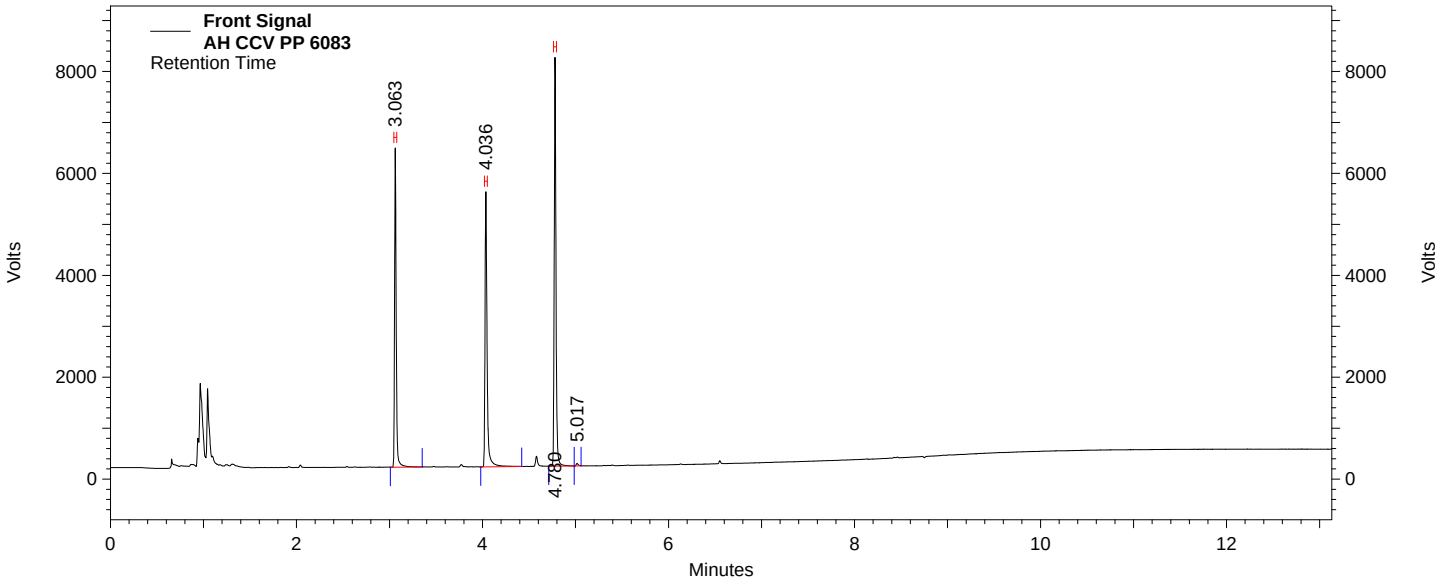
Back Signal

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
SURRDCAA	100.000	103.615	3.615	20.000	Passed
2,4-D	0.500	0.550	9.909	20.000	Passed
Silvex	0.100	0.107	7.129	20.000	Passed

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\112219hrb\014.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: AH CCV PP 6083
Acquired: 11/22/2019 18:59:35
Printed: 11/25/2019 09:06:41

Data Summary: {Data Description}



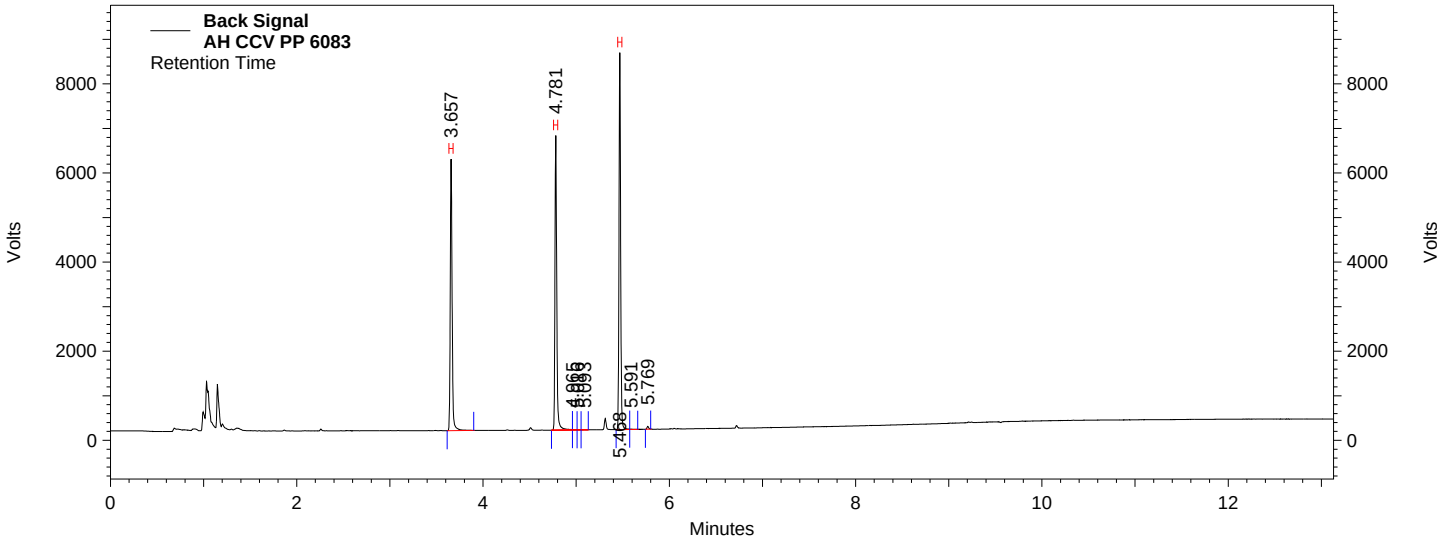
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.063	59369276	103.3696
2,4-D	4.036	64473985	0.5389
Silvex	4.780	81457439	0.1059

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\112219hrb\014.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: AH CCV PP 6083
Acquired: 11/22/2019 18:59:35
Printed: 11/25/2019 09:06:41

Data Summary: {Data Description}



Back Signal Results

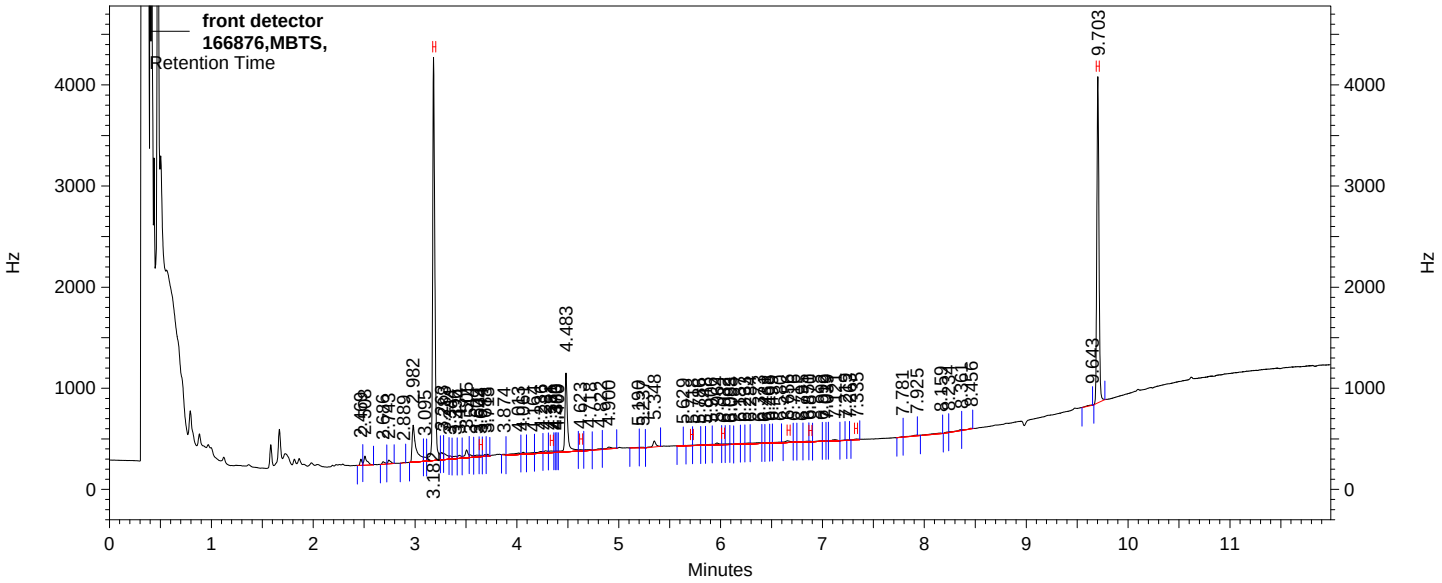
Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.657	64736230	103.6146
2,4-D	4.781	67177403	0.5495
Silvex	5.468	78947913	0.1071

PESTICIDE/HERBICIDE
QUALITY CONTROL
DOCUMENTS

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\007.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,MBTS,
Acquired: 11/21/2019 18:40:49
Printed: 11/22/2019 10:12:37

Data Summary: {Data Description}



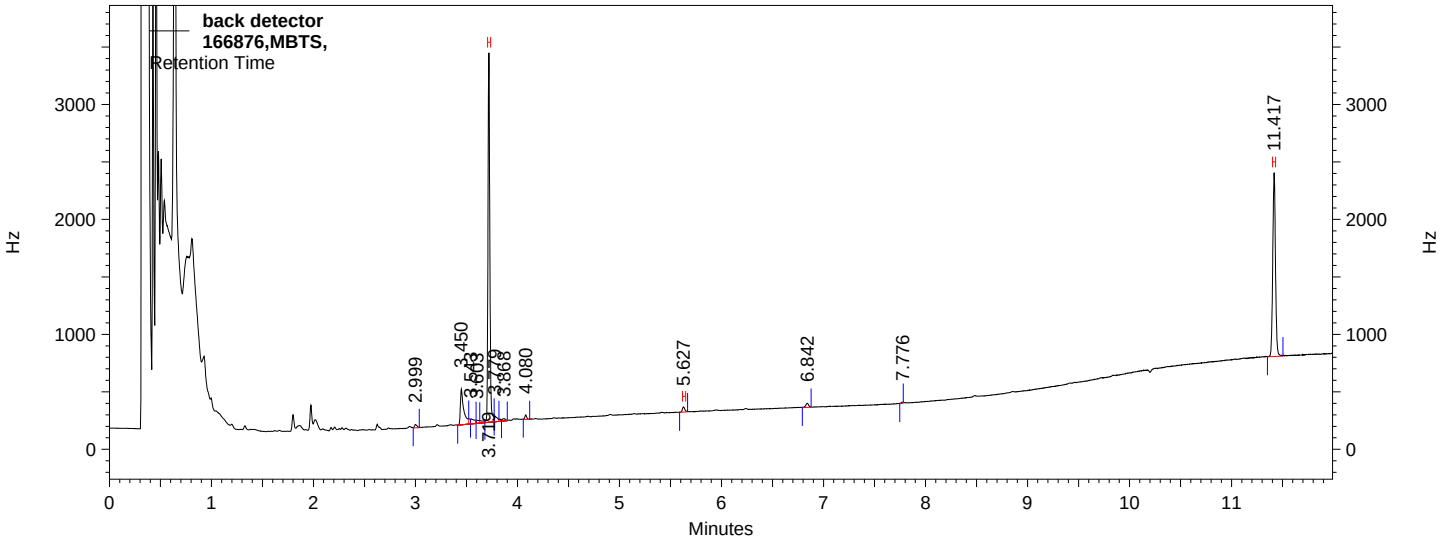
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.182	46731759	89.5943
ALPHABHC	3.644	186078	0.0001
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR	4.331	371419	0.0000
ALDRIN	4.623	283460	0.0000
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
44DDE			0.0000 BDL
ENDOI	5.718	94114	0.0000
DIELDRIN	6.032	113791	0.0000
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII	6.656	505267	0.0001
44DDT	6.870	78030	0.0000
ENDRINALDEH	7.335	226684	0.0000
METHOXYCL			0.0000 BDL
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	9.703	35651909	91.8269

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\007.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,MBTS,
Acquired: 11/21/2019 18:40:49
Printed: 11/22/2019 10:12:37

Data Summary: {Data Description}



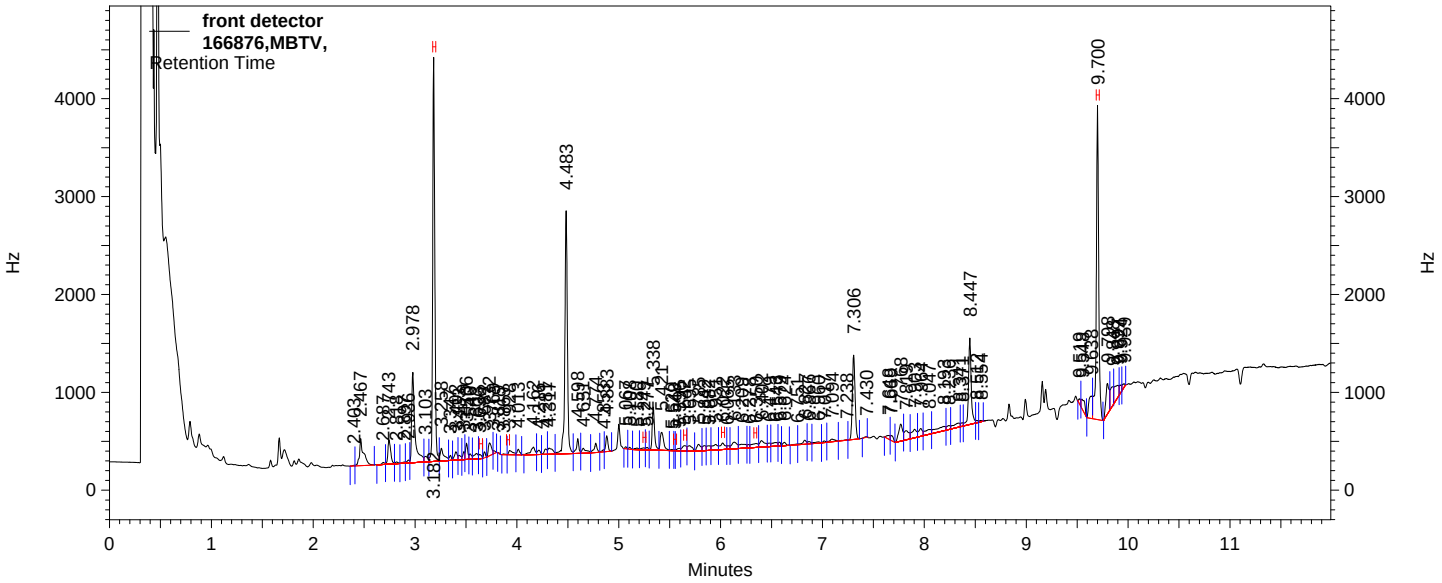
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.719	31637826	84.9832
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR			0.0000 BDL
ALDRIN	5.627	596232	0.0000
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
ENDOI			0.0000 BDL
44DDE			0.0000 BDL
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
ENDOSULFATE			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	11.417	22773161	91.1558

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\008.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,MBTV,
Acquired: 11/21/2019 18:57:06
Printed: 11/22/2019 10:12:40

Data Summary: {Data Description}



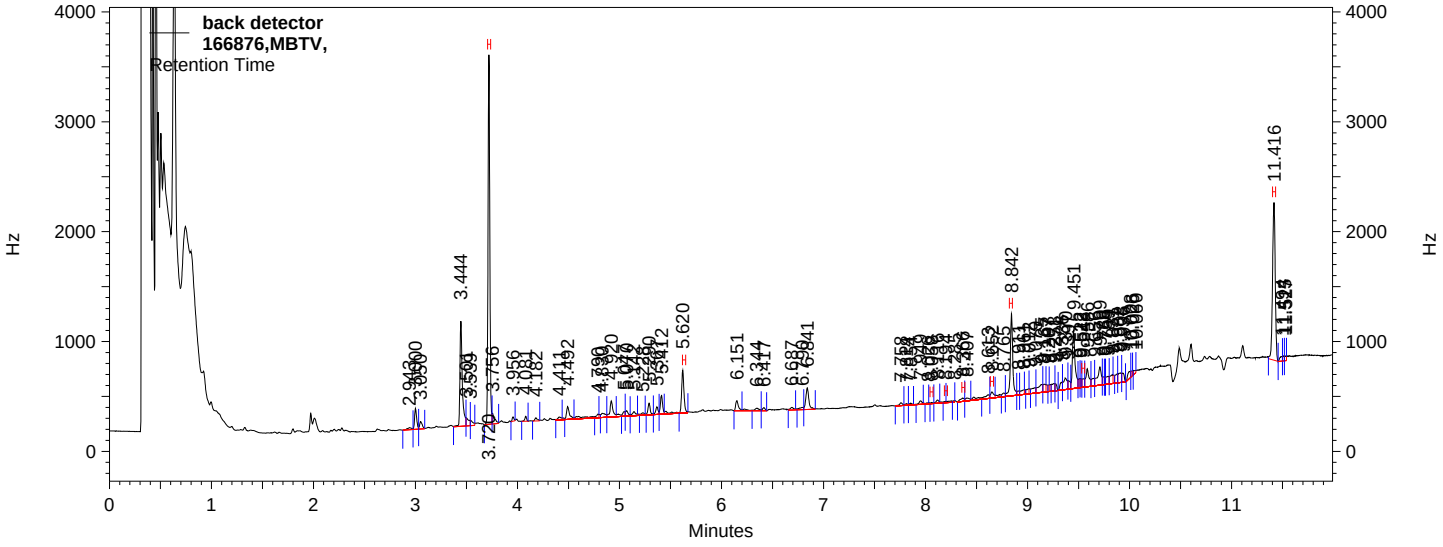
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.182	45868006	87.9554
ALPHABHC	3.636	606151	0.0003
LINDANE	3.928	985720	0.0004
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR			0.0000 BDL
ALDRIN			0.0000 BDL
HEPTAEPOX	5.249	389295	0.0000
GAMMACHLOR			0.0000 BDL
ALPHACHLOR	5.548	60898	0.0000
44DDE	5.642	1256805	0.0008
ENDOI			0.0000 BDL
DIELDRIN	6.022	1765161	0.0006
ENDRIN	6.350	1420625	0.0010
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
METHOXYCL			0.0000 BDL
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	9.700	39504224	101.8770

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\008.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,MBTV,
Acquired: 11/21/2019 18:57:06
Printed: 11/22/2019 10:12:40

Data Summary: {Data Description}



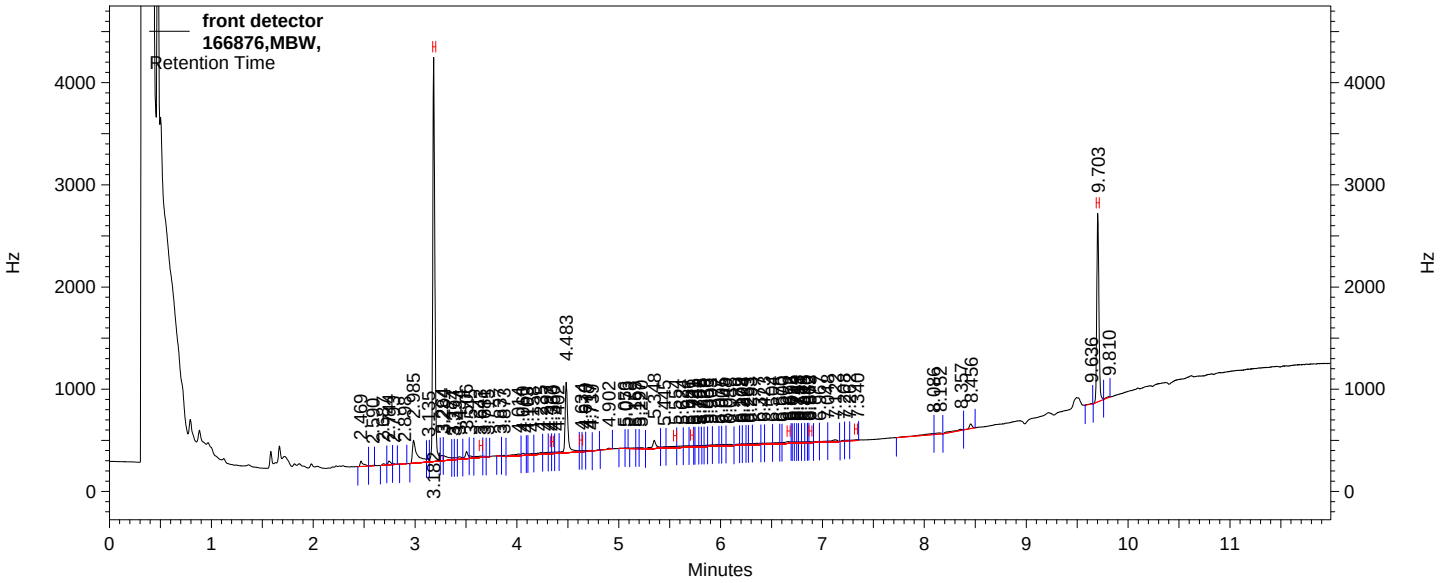
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.720	31781810	85.3760
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR			0.0000 BDL
ALDRIN	5.620	4743306	0.0024
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
ENDOI			0.0000 BDL
44DDE			0.0000 BDL
DIELDRIN			0.0000 BDL
ENDRIN	8.058	130810	0.0000
44DDD	8.194	148393	0.0000
ENDOII	8.366	633052	0.0003
44DDT	8.652	941958	0.0010
ENDRINALDEH	8.842	9557208	0.0100
ENDOSULFATE			0.0000 BDL
METHOXYCL	9.548	1019468	0.0028
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	11.416	20073374	80.2514

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\009.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,MBW,
Acquired: 11/21/2019 19:13:24
Printed: 11/22/2019 10:12:43

Data Summary: {Data Description}



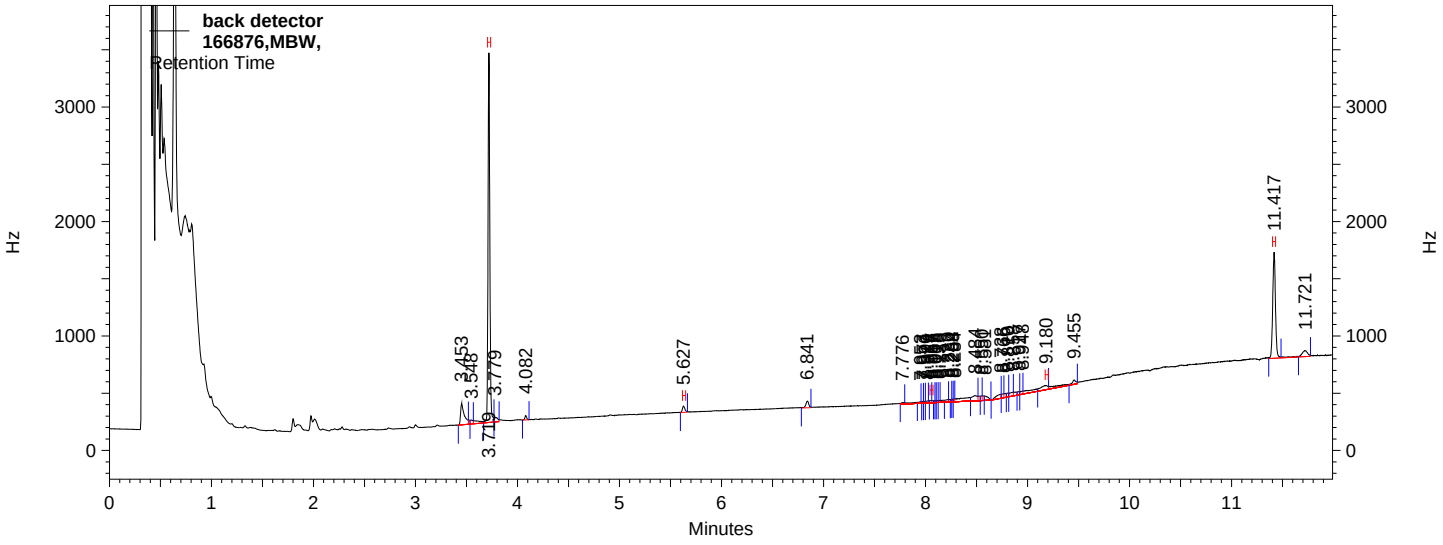
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.182	44108133	84.6134
ALPHABHC	3.643	520545	0.0003
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR	4.333	230530	0.0000
ALDRIN	4.634	147755	0.0000
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR	5.554	637653	0.0001
44DDE			0.0000 BDL
ENDOI	5.721	276773	0.0000
DIELDRIN			0.0000 BDL
ENDRIN			0.0000 BDL
44DDD			0.0000 BDL
ENDOII	6.672	558678	0.0001
44DDT	6.873	156829	0.0001
ENDRINALDEH	7.340	243558	0.0000
METHOXYCL			0.0000 BDL
ENDOSULFATE			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	9.703	20500628	52.4156

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\009.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,MBW,
Acquired: 11/21/2019 19:13:24
Printed: 11/22/2019 10:12:43

Data Summary: {Data Description}



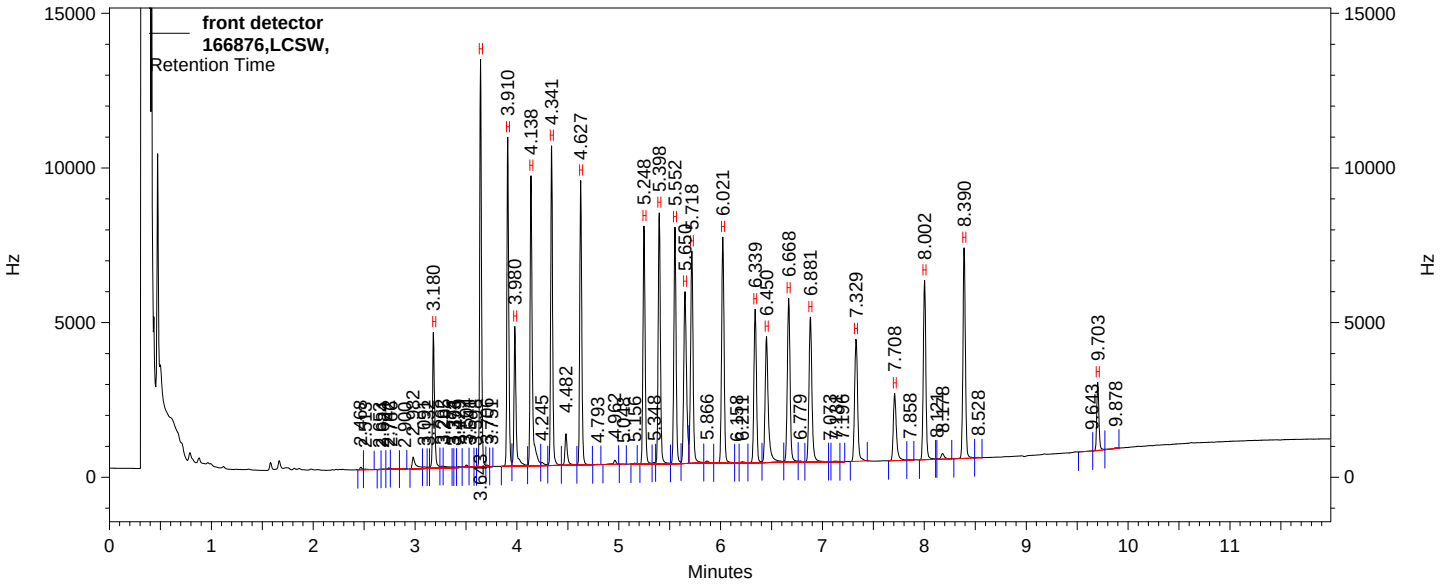
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.719	30842354	82.8142
ALPHABHC			0.0000 BDL
LINDANE			0.0000 BDL
BETABHC			0.0000 BDL
DELTABHC			0.0000 BDL
HEPTACHLOR			0.0000 BDL
ALDRIN	5.627	733154	0.0001
HEPTAEPOX			0.0000 BDL
GAMMACHLOR			0.0000 BDL
ALPHACHLOR			0.0000 BDL
ENDOI			0.0000 BDL
44DDE			0.0000 BDL
DIELDRIN			0.0000 BDL
ENDRIN	8.057	197673	0.0000
44DDD			0.0000 BDL
ENDOII			0.0000 BDL
44DDT			0.0000 BDL
ENDRINALDEH			0.0000 BDL
ENDOSULFATE	9.180	1386607	0.0010
METHOXYCL			0.0000 BDL
ENDRINKETONE			0.0000 BDL
SURRDCBPEST	11.417	13259142	52.6755

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\010.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,LCSW,
Acquired: 11/21/2019 19:29:41
Printed: 11/22/2019 10:12:47

Data Summary: {Data Description}



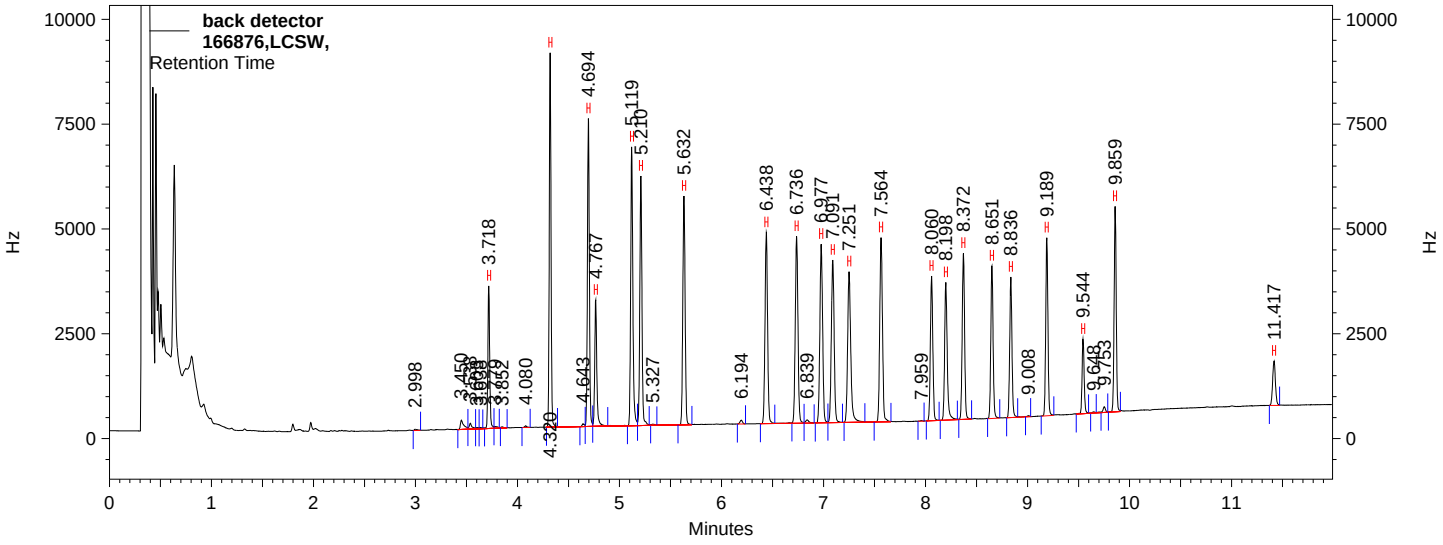
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.180	47233916	90.5467
ALPHABHC	3.643	119563464	0.0397
LINDANE	3.910	101113787	0.0391
BETABHC	3.980	49382650	0.0407
DELTABHC	4.138	107024070	0.0419
HEPTACHLOR	4.341	104679720	0.0389
ALDRIN	4.627	96317968	0.0393
HEPTAEPOX	5.248	86985574	0.0395
GAMMACHLOR	5.398	93530870	0.0403
ALPHACHLOR	5.552	89878700	0.0394
44DDE	5.650	81550543	0.0450
ENDOI	5.718	90918018	0.0380
DIELDRIN	6.021	94465981	0.0413
ENDRIN	6.339	65555337	0.0565
44DDD	6.450	69289055	0.0433
ENDOII	6.668	77388264	0.0407
44DDT	6.881	73255200	0.0468
ENDRINALDEH	7.329	62478185	0.0430
METHOXYCL	7.708	34871704	0.0514
ENDOSULFATE	8.002	77749964	0.0436
ENDRINKETONE	8.390	87485459	0.0405
SURRDCBPEST	9.703	24770760	63.5044

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\010.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,LCSW,
Acquired: 11/21/2019 19:29:41
Printed: 11/22/2019 10:12:47

Data Summary: {Data Description}



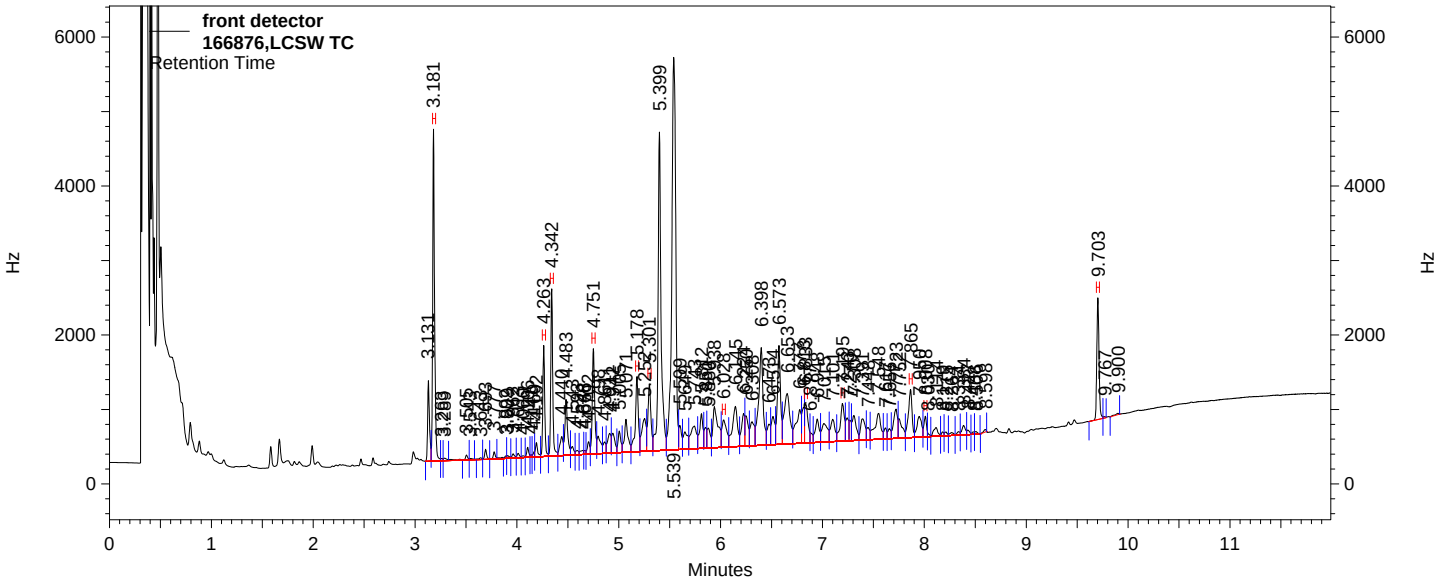
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.718	32873661	88.3550
ALPHABHC	4.320	82237178	0.0383
LINDANE	4.694	73104072	0.0383
BETABHC	4.767	33119875	0.0402
DELTABHC	5.119	75456518	0.0408
HEPTACHLOR	5.210	67178132	0.0371
ALDRIN	5.632	65204239	0.0377
HEPTAEPOX	6.438	61561954	0.0391
GAMMACHLOR	6.736	61963440	0.0394
ALPHACHLOR	6.977	60287011	0.0392
ENDOI	7.091	57265837	0.0397
44DDE	7.251	58907610	0.0404
DIELDRIN	7.564	62307795	0.0406
ENDRIN	8.060	43830348	0.0542
44DDD	8.198	44719177	0.0393
ENDOII	8.372	49548613	0.0387
44DDT	8.651	43740677	0.0447
ENDRINALDEH	8.836	39753903	0.0418
ENDOSULFATE	9.189	48880584	0.0423
METHOXYCL	9.544	19462180	0.0484
ENDRINKETONE	9.859	53426557	0.0388
SURRDCBPEST	11.417	15560669	61.9979

Pesticide (TOX/Chlordane) Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\011.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
User: JJY
Sample ID: 166876,LCSW TC
Acquired: 11/21/2019 19:46:02
Printed: 11/22/2019 10:12:50

Data Summary: {Data Description}



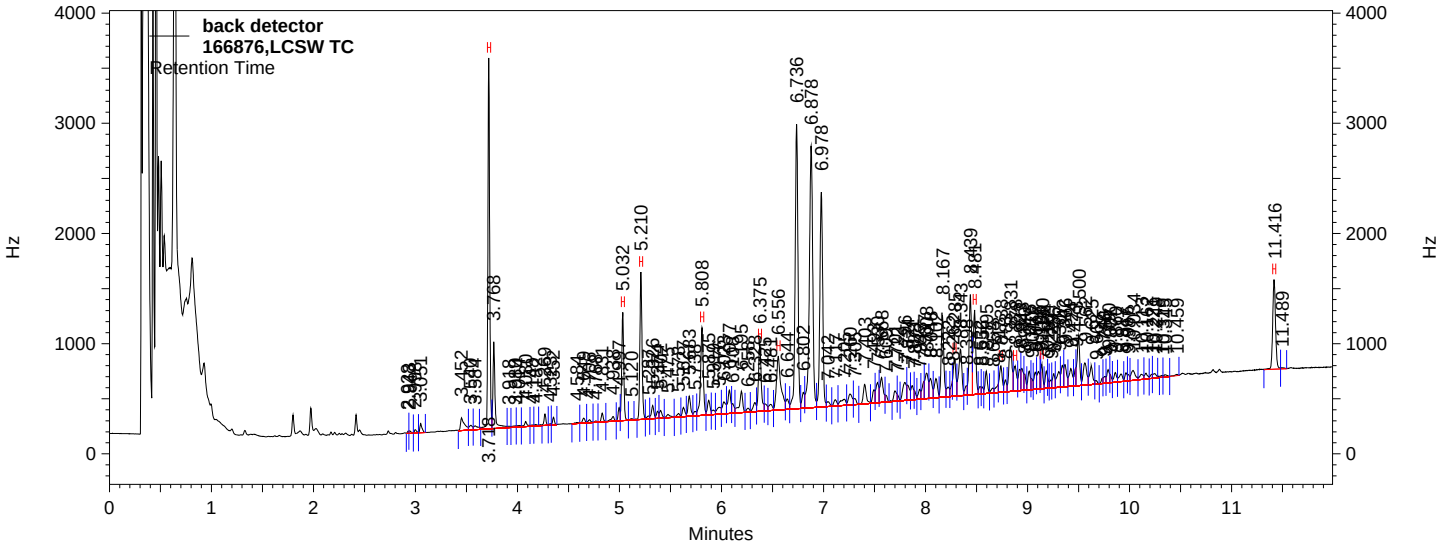
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.181	44940774	87.2600
Chlordane #1	4.263	14947560	0.0453
Chlordane #2	4.342	23064505	0.0453
Chlordane #3	4.751	18052927	0.0446
Chlordane #4	5.178	15614764	0.0446
Chlordane #5	5.301	14251106	0.0487
Toxaphene #1	6.028	9099342	0.0439
Toxaphene #2	6.833	9060695	0.0484
Toxaphene #3	7.195	10921466	0.0475
Toxaphene #4	7.865	12453266	0.0472
Toxaphene #5	8.008	3720832	0.0470
SURRDCBPEST	9.703	18826433	47.7514
Chlordane		85930862	0.2285
Toxaphene		45255601	0.2339

Pesticide (TOX/Chlordane) Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\011.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
User: JJY
Sample ID: 166876,LCSW TC
Acquired: 11/21/2019 19:46:02
Printed: 11/22/2019 10:12:50

Data Summary: {Data Description}



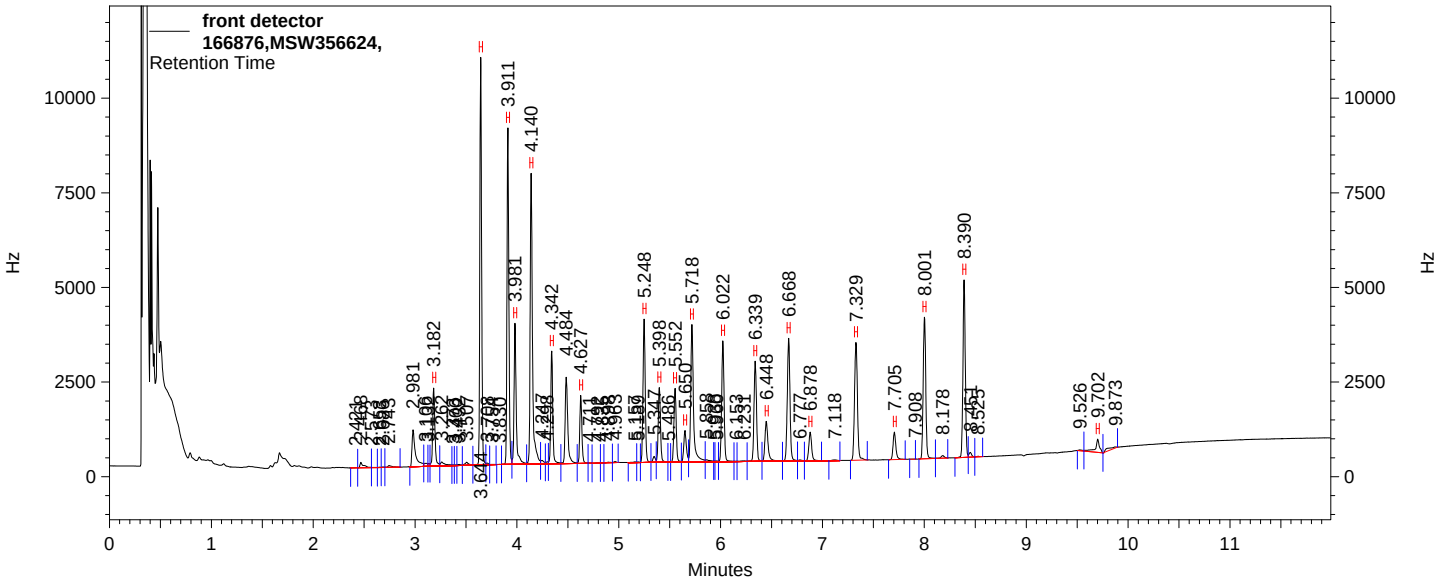
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.718	31933600	87.0399
Chlordane #1	5.032	10435710	0.0446
Chlordane #2	5.210	14906628	0.0439
Chlordane #3	5.808	11632141	0.0444
Chlordane #4	6.375	8676620	0.0402
Chlordane #5	6.556	11279092	0.0472
Toxaphene #1	8.285	4959247	0.0439
Toxaphene #2	8.481	10495388	0.0458
Toxaphene #3	8.738	3563541	0.0446
Toxaphene #4	8.878	3543674	0.0447
Toxaphene #5	9.140	2221501	0.0468
SURRDCBPEST	11.416	12017769	47.9879
Chlordane		56930191	0.2203
Toxaphene		24783351	0.2259

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi1\data\112119pst\017.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,MSW356624,
Acquired: 11/21/2019 21:24:01
Printed: 11/22/2019 10:13:09

Data Summary: {Data Description}



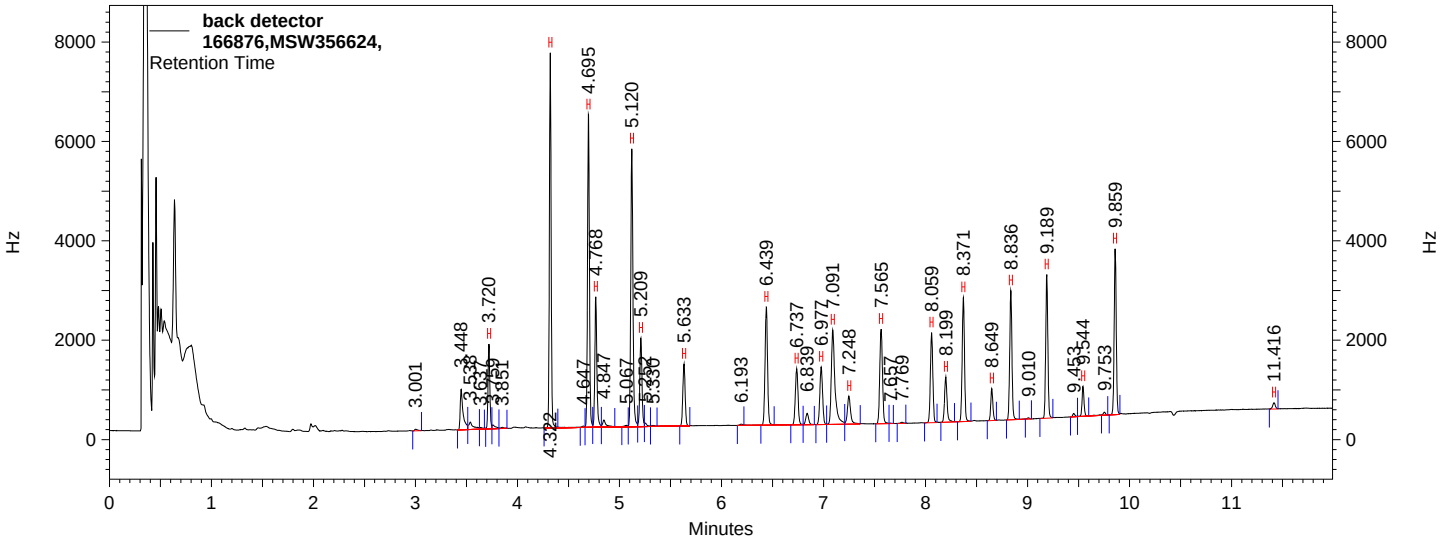
front detector Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.182	24549307	47.2094
ALPHABHC	3.644	99439888	0.0333
LINDANE	3.911	85100270	0.0331
BETABHC	3.981	42357005	0.0348
DELTABHC	4.140	93089946	0.0368
HEPTACHLOR	4.342	31685315	0.0116
ALDRIN	4.627	19611987	0.0081
HEPTAEPOX	5.248	43964083	0.0199
GAMMACHLOR	5.398	22996126	0.0099
ALPHACHLOR	5.552	23487067	0.0103
44DDE	5.650	11394135	0.0071
ENDOI	5.718	52178328	0.0214
DIELDRIN	6.022	39812291	0.0176
ENDRIN	6.339	34161105	0.0308
44DDD	6.448	17309738	0.0115
ENDOII	6.668	45969499	0.0243
44DDT	6.878	11216256	0.0082
ENDRINALDEH	7.329	47215876	0.0328
METHOXYCL	7.705	10764290	0.0176
ENDOSULFATE	8.001	50523983	0.0285
ENDRINKETONE	8.390	57260791	0.0265
SURRDCBPEST	9.702	7648622	19.1287

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi1\data\112119pst\017.dat
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
User: JJY
Sample ID: 166876,MSW356624,
Acquired: 11/21/2019 21:24:01
Printed: 11/22/2019 10:13:09

Data Summary: {Data Description}



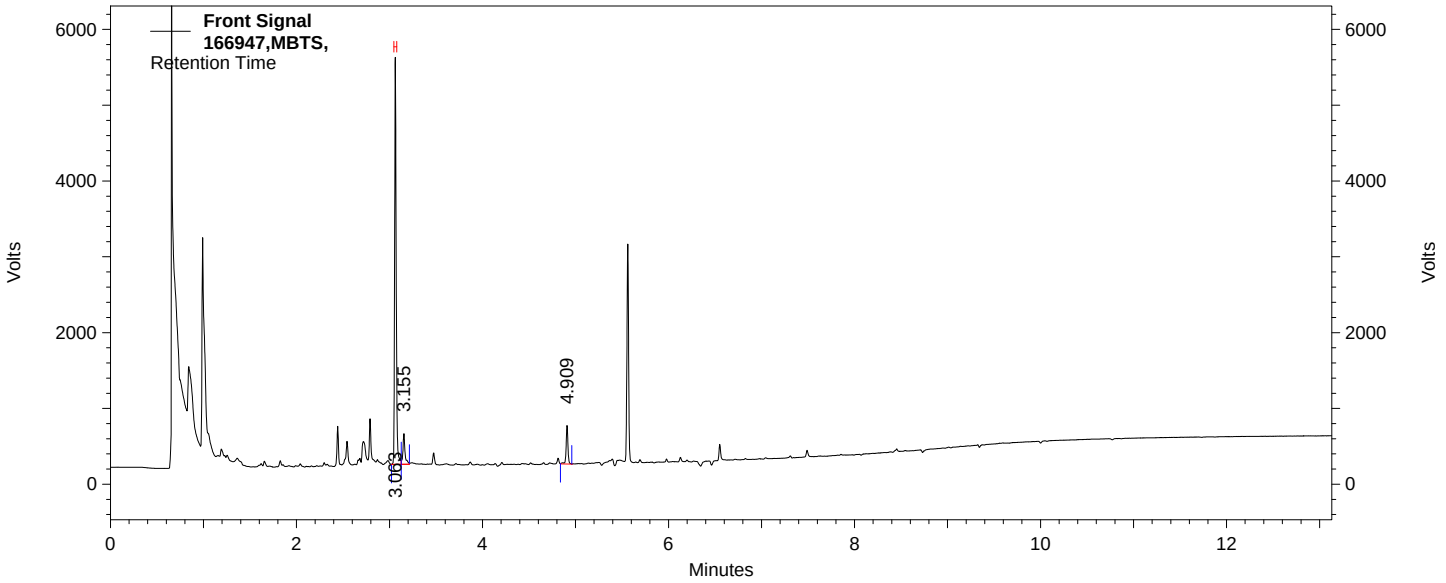
back detector Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRTCMXPEST	3.720	16441556	43.7149
ALPHABHC	4.322	69226061	0.0323
LINDANE	4.695	61434506	0.0322
BETABHC	4.768	27910549	0.0337
DELTABHC	5.120	64516840	0.0350
HEPTACHLOR	5.209	20387663	0.0109
ALDRIN	5.633	15158949	0.0085
HEPTAEPOX	6.439	31468699	0.0197
GAMMACHLOR	6.737	15917473	0.0100
ALPHACHLOR	6.977	16382210	0.0105
ENDOI	7.091	36340879	0.0250
44DDE	7.248	9589462	0.0066
DIELDRIN	7.565	27045819	0.0175
ENDRIN	8.059	23046475	0.0290
44DDD	8.199	11990645	0.0106
ENDOII	8.371	30191665	0.0234
44DDT	8.649	7120512	0.0078
ENDRINALDEH	8.836	30621785	0.0323
ENDOSULFATE	9.189	32262008	0.0279
METHOXYCL	9.544	6263782	0.0168
ENDRINKETONE	9.859	36010896	0.0261
SURRDCBPEST	11.416	1763976	5.9820

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\112219hrb\005.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,MBTS,
Acquired: 11/22/2019 16:28:07
Printed: 11/25/2019 09:25:13

Data Summary: {Data Description}



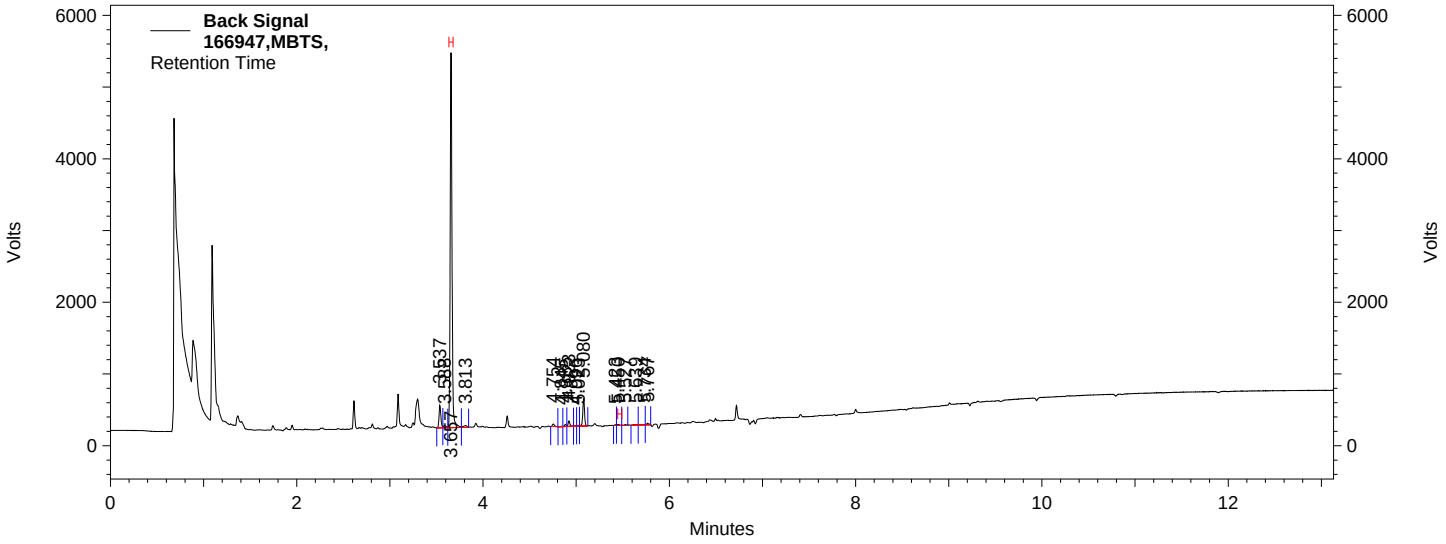
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.063	48865396	84.8198
2,4-D			0.0000 BDL
Silvex			0.0000 BDL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\112219hrb\005.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,MBTS,
Acquired: 11/22/2019 16:28:07
Printed: 11/25/2019 09:25:13

Data Summary: {Data Description}



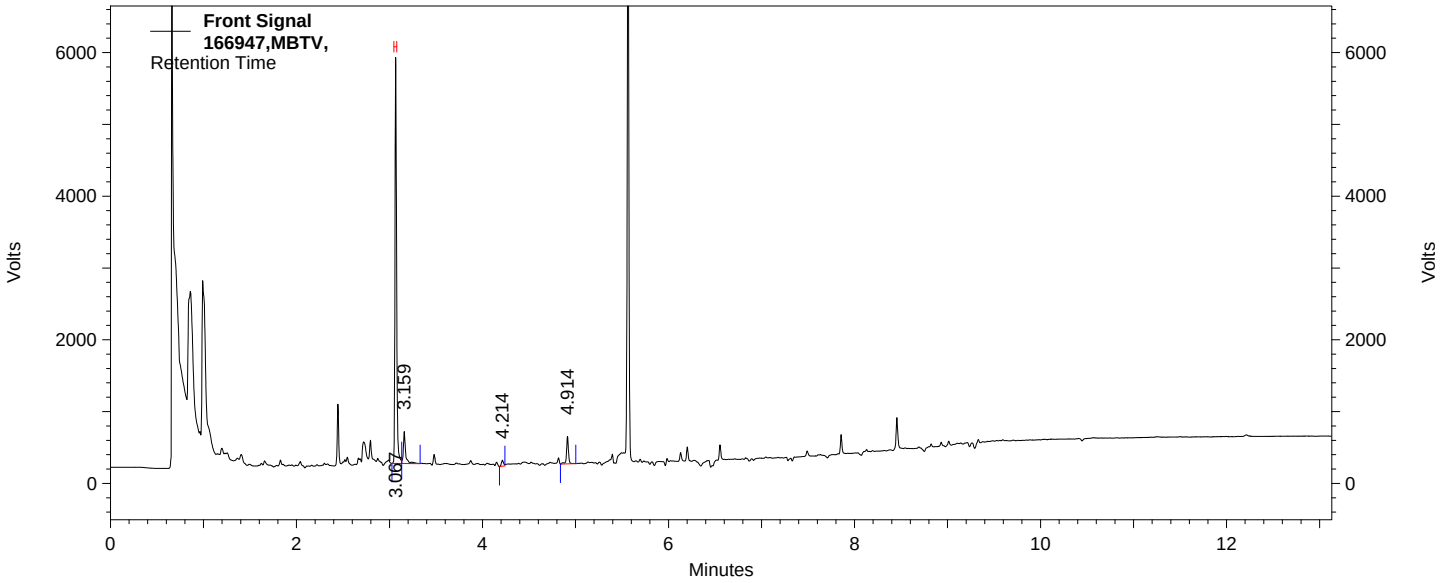
Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.657	54072462	86.3287
2,4-D			0.0000 BDL
Silvex	5.450	159827	0.0003

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\112219hrb\006.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,MBTV,
Acquired: 11/22/2019 16:44:56
Printed: 11/25/2019 09:26:37

Data Summary: {Data Description}



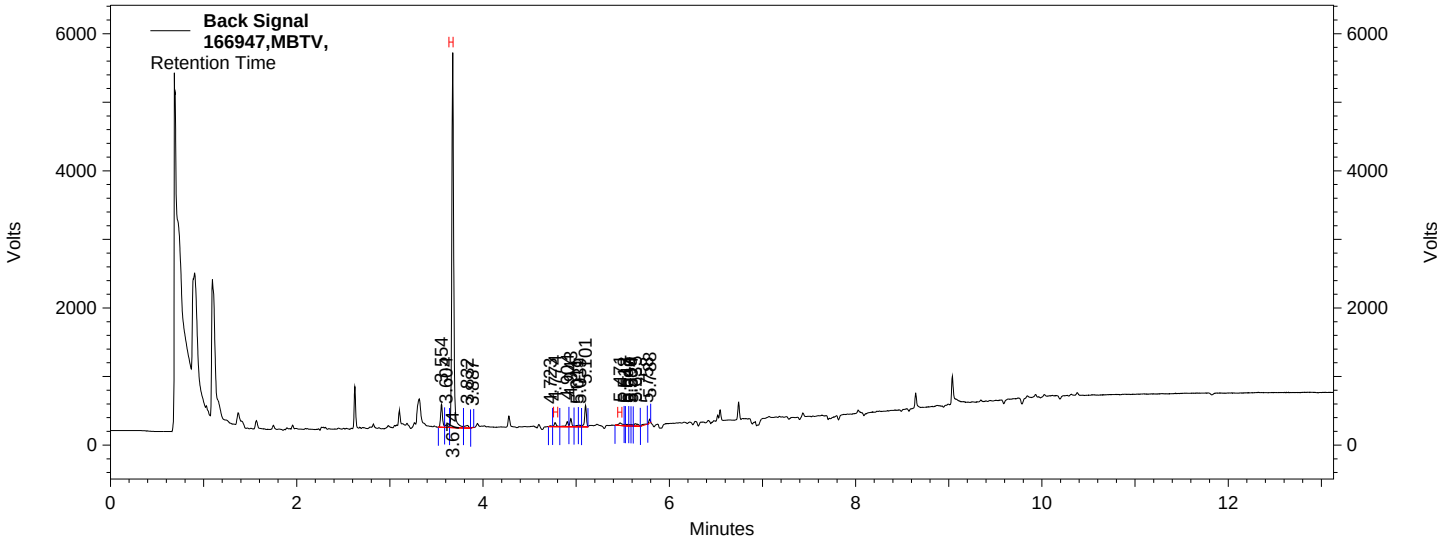
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.067	52501439	91.2410
2,4-D			0.0000 BDL
Silvex			0.0000 BDL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\112219hrb\006.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,MBTV,
Acquired: 11/22/2019 16:44:56
Printed: 11/25/2019 09:26:37

Data Summary: {Data Description}



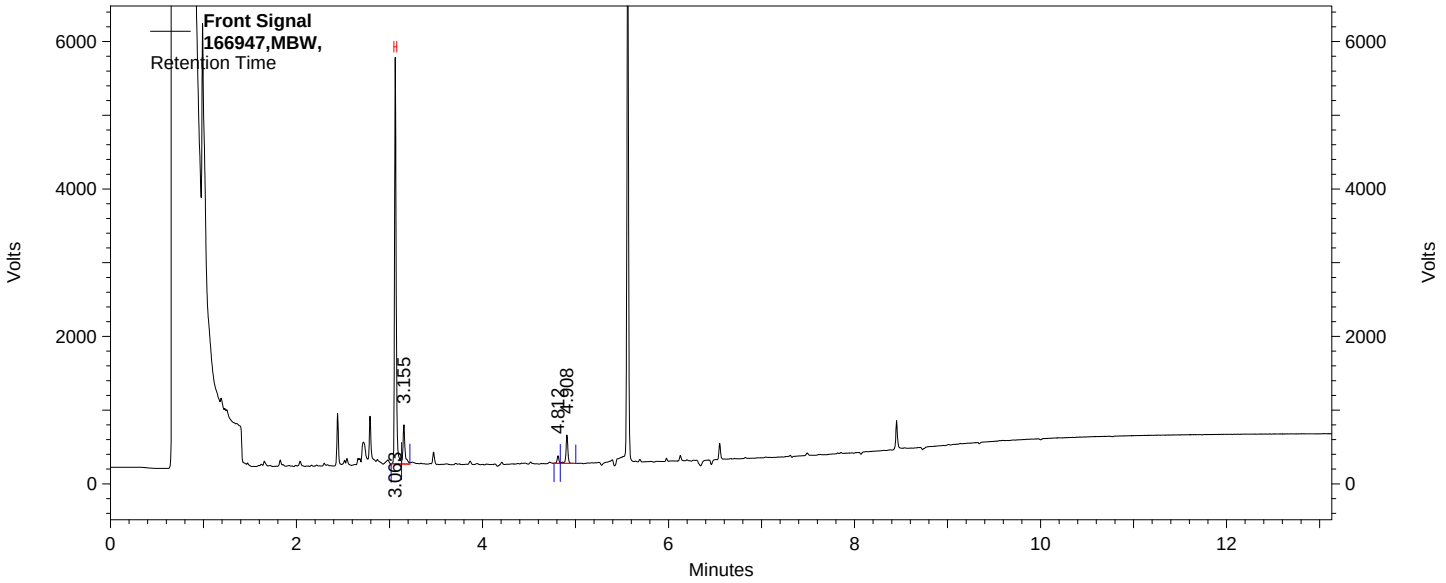
Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.674	58671588	93.7839
2,4-D	4.774	683969	0.0046
Silvex	5.471	866672	0.0012

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\112219hrb\007.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,MBW,
Acquired: 11/22/2019 17:01:45
Printed: 11/25/2019 09:26:42

Data Summary: {Data Description}



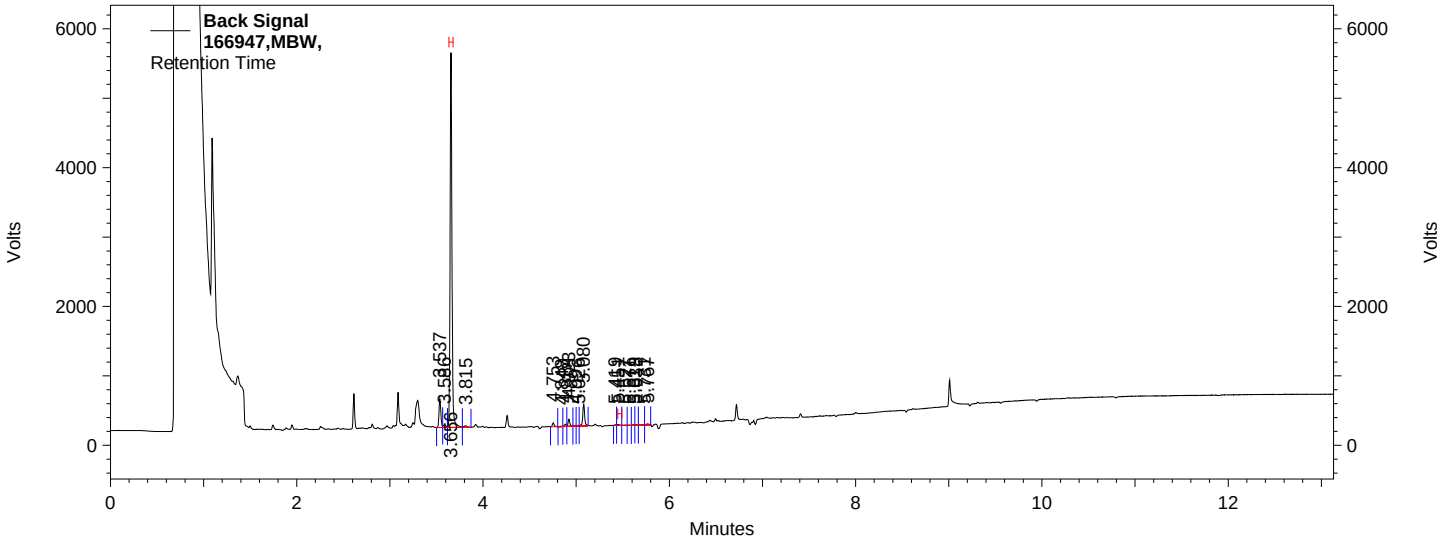
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.063	51243469	89.0195
2,4-D			0.0000 BDL
Silvex			0.0000 BDL

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\112219hrb\007.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,MBW,
Acquired: 11/22/2019 17:01:45
Printed: 11/25/2019 09:26:42

Data Summary: {Data Description}



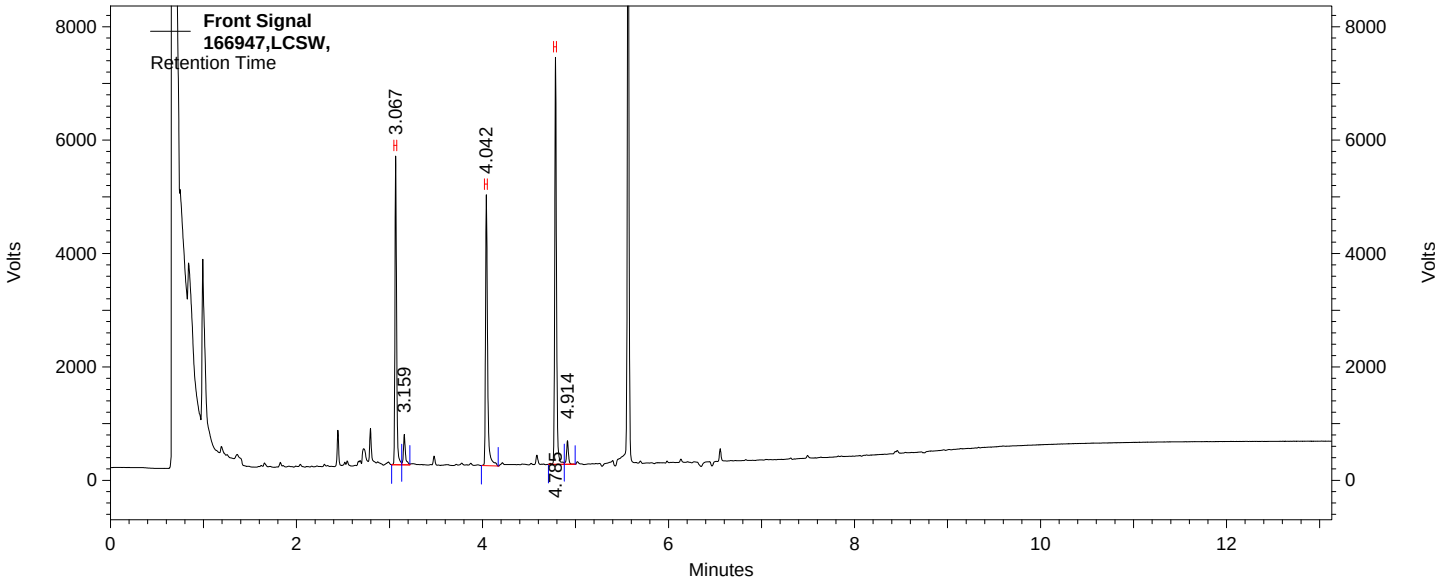
Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.656	56955997	91.0029
2,4-D			0.0000 BDL
Silvex	5.451	180575	0.0003

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\112219hrb\008.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,LCSW,
Acquired: 11/22/2019 17:18:41
Printed: 11/25/2019 09:26:46

Data Summary: {Data Description}



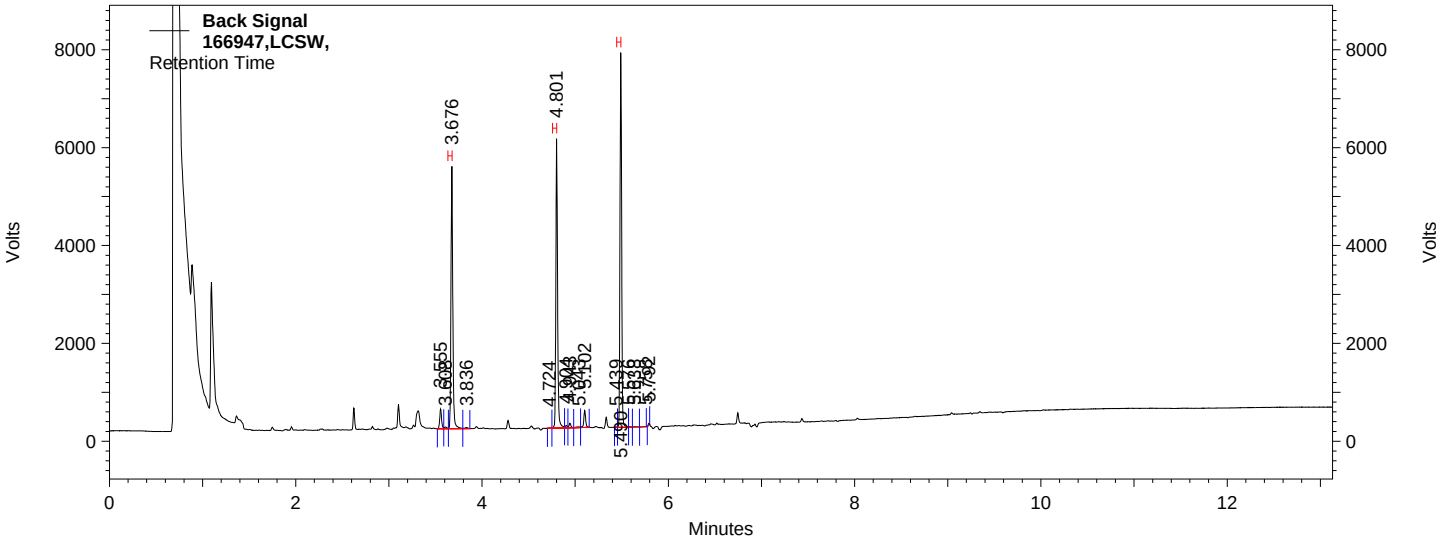
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.067	50470259	87.6540
2,4-D	4.042	55436697	0.4628
Silvex	4.785	73027343	0.0950

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\112219hrb\008.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,LCSW,
Acquired: 11/22/2019 17:18:41
Printed: 11/25/2019 09:26:46

Data Summary: {Data Description}



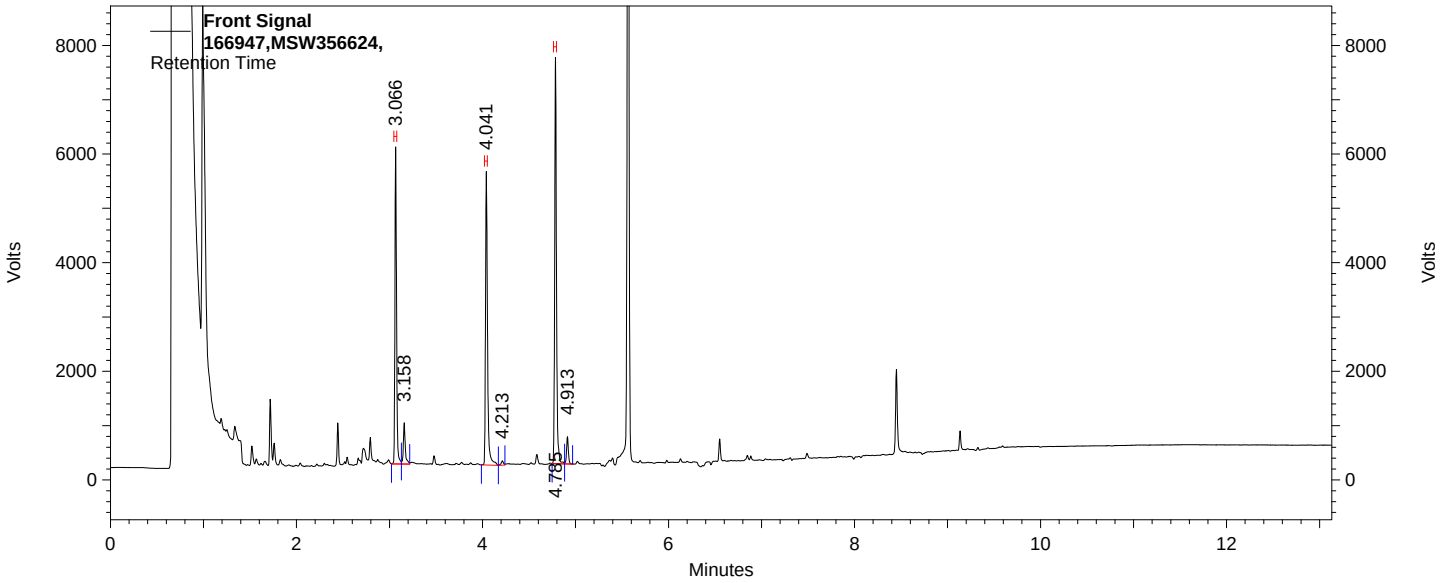
Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.676	56140015	89.6802
2,4-D	4.801	58247066	0.4764
Silvex	5.490	70413742	0.0956

Pesticide Analysis Report *(Channel A)*

Data File: C:\Instarch\Semi6\Data\112219hrb\012.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,MSW356624,
Acquired: 11/22/2019 18:26:01
Printed: 11/25/2019 09:27:03

Data Summary: {Data Description}



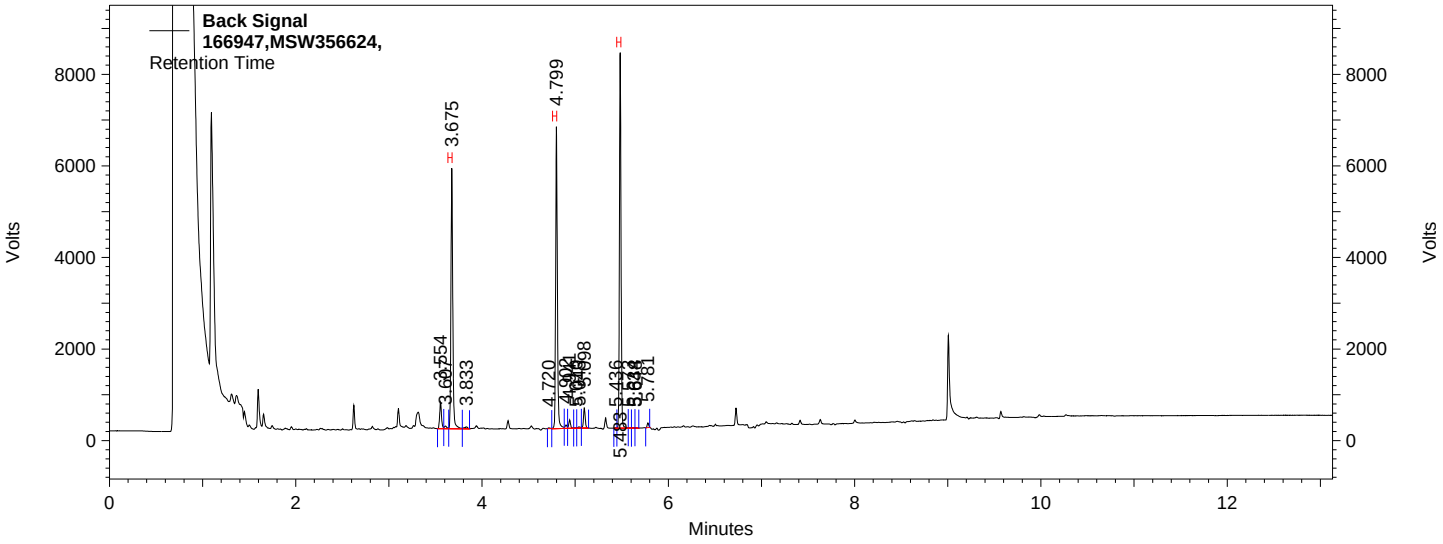
Front Signal Results

Component	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.066	53792390	93.5208
2,4-D	4.041	61887615	0.5171
Silvex	4.785	77022029	0.1002

Pesticide Analysis Report *(Channel B)*

Data File: C:\Instarch\Semi6\Data\112219hrb\012.dat
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
User: JJY
Sample ID: 166947,MSW356624,
Acquired: 11/22/2019 18:26:01
Printed: 11/25/2019 09:27:03

Data Summary: {Data Description}



Back Signal Results

Name	*Retention Time*	*Area Counts*	*Concentration (ug/ml)*
SURRDCAA	3.675	59965838	95.8818
2,4-D	4.799	65047184	0.5321
Silvex	5.483	74133361	0.1006

PESTICIDE/HERBICIDE
LOGBOOK
DOCUMENTS

S PEST Analytical Run
166876 on 11/21/2019

Date Analyzed: _____ JJY Date Reviewed: _____

Date Entered: _____ 12/03/19 Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356218		11/07/2019 1030		HDR, INC	LONGHORN	PESTICIDES QSM TCLP		M	**4**	
		46ADPT-TCLP						74635			
149521	356624		11/07/2019 1700		MAXXAM ANALYTICS	USAFA	PESTICIDES QSM TCLP		M	**4**	
		ACADM-WW-001						74635			
149521	356626		11/07/2019 1700		MAXXAM ANALYTICS	USAFA	PESTICIDES QSM TCLP		M	**4**	
		ACADM-WS-001						74635			
	360323						PESTICIDES QSM TCLP				
				MBW				74635			
	360324						PESTICIDES QSM TCLP				
				LCSW				74635			
	360326		11/07/2019 1700				PESTICIDES QSM TCLP				
		ACADM-WW-001		MSW 356624				74635			

6 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 11/21/2019

Prep Batch **74,635** Date Prepped: 11/20/2019 Prepped By AJZ

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	360323	MBW		PESTICIDES QSM TCLP	LIQUID	10		0.10		
	360324	LCSW		PESTICIDES QSM TCLP	LIQUID	10		0.10		
149511	356218			PESTICIDES QSM TCLP	TCLP	10		0.10	4	
149521	356624			PESTICIDES QSM TCLP	TCLP	10		0.10	4	
	356626			PESTICIDES QSM TCLP	TCLP	10		0.10	4	
	360326	MSW	356624	PESTICIDES QSM TCLP	TCLP	10		0.10		

Notes:_____

Pesticides/PCB Extraction Bench Sheet

(SOP Reference # SV002 & SV004)

3510=WATER
3545=PFE or 3546=Microwave >>
(PFE=Pressurized Fluid Extraction)

Prep Batch #:	74635
Prep Method:	3510/8081
Analyst:	AJZ
Date:	11/20/2019
Start Time:	09:00
End Date:	11/20/2019
End Time:	14:45

Analysis Methods
8081 = Pesticides
8082 = PCBs

Matrix: TCLP
Balance Used: NA
Ave MW Temp (°C): NA

Reagent Lots>>>

NA_2SO_4	MISC0670
Diatomaceous Earth	NA
Dionex Solution	NA
Methylene Chloride	DX645
Acetone	NA
Hexane	DT601
H_2SO_4	NA

Concentration By: JLH
Concentration Date: 11/20/2019

Microwave Cell #	Sample ID	Comments	(Solids) Sample Weight (g)	(Liquids) Sample Volume (L)	Final Volume (ml)	pH Adj. 5-9 (Yes/No)
	360323	MB		0.10	10	Y
	360324	LCS		0.10	10	Y
	356218			0.10	10	Y
	356624	EXTREMELY EMULSIFIED		0.10	10	Y
	356626			0.10	10	Y
	SBLANK 3022			0.10	10	Y
	VBLANK 3022			0.10	10	Y
	T/C LCSW			0.10	10	Y
					10	
					10	
					10	
					10	
					10	
					10	
					10	
					10	
					10	
					10	
					10	
					10	
					10	
					10	
					10	
					10	
	360326	(MS) Parent Sample		0.10	10	Y
		(MSD) 356624			10	

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike, MSD=Matrix Spike Duplicate, Tox=Toxaphene & Chlor=Technical chlordane

MS/MSD/ LCS Spike Amount (ml): 0.5
Spike Concentration (ug/mL): 0.8
Spike Reference #: PP6062

Surrogate Spike Amount (ml): 0.5
Surrogate Spike Conc. (ug/mL): 0.5
Surrogate Spike Reference #: PP6086

Tox/Chlor Spike Amount (ml): 0.5
Tox/Chlor Spike Conc. (ug/mL): 5

Tox/Chlor Spike Reference: PP6072

Relinquished to: JJY
Date: 11/20/2019

Reviewed By: JJY
Date: 11/21/2019

Semi-Volatiles Sample Cleanup Record Sheet

FSV14-02, FSV25-01, FSV26-01, FSV28-01

Prep Batch Number(s): 74635

GPC

Cleanup Performed (Y/N):	N
Date:	
Time:	
Analyst Initials:	
$MeCl_2$ Lot:	

Florisil

Cleanup Performed (Y/N):	N
Date:	
Time:	
Analyst Initials:	
Cartridge I.D. Number:	
Hexane Lot:	
Acetone Lot:	

Acid

Cleanup Performed (Y/N):	N
Date:	
Time:	
Analyst Initials:	
H_2SO_4 Lot:	
Number of treatments:	

Sulfur

Cleanup Performed (Y/N):	Y
Date:	11/21/2019
Time:	16:00
Analyst Initials:	JJY
Copper Lot:	910140-BI

Comments:

8081 Pesticide Analysis Data Review Checklist

Analytical Run #: 166876	**Independent Reviewer: AJZ**
Sequence Date: 11/21/2019	**Date of Review: 11/22/2019**
Analyst/Data Interpreter: JJY	**Approval: Yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the Pesticide initial calibration performed using a minimum of five varying standard concentration levels on two dissimilar columns?	Lowest standard at or near MRL	X		X		
b. Was there initial calibration performed using a minimum of five varying standard concentration levels for Toxaphene and tech-Chlordane.		X		X		
c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or r^2 > 0.990 for the regression line	RSD<20%, r^2>0.990, or r>0.990	X		X		
d. Was each ICAL uniquely identified (i.e. Standard Number)?		X		X		
e. Was an initial calibration blank (ICB) analyzed?		X		X		
f. Was there an Evaluation standard injected prior to initial calibration?	Breakdown ≤15%	X		X		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples?		X		X		
b. Were the recoveries for the ICVs within program limits?	Second source	X		X		
c. Was the ICVs uniquely identified (i.e. Standard Number)?	%Recovery	X		X		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first) and at the end of the analytical run.		X		X		
b. Were there a CCV for Toxaphene and tech-Chlordane at the beginning or at the end of the analytical sequence?		X		X		
c. Were the recoveries for the CCVs within program limits?		X		X		
d. Was each CCV uniquely identified (i.e. Standard Number)?	%Recovery	X		X		

Additional Comments:

8081 Pesticide Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was method blank (MB) analyzed prior to the analysis of samples?		x		x		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount?	In-house limits or client specified limits	x		x		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	x		x		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed prior to the analysis of samples?		x		x		
b. Was there a Toxaphene and tech-Chlordane LCS preformed	Batch <20 samples		x		x	Endrin high recovery. "Q" in samples.
c. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client specified limits	x		x		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	x		x		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client specified limits		x		x	5 low recoveries. "M" parent.
7. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE						
a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a . frequency one per Prep Batch?	Batch <20 samples		x		x	MS only. TCLP method.
b. Were MSD or LCSD recoveries within the acceptance criteria?	In-house limits or client specified limits	na		na		
c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria?	In-house limits or client specified limits	na		na		

Additional Comments:

8081 Pesticide Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		X		X		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?			X		X	See below.
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		X		X		
d. Were all pH checks and adjustments recorded on the sample prep bench sheet?		X		X		
e. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	X		X		
f. Did the samples require additional cleanup steps? (i.e. florisil, GPC, and sulfur treatment)	Florisil, GPC, and/or Sulfur Treatments	X		X		Sulfur.
g. Was there a hexane injection performed prior to sample analysis?		X		X		
h. Was there a priming standard injected prior to sample analysis?		X		X		
i. Was there an Eval standard injected prior to sample analysis and every twelve hours?	Breakdown $\leq$15%	X		X		
9. RECORDS AND REPORTING						
a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transferred to PDF format?		X		X		
b. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed?		X		X		
c. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		X		X		

Additional Comments:

Sample 356624 had low recovery of surrogate DCB. Confirmed in MS. "S".

Summary Report

Instrument I... **Semi 1 (Offline)**
Data Path: **C:\Instarch\Semi1\Sequence\111419pstic.seq**
User ID: **JJY**
Printed Date: **11/14/2019 16:15:48**

JJY
12/03/19

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	EVAL PP6073	001.dat	eval.met	11/14/2019 16:01:04	
2	TC PRIME PP6023 1:10	002.dat	111419tcic.met	11/14/2019 16:17:13	
3	Hex	003.dat	111419tcic.met	11/14/2019 16:33:26	
4	TC ICAL 1 PP6033	004.dat	111419tcic.met	11/14/2019 16:49:42	
5	TC ICAL 2 PP6034	005.dat	111419tcic.met	11/14/2019 17:05:56	
6	TC ICAL 3 PP6035	006.dat	111419tcic.met	11/14/2019 17:22:10	
7	TC ICAL 4 PP6036	007.dat	111419tcic.met	11/14/2019 17:38:32	
8	TC ICAL 5 PP6037	008.dat	111419tcic.met	11/14/2019 17:54:49	
9	not used	009.dat	111419tcic.met	11/14/2019 18:11:11	
10	TC ICV PP6039	010.dat	111419tcic.met	11/14/2019 18:27:30	
11	PEST PRIME PP6021 1:20	011.dat	111419pstic.met	11/14/2019 18:43:48	
12	Hex	012.dat	111419pstic.met	11/14/2019 19:00:07	
13	PEST ICAL 1 PP6024	013.dat	111419pstic.met	11/14/2019 19:16:27	
14	PEST ICAL 2 PP6025	014.dat	111419pstic.met	11/14/2019 19:32:50	
15	PEST ICAL 3 PP6026	015.dat	111419pstic.met	11/14/2019 19:49:14	
16	PEST ICAL 4 PP6027	016.dat	111419pstic.met	11/14/2019 20:05:34	
17	PEST ICAL 5 PP6028	017.dat	111419pstic.met	11/14/2019 20:21:47	
18	PEST ICAL 6 PP6029	018.dat	111419pstic.met	11/14/2019 20:38:07	
19	PEST ICAL 7 PP6030	019.dat	111419pstic.met	11/14/2019 20:54:23	
20	PEST ICV 1 PP6031	020.dat	111419pstic.met	11/14/2019 21:10:40	
21	PEST ICV 2 PP6032	021.dat	111419pstic.met	11/14/2019 21:26:56	
22	Hex	022.dat	111419pstic.met	11/14/2019 21:43:20	
23	PEST CCV PP6040	023.dat	111419pstic.met	11/14/2019 21:59:35	
24	TC CCV PP6041	024.dat	111419tcic.met	11/14/2019 22:15:57	
25	Hex	025.dat	111419pstic.met	11/14/2019 22:32:16	
26	166576,MBW,	026.dat	111419pstic.met	11/14/2019 22:48:38	
27	166576,LCSW,	027.dat	111419pstic.met	11/14/2019 23:04:58	
28	166576,LCSW TC	028.dat	111419tcic.met	11/14/2019 23:21:16	
29	Hex	029.dat	111419pstic.met	11/14/2019 23:37:39	
30	166576,354346,	030.dat	111419pstic.met	11/14/2019 23:53:59	
31	166576,354347,	031.dat	111419pstic.met	11/15/2019 00:10:13	
32	166576,354348,	032.dat	111419pstic.met	11/15/2019 00:26:25	
33	166576,MSW354348,	033.dat	111419pstic.met	11/15/2019 00:42:41	
34	166576,MSDW354348,	034.dat	111419pstic.met	11/15/2019 00:58:49	
35	Hex	035.dat	111419pstic.met	11/15/2019 01:15:04	
36	PEST CCV PP6040	036.dat	111419pstic.met	11/15/2019 01:31:24	
37	TC CCV PP6041	037.dat	111419tcic.met	11/15/2019 01:47:40	
38	Hex	038.dat	111419pstic.met	11/15/2019 02:03:56	

Summary Report

JJY
12/03/19

Instrument I... **Semi 1 (Offline)**
Data Path: **C:\Instarch\Semi1\Sequence\112119pst.seq**
User ID: **JJY**
Printed Date: **11/22/2019 10:11:39**

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	EVAL PP6073	001.dat	eval.met	11/21/2019 17:03:23	
2	PEST PRIME PP6021 1:20	002.dat	112119pst.met	11/21/2019 17:19:30	
3	Hex	003.dat	112119pst.met	11/21/2019 17:35:44	
4	PEST CCV PP6040	004.dat	112119pst.met	11/21/2019 17:51:59	
5	TC CCV PP6041	005.dat	112119tcic.met	11/21/2019 18:08:14	
6	Hex	006.dat	112119pst.met	11/21/2019 18:24:30	
7	166876,MBTS,	007.dat	112119pst.met	11/21/2019 18:40:49	
8	166876,MBTV,	008.dat	112119pst.met	11/21/2019 18:57:06	
9	166876,MBW,	009.dat	112119pst.met	11/21/2019 19:13:24	
10	166876,LCSW,	010.dat	112119pst.met	11/21/2019 19:29:41	
11	166876,LCSW TC	011.dat	112119tcic.met	11/21/2019 19:46:02	
12	Hex	012.dat	112119pst.met	11/21/2019 20:02:25	
13	166876,356218,10	013.dat	112119pst.met	11/21/2019 20:18:48	
14	Hex	014.dat	112119pst.met	11/21/2019 20:35:10	
15	166876,356626,	015.dat	112119pst.met	11/21/2019 20:51:31	
16	166876,356624,	016.dat	112119pst.met	11/21/2019 21:07:46	
17	166876,MSW356624,	017.dat	112119pst.met	11/21/2019 21:24:01	
18	Hex	018.dat	112119pst.met	11/21/2019 21:40:15	
19	PEST CCV PP6040	019.dat	112119pst.met	11/21/2019 21:56:32	
20	TC CCV PP6041	020.dat	112119tcic.met	11/21/2019 22:12:45	
21	Hex	021.dat	112119pst.met	11/21/2019 22:29:03	
22	166876,356218,	022.dat	112119pst.met	11/21/2019 22:45:22	
23	Hex	023.dat	112119pst.met	11/21/2019 23:01:39	
24	PEST CCV PP6040	024.dat	112119pst.met	11/21/2019 23:18:02	
25	TC CCV PP6041	025.dat	112119tcic.met	11/21/2019 23:34:21	
26	Hex	026.dat	112119pst.met	11/21/2019 23:50:41	

PEST-PCB-LOGBOOK-02

SV Prep Logbook

Logbook created: 09/21/17

NOTEBOOK VIEW: LTN_PEST_PCB_LOGBOOK_02_Default, NOTEBOOK: PEST_PCB_LOGBOOK_02, PAGE: 56

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Project: Unassigned

Page Title: 073019

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6020	Pest ICAL Stock	Hexane ChemPure lot DS721	JJY	07/30/2019	01/30/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4114	200	ug/ml	0.100	10.0	2.00
S3940E	200	ug/ml	0.0625	10.0	1.25

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6021	Pest ICV Stock	Hexane ChemPure lot DS721	JJY	07/30/2019	01/30/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4115	200	ug/ml	0.100	10.0	2.00
S3940E	200	ug/ml	0.0625	10.0	1.25

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6022	Tox/chlor Stock	Hexane ChemPure lot DS721	JJY	07/30/2019	01/30/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4110	1000	ug/ml	0.100	10.0	10.0
S4112	1000	ug/ml	0.100	10.0	10.0
S3940E	200	ug/ml	0.030	10.0	0.60

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6023	Tox/chlor ICV Stock	Hexane ChemPure lot DS721	JJY	07/30/2019	01/30/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4111	1000	ug/ml	0.100	10.0	10.0
S4113	1000	ug/ml	0.100	10.0	10.0
S3940E	200	ug/ml	0.030	10.0	0.60

	Initial Calibration	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
	Pest Tox/chlor ICAL	Hexane ChemPure lot DS721	JJY	07/30/2019	01/30/2020

Standard Number	Standard Description	Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
PP6024	PEST ICAL PT 1	PP6020	2.0	ug/ml	0.005	10.0	0.001
PP6025	PEST ICAL PT 2	PP6020	2.0	ug/ml	0.025	10.0	0.005
PP6026	PEST ICAL PT 3	PP6020	2.0	ug/ml	0.050	10.0	0.010
PP6027	PEST ICAL PT 4	PP6020	2.0	ug/ml	0.100	10.0	0.020
PP6028	PEST ICAL PT 5	PP6020	2.0	ug/ml	0.200	10.0	0.040
PP6029	PEST ICAL PT 6	PP6020	2.0	ug/ml	0.250	10.0	0.050
PP6030	PEST ICAL PT 7	PP6020	2.0	ug/ml	0.350	10.0	0.070
PP6031	PEST ICV	PP6021	2.0	ug/ml	0.100	10.0	0.020
PP6032	PEST ICV 2	PP6021	2.0	ug/ml	0.200	10.0	0.040
PP6033	TOX/CHLOR PT 1	PP6022	10.0	ug/ml	0.030	10.0	0.030
PP6034	TOX/CHLOR PT 2	PP6022	10.0	ug/ml	0.050	10.0	0.050
PP6035	TOX/CHLOR PT 3	PP6022	10.0	ug/ml	0.100	10.0	0.100
PP6036	TOX/CHLOR PT 4	PP6022	10.0	ug/ml	0.250	10.0	0.250
PP6037	TOX/CHLOR PT 5	PP6022	10.0	ug/ml	0.400	10.0	0.400
PP6038	TOX/CHLOR PT 6	PP6022	10.0	ug/ml	0.600	10.0	0.600
PP6039	TOX/CHLOR ICV	PP6023	10.0	ug/ml	0.250	10.0	0.250
PP6040	PEST CCV	PP6020	2.0	ug/ml	0.200	10.0	0.040
PP6041	TOX/CHLOR CCV	PP6022	10.0	ug/ml	0.250	10.0	0.250

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6042	Pest Surrogates 2 ug/ml	Hexane ChemPure lot DS721	JJY	07/30/2019	01/30/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S3940E	200	ug/ml	0.100	10.0	2.0

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6043	FM BP-6 Stock	Hexane ChemPure lot DS721	JJY	07/30/2019	01/08/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S3323B	100	ug/ml	1.00	10.0	10.0
S3940E	200	ug/ml	0.025	10.0	0.50

	Initial Calibration	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
	FM BP-6 ICAL	Hexane ChemPure lot DS721	JJY	07/30/2019	01/08/2020

Standard Number	Standard Description	Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
PP6044	FM BP-6 ICAL 1	PP6043	10.0	ug/ml	0.010	10.0	0.01
PP6045	FM BP-6 ICAL 2	PP6043	10.0	ug/ml	0.050	10.0	0.05
PP6046	FM BP-6 ICAL 3	PP6043	10.0	ug/ml	0.100	10.0	0.10
PP6047	FM BP-6 ICAL 4	PP6043	10.0	ug/ml	0.200	10.0	0.20
PP6048	FM BP-6 ICAL 5	PP6043	10.0	ug/ml	0.400	10.0	0.40
PP6049	FM BP-6 ICAL 6	PP6043	10.0	ug/ml	0.600	10.0	0.60
PP6050	FM BP-6 CCV	PP6043	10.0	ug/ml	0.200	10.0	0.20

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6051	FM BP-6 ICV	Hexane ChemPure lot DS721	JJY	07/30/2019	01/30/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4128A	100	ug/ml	0.020	10.0	0.20
PP6042	2.0	ug/ml	0.050	10.0	0.01

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6052	HBB ICAL Stock	Hexane ChemPure lot DS721	JJY	07/30/2019	01/30/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
PP6004	25	ug/ml	0.800	10.0	2.0
S3940E	200	ug/ml	0.0625	10.0	1.25

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6053	HBB ICV Stock	Hexane ChemPure lot DS721	JJY	07/30/2019	01/30/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4127	100	ug/ml	0.200	10.0	2.0
S3940E	200	ug/ml	0.0625	10.0	1.25

	Initial Calibration	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
	HBB ICAL	Hexane ChemPure lot DS721	JJY	07/30/2019	01/30/2020

Standard Number	Standard Description	Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
PP6054	HBB ICAL 1	PP6052	2.0	ug/ml	0.005	10.0	0.001
PP6055	HBB ICAL 2	PP6052	2.0	ug/ml	0.025	10.0	0.005
PP6056	HBB ICAL 3	PP6052	2.0	ug/ml	0.050	10.0	0.010
PP6057	HBB ICAL 4	PP6052	2.0	ug/ml	0.100	10.0	0.020
PP6058	HBB ICAL 5	PP6052	2.0	ug/ml	0.200	10.0	0.040
PP6059	HBB ICAL 6	PP6052	2.0	ug/ml	0.300	10.0	0.060
PP6060	HBB ICV	PP6053	2.0	ug/ml	0.100	10.0	0.020
PP6061	HBB CCV	PP6052	2.0	ug/ml	0.100	10.0	0.020

1

PEST-PCB-LOGBOOK-02

SV Prep Logbook

Logbook created: 09/21/17

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Author: azurfluh on: 8/14/2019 9:36:58 AM
Witness: jyoder on: 8/15/2019 1:13:02 PM
Project: Unassigned
Page Title: 081419

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6062	Pesticide Spike	Acetone ChemPure Lot DR774	AJZ	08/14/2019	02/14/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4114	200	ug/mL	0.200	50.0	0.80

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CT Laboratories, LLC

PEST-PCB-LOGBOOK-02

SV Prep Logbook

Logbook created: 09/21/17

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Project: Unassigned
Page Title: 100719

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6072	Tox/Chlor Spike	Acetone ChemPure Lot DR774	AJZ	10/07/2019	04/07/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4110	1000	ug/mL	0.250	50.0	5.0
S4112	1000	ug/mL	0.250	50.0	5.0

1

PEST-PCB-LOGBOOK-02

SV Prep Logbook

Logbook created: 09/21/17

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Author: azurfluh on: 10/9/2019 10:55:54 AM
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Project: Unassigned
Page Title: 100919

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6073	Pest EVAL Solution	Hexane ChemPure Lot DT601	AJZ	10/09/2019	04/08/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4160	200	ug/mL	0.010	50.0	0.040

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CT Laboratories, LLC

PEST-PCB-LOGBOOK-02

SV Prep Logbook

Logbook created: 09/21/17

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Page Title: 111819

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6084	Pest/PCB Surrogate	Acetone ChemPure lot DU033-US	JJY	11/18/2019	05/18/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S3940C	200	ug/ml	0.250	100	0.500

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6085	Pest/PCB Surrogate	Acetone ChemPure lot DU033-US	JJY	11/18/2019	05/18/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S3940C	200	ug/ml	0.250	100	0.500

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6086	Pest/PCB Surrogate	Acetone ChemPure lot DU033-US	JJY	11/18/2019	05/18/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S3940C	200	ug/ml	0.250	100	0.500

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6087	Pest/PCB Surrogate	Acetone ChemPure lot DU033-US	JJY	11/18/2019	05/18/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S3940C	200	ug/ml	0.250	100	0.500

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6088	PCB Spike	Acetone ChemPure lot DU033-US	JJY	11/18/2019	03/12/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S3883D	1000	ug/ml	0.500	50.0	10.0
S3884D	1000	ug/ml	0.500	50.0	10.0

1

CT Laboratories, LLC

S HERBICIDES TCLP Analytical Run
166947 on 11/22/2019

Date Analyzed: _____ JJY 12/03/19 Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356218		11/07/2019 1030		HDR, INC	LONGHORN	HERBICIDES TCLP QSM 5		M	**4**	
		46ADPT-TCLP						74634			
149521	356624		11/07/2019 1700		MAXXAM ANALYTICS	USAFA	HERBICIDES TCLP QSM 5		M	**4**	
		ACADM-WW-001						74634			
149521	356626		11/07/2019 1700		MAXXAM ANALYTICS	USAFA	HERBICIDES TCLP QSM 5		M	**4**	
		ACADM-WS-001						74634			
	360319						HERBICIDES TCLP QSM 5				
				MBW				74634			
	360320						HERBICIDES TCLP QSM 5				
				LCSW				74634			
	360327		11/07/2019 1700				HERBICIDES TCLP QSM 5				
		ACADM-WW-001		MSW 356624				74634			

6 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 11/22/2019

Prep Batch **74,634** Date Prepped: 01/01/1900 Prepped By JLH

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	360319	MBW		HERBICIDES TCLP QSM	LIQUID	10		0.10		
	360320	LCSW		HERBICIDES TCLP QSM	LIQUID	10		0.10		
149511	356218			HERBICIDES TCLP QSM	TCLP	10		0.10	4	
149521	356624			HERBICIDES TCLP QSM	TCLP	10		0.10	4	
	356626			HERBICIDES TCLP QSM	TCLP	10		0.10	4	
	360327	MSW	356624	HERBICIDES TCLP QSM	TCLP	10		0.10		

Notes:_____

Herbicide Extraction Bench Sheet

(SOP Reference # SV029)

Prep Batch #:	74634
Analyst:	JLH
Start Date:	11/22/2019
Start Time:	08:00
End Date:	11/22/2019
End Time:	14:45

Prep/Analysis Method
EPA 8151A

Matrix: TCLP
TCLP Batch #: 3022

Reagent Lots>>>

Acidified Na_2SO_4	MISC0517
2% Na_2SO_4 solution:	MISC0566
Ether:	188071
Hexane:	DT601
BF_3-methanol:	A0379837
H_2SO_4:	MISC0634

Concentrated by: JLH
Concentration Date: 11/22/2019

Derivatized by: JLH
Derivatization Date: 11/22/2019

Sample ID	Comments		(Liquids) Sample Volume (L)	Final Volume (ml)	pH Adj. <2 (Yes/No)
360319	(MB)		0.10	10	Y
360320	(LCS)		0.10	10	Y
3022	(SB)		0.10	10	Y
3022	(VB)		0.10	10	Y
356218			0.10	10	Y
356624			0.10	10	Y
356626			0.10	10	Y
360327	(MS)		0.10	10	Y
	(MS)	356624			

MB=method blank, LCS=laboratory control sample, SB=solution blank, VB=vessel blank, MS=matrix spike

Spike Amount (ml): 1
Spike Concentration (ug/mL): 5.0/1.0
Spike Reference #: PP6075

Surrogate Spike Amount (ml): 1
Surrogate Spike Conc. (ug/mL): 5
Surrogate Spike Reference #: PP6074

Relinquished to: JJY
Date: 11/22/2019

Reviewed By: JJY
Date: 11/22/2019

FSV29-02

8151A Herbicide Analysis Data Review Checklist

Analytical Run #: 166947	**Independent Reviewer: AJZ**
Sequence Date: 11/22/2019	**Date of Review: 11/25/2019**
Analyst/Data Interpreter: JJY	**Approval: Yes**

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirements:	Acceptance Criteria	Analyst Review		Independent Review		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
1. INITIAL CALIBRATION (ICAL)						
a. Was the initial calibration performed using a minimum of five varying standard concentration levels on two dissimilar columns?	Lowest standard at or near MRL	X		X		
b. Is the variation between calibration response factors for all concentration levels <20% RSD, is r^2 >.990, or r > 0.990 for the regression line?	RSD<20%, r^2>0.990, or r>0.990	X		X		
c. Was each ICAL uniquely identified (i.e. Standard Number)?		X		X		
d. Was an initial calibration blank (ICB, hexane) analyzed?		X		X		
2. INITIAL CALIBRATION VERIFICATION (ICV)						
a. Was a second source ICV analyzed after the initial calibration and prior to analysis of any samples?	second lot or manufacturer	X		X		
b. Were the recoveries for the ICVs within program limits?	% recovery	X		X		
c. Was the ICVs uniquely identified (i.e. Standard Number)?		X		X		
3. CONTINUING CALIBRATION VERIFICATION (CCV)						
a. Were CCVs analyzed at the beginning of the sequence, after every 12 hours or every 10 samples (which ever comes first) and at the end of the analytical run?		X		X		
b. Were the recoveries for the CCVs within program limits?	% recovery	X		X		
c. Was each CCV uniquely identified (i.e. Standard Number)?		X		X		

Additional Comments:

Analytical Run #: 166947

FSV29-02

8151A Herbicide Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
4. BLANKS						
a. Was the method blank (MB) analyzed prior to the analysis of samples?		X		X		
b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount?	In-house limits or client specified limits	X		X		
c. Was a MB prepped and analyzed at a frequency of one per Prep Batch?	Batch <20 samples	X		X		
5. LABORATORY CONTROL SAMPLE (LCS)						
a. Was a LCS analyzed at a frequencey of one per Prep Batch?	Batch <20 samples	X		X		
b. Were the LCS recoveries in each LCS within the acceptance criteria?	In-house limits or client, program, or project-specified limits	X		X		
6. MATRIX SPIKES						
a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch?	Batch <20 samples	X		X		
b. Were MS recoveries in each MS within the acceptance criteria?	In-house limits or client, program, or project-specified limits	X		X		

Additional Comments:

Analytical Run #: 166947

FSV29-02

8151A Herbicide Analysis Data Review Checklist

Requirements:	Acceptance Criteria	Analyst		Independent		Comments (indicate reference to an attachment if necessary)
		Yes	No	Yes	No	
7. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)						
a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		X		X		
b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria?	In-house limits or client, program, or project-specified limits	X		X		
c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed?		X		X		
d. Were all samples extracted within holding times and analyzed within 40 days of extracting?	Analysis within 40 days of extraction	X		X		
e. Was there a hexane injection performed prior to sample analysis?		X		X		
9. RECORDS AND REPORTING						
a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transfered to PDF format?		X		X		
b. Are all manually integrated chromatograms stamped with initials and date?		X		X		
c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed?		X		X		
d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data?		X		X		
e. Is the ICAL method referenced on the Raw Data?		X		X		

Additional Comments:

Summary Report

Instrument I... **Semi 6**
Data Path: **C:\Instarch\Semi6\Sequence\110719hrbic.seq**
User ID: **AJZ**
Printed Date: **Nov 08, 2019 10:42:14**

JJY
11/21/19

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	Hex	001.dat	110719hrbic.met	Nov 07, 2019 13:31:18	
2	AH PRIME PP5887 1:10	002.dat	110719hrbic.met	Nov 07, 2019 13:48:02	
3	Hex	003.dat	110719hrbic.met	Nov 07, 2019 14:04:47	
4	AH ICAL 1 PP 6076	004.dat	110719hrbic.met	Nov 07, 2019 14:21:31	
5	AH ICAL 2 PP 6077	005.dat	110719hrbic.met	Nov 07, 2019 14:38:21	
6	AH ICAL 3 PP 6078	006.dat	110719hrbic.met	Nov 07, 2019 14:55:09	
7	AH ICAL 4 PP 6079	007.dat	110719hrbic.met	Nov 07, 2019 15:11:54	
8	AH ICAL 5 PP 6080	008.dat	110719hrbic.met	Nov 07, 2019 15:28:43	
9	AH ICAL 6 PP 6081	009.dat	110719hrbic.met	Nov 07, 2019 15:45:37	
10	AH ICV PP 6082	010.dat	110719hrbic.met	Nov 07, 2019 16:02:29	
11	AH CCV PP 6083	011.dat	110719hrbic.met	Nov 07, 2019 16:19:20	
12	Hex	012.dat	110719hrbic.met	Nov 07, 2019 16:36:09	
13	166359,MBW,	013.dat	110719hrbic.met	Nov 07, 2019 16:52:57	
14	166359,LCSW,	014.dat	110719hrbic.met	Nov 07, 2019 17:09:45	
15	166359,336423,10	015.dat	110719hrbic.met	Nov 07, 2019 17:26:30	
16	166359,336423,	016.dat	110719hrbic.met	Nov 07, 2019 17:43:12	M.I. Index Key Reason #...
17	166359,LCSDW,	017.dat	110719hrbic.met	Nov 07, 2019 18:00:02	
18	Hex	018.dat	110719hrbic.met	Nov 07, 2019 18:16:50	
19	AH CCV PP 6083	019.dat	110719hrbic.met	Nov 07, 2019 18:33:43	
20	Hex	020.dat	110719hrbic.met	Nov 07, 2019 18:50:32	
21	166358,MBW,	021.dat	110719hrbic.met	Nov 07, 2019 19:07:26	
22	166358,LCSW,	022.dat	110719hrbic.met	Nov 07, 2019 19:24:18	
23	166358,348125,10	023.dat	110719hrbic.met	Nov 07, 2019 19:41:07	
24	166358,MSW348125,10	024.dat	110719hrbic.met	Nov 07, 2019 19:57:54	M.I. Index Key Reason #...
25	Hex	025.dat	110719hrbic.met	Nov 07, 2019 20:14:44	
26	AH CCV PP 6083	026.dat	110719hrbic.met	Nov 07, 2019 20:31:30	
27	Hex	027.dat	110719hrbic.met	Nov 07, 2019 20:48:17	
28	166357,MBTS1,	028.dat	110719hrbic.met	Nov 07, 2019 21:05:16	
29	166357,MBTS2,	029.dat	110719hrbic.met	Nov 07, 2019 21:22:10	
30	166357,MBTV1,	030.dat	110719hrbic.met	Nov 07, 2019 21:38:56	
31	166357,MBTV2,	031.dat	110719hrbic.met	Nov 07, 2019 21:55:41	
32	166357,MBW,	032.dat	110719hrbic.met	Nov 07, 2019 22:12:26	
33	166357,LCSW,	033.dat	110719hrbic.met	Nov 07, 2019 22:29:16	
34	166357,347017,10	034.dat	110719hrbic.met	Nov 07, 2019 22:46:02	
35	166357,347019,10	035.dat	110719hrbic.met	Nov 07, 2019 23:02:47	
36	166357,347015,10	036.dat	110719hrbic.met	Nov 07, 2019 23:19:32	
37	166357,MSW347015,10	037.dat	110719hrbic.met	Nov 07, 2019 23:36:22	
38	Hex	038.dat	110719hrbic.met	Nov 07, 2019 23:53:08	
39	AH CCV PP 6083	039.dat	110719hrbic.met	Nov 08, 2019 00:09:53	
40	Hex	040.dat	110719hrbic.met	Nov 08, 2019 00:26:38	
41	166357,347021,10	041.dat	110719hrbic.met	Nov 08, 2019 00:43:28	
42	166357,347025,10	042.dat	110719hrbic.met	Nov 08, 2019 01:00:10	
43	166357,347029,10	043.dat	110719hrbic.met	Nov 08, 2019 01:16:57	
44	Hex	044.dat	110719hrbic.met	Nov 08, 2019 01:33:39	
45	166357,347027,100	045.dat	110719hrbic.met	Nov 08, 2019 01:50:30	
46	Hex	046.dat	110719hrbic.met	Nov 08, 2019 02:07:20	
47	166357,347023,100	047.dat	110719hrbic.met	Nov 08, 2019 02:24:05	
48	Hex	048.dat	110719hrbic.met	Nov 08, 2019 02:40:48	
49	AH CCV PP 6083	049.dat	110719hrbic.met	Nov 08, 2019 02:57:42	
50	Hex	050.dat	110719hrbic.met	Nov 08, 2019 03:14:28	
51	Hex	051.dat	110719hrbic.met	Nov 08, 2019 12:05:20	
52	AH CCV PP 6083	052.dat	110719hrbic.met	Nov 08, 2019 12:22:04	
53	Hex	053.dat	110719hrbic.met	Nov 08, 2019 12:38:47	
54	166357,347017,	054.dat	110719hrbic.met	Nov 08, 2019 12:55:34	
55	166357,347021,	055.dat	110719hrbic.met	Nov 08, 2019 13:12:21	
56	166357,347029,	056.dat	110719hrbic.met	Nov 08, 2019 13:29:12	
57	166357,347027,10	057.dat	110719hrbic.met	Nov 08, 2019 13:46:03	M.I. Index Reason #4 AJ...
58	Hex	058.dat	110719hrbic.met	Nov 08, 2019 14:02:54	
59	AH CCV PP 6083	059.dat	110719hrbic.met	Nov 08, 2019 14:19:50	
60	Hex	060.dat	110719hrbic.met	Nov 08, 2019 14:36:39	

Summary Report

Instrument I... **Semi 6**
Data Path: **C:\Instarch\Semi6\Sequence\112219hrb.seq**
User ID: **JJY**
Printed Date: **11/25/2019 09:05:32**

JJY
12/03/19

Run Number	Sample ID	Data Filename	Method Filename	Analysis Date	Data Description
1	AH PRIME PP5887 1:10	001.dat	112219hrb.met	11/22/2019 15:21:03	
2	Hex	002.dat	112219hrb.met	11/22/2019 15:37:45	
3	AH CCV PP 6083	003.dat	112219hrb.met	11/22/2019 15:54:32	
4	Hex	004.dat	112219hrb.met	11/22/2019 16:11:17	
5	166947,MBTS,	005.dat	112219hrb.met	11/22/2019 16:28:07	
6	166947,MBTV,	006.dat	112219hrb.met	11/22/2019 16:44:56	
7	166947,MBW,	007.dat	112219hrb.met	11/22/2019 17:01:45	
8	166947,LCSW,	008.dat	112219hrb.met	11/22/2019 17:18:41	
9	166947,356218,	009.dat	112219hrb.met	11/22/2019 17:35:32	
10	166947,356626,	010.dat	112219hrb.met	11/22/2019 17:52:16	
11	166947,356624,	011.dat	112219hrb.met	11/22/2019 18:09:05	
12	166947,MSW356624,	012.dat	112219hrb.met	11/22/2019 18:26:01	
13	Hex	013.dat	112219hrb.met	11/22/2019 18:42:47	
14	AH CCV PP 6083	014.dat	112219hrb.met	11/22/2019 18:59:35	
15	Hex	015.dat	112219hrb.met	11/22/2019 19:16:22	

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP5887	Acid Herbicide Stock (Derivatized)	Hexane ChemPure Lot DS721	AJZ	01/30/2019	01/30/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S3921B	1000	ug/mL	0.100	10.0	10.0
S3920B	1000	ug/mL	0.100	10.0	10.0
S3919B	1000	ug/mL	0.020	10.0	2.00

1

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PEST-PCB-LOGBOOK-02
SV Prep Logbook
Logbook created: 09/21/17
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Project: Unassigned
Page Title: 040519

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP5925	Acid Herbicide Surrogate	Acetone ChemPure Lot DR774	AJZ	04/05/2019	06/05/2019

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4031A	1000	ug/mL	0.250	50.0	5.0

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP5926	Acid Herbicide Spike	Acetone ChemPure Lot DR774	AJZ	04/05/2019	06/05/2019

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4030A	1000	ug/mL	0.050	50.0	1.0
S4029A	1000	ug/mL	0.250	50.0	5.0

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP5927	Acid Herbicide Stock (Derivatized)	Hexane ChemPure Lot DT601	AJZ	04/05/2019	06/05/2019

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4031A	1000	ug/mL	0.100	10.0	10.0
S4029A	1000	ug/mL	0.100	10.0	10.0
S4030A	1000	ug/mL	0.020	10.0	2.00

1

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PEST-PCB-LOGBOOK-02
SV Prep Logbook
Logbook created: 09/21/17
NOTEBOOK VIEW: LTN_PEST_PCB_LOGBOOK_02_Default, NOTEBOOK: PEST_PCB_LOGBOOK_02, PAGE: 63
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Author: azurfluh on: 11/4/2019 8:10:41 AM
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Project: Unassigned
Page Title: 110419

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6074	Acid Herbicide Surrogate	Acetone ChemPure Lot DR774	AJZ	11/04/2019	01/04/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4031B	1000	ug/mL	0.250	0.500	5.0

Standard Number	Standard Description	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
PP6075	Acid Herbicide Spike	Acetone ChemPure Lot DR774	AJZ	11/04/2019	01/04/2020

STD Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
S4030B	1000	ug/mL	0.050	50.0	1.0
S4029B	1000	ug/mL	0.250	50.0	5.0

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CT Laboratories, LLC

PEST-PCB-LOGBOOK-02

SV Prep Logbook

Logbook created: 09/21/17

NOTEBOOK VIEW: LTN_PEST_PCB_LOGBOOK_02_Default, NOTEBOOK: PEST_PCB_LOGBOOK_02, PAGE: 64

Page is Unlocked

Page is not Witnessed

Project: Unassigned

Page Title: 110719

	PCB CURVE	Solvent Manufacturer Lot	Analyst	Prep Date	Expiration Date
	Acid Herbicide ICAL	Hexane ChemPure lot DT601	JJY	11/07/2019	01/30/2020

Standard Number	Standard Description	Parent ID	Parent Concentration	Units	Standard Volume (ml)	Final Volume (ml)	Final Concentration (ug/ml)
PP6076	AH ICAL PT 1	PP5927	10.0/2.0	ug/ml	0.020	10.0	0.02/0.004
PP6077	AH ICAL PT 2	PP5927	10.0/2.0	ug/ml	0.050	10.0	0.05/0.01
PP6078	AH ICAL PT 3	PP5927	10.0/2.0	ug/ml	0.200	10.0	0.20/0.04
PP6079	AH ICAL PT 4	PP5927	10.0/2.0	ug/ml	0.500	10.0	0.50/0.10
PP6080	AH ICAL PT 5	PP5927	10.0/2.0	ug/ml	0.700	10.0	0.70/0.14
PP6081	AH ICAL PT 6	PP5927	10.0/2.0	ug/ml	1.000	10.0	1.00/0.20
PP6082	AH ICV	PP5887	10.0/2.0	ug/ml	0.500	10.0	0.50/0.10
PP6083	AH CCV	PP5927	10.0/2.0	ug/ml	0.500	10.0	0.50/0.10

1

CT Laboratories, LLC

METALS
CLP FORMS
DOCUMENTS

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	TCLP	SDG No.:	149511
% Solids:		Lab Sample ID:	356218
Analytical Method:	EPA 6010C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	11/16/2019 09:10
Analytical Run #:	166766	Analysis Date/Time	11/21/2019 07:44
Analytical Prep Batch #:	74587	Prep. Date/Time:	11/19/2019 14:44
ICAL Calibration #:		Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7440-38-2	Arsenic	0.012	U		0.0040	0.012	0.024	0.024
7440-39-3	Barium	0.44			0.00029	0.00090	0.0018	0.0018
7440-43-9	Cadmium	0.00039	J		0.00030	0.0010	0.0020	0.0020
7440-47-3	Chromium	0.0013	J		0.00060	0.0020	0.0040	0.0040
7439-92-1	Lead	0.017			0.0014	0.0020	0.0040	0.0040
7782-49-2	Selenium	0.011	J	M	0.0022	0.0065	0.013	0.013
7440-22-4	Silver	0.0020	U		0.00070	0.0020	0.0040	0.0040

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	TCLP	SDG No.:	149511
% Solids:		Lab Sample ID:	356218
Analytical Method:	EPA 7470A	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	11/16/2019 09:10
Analytical Run #:	166905	Analysis Date/Time	11/22/2019 16:43
Analytical Prep Batch #:	74586	Prep. Date/Time:	11/21/2019 10:02
ICAL Calibration #:	11222019	Concentration Units:	mg/L

CAS #	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
7439-97-6	Mercury	0.000060	U	M	0.00003	0.00006	0.00012	0.00012

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363339

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	11/22/19 13:04	0.00300	0.00300	100	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No.

ICV

2A-1

INITIAL CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363217

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	11/20/19	11:24	2.00	1.93	96	90	110
Barium	11/20/19	11:24	2.00	2.00	100	90	110
Cadmium	11/20/19	11:24	0.0500	0.0478	96	90	110
Chromium	11/20/19	11:24	0.200	0.196	98	90	110
Lead	11/20/19	11:24	0.500	0.489	98	90	110
Selenium	11/20/19	11:24	2.00	1.93	96	90	110
Silver	11/20/19	11:24	0.0500	0.0510	102	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No.

LLQC

2A-1

LOWER LIMIT OF QUANTITATION CHECK (LLQC)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363218

ICAL Calibration #: Concentration Units:

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	11/20/19	11:30	0.0600	0.0666	111	80	120
Barium	11/20/19	11:30	0.0300	0.0337	112	80	120
Cadmium	11/20/19	11:30	0.0150	0.0174	116	80	120
Chromium	11/20/19	11:30	0.0300	0.0323	108	80	120
Lead	11/20/19	11:30	0.0300	0.0330	110	80	120
Selenium	11/20/19	11:30	0.0600	0.0708	118	80	120

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No.

LLQC

2A-1

LOWER LIMIT OF QUANTITATION CHECK (LLQC)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363222

ICAL Calibration #: Concentration Units:

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Silver	11/20/19	12:15	0.0100	0.00880	88	80	120

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV High Level

2A-2

CONTINUING CALIBRATION VERIFICATION (LEVEL 1 - HIGH RANGE)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363223

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	11/21/19	05:56	5.00	5.16	103	90	110
Barium	11/21/19	05:56	5.00	4.87	97	90	110
Cadmium	11/21/19	05:56	0.500	0.545	109	90	110
Chromium	11/21/19	05:56	5.00	4.94	99	90	110
Lead	11/21/19	05:56	5.00	5.16	103	90	110
Selenium	11/21/19	05:56	5.00	5.45	109	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV Low Level

2A-2

CONTINUING CALIBRATION VERIFICATION (LEVEL 2 - LOW RANGE)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363224

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	11/21/19	06:02	0.500	0.524	105	90	110
Barium	11/21/19	06:02	0.500	0.541	108	90	110
Cadmium	11/21/19	06:02	0.0500	0.0496	99	90	110
Chromium	11/21/19	06:02	0.500	0.550	110	90	110
Lead	11/21/19	06:02	0.500	0.543	109	90	110
Selenium	11/21/19	06:02	0.500	0.508	102	90	110
Silver	11/21/19	06:02	0.0500	0.0514	103	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV High Level

2A-2

CONTINUING CALIBRATION VERIFICATION (LEVEL 1 - HIGH RANGE)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363226

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	11/21/19	07:19	5.00	5.13	103	90	110
Barium	11/21/19	07:19	5.00	4.83	97	90	110
Cadmium	11/21/19	07:19	0.500	0.537	107	90	110
Chromium	11/21/19	07:19	5.00	4.93	99	90	110
Lead	11/21/19	07:19	5.00	5.13	103	90	110
Selenium	11/21/19	07:19	5.00	5.35	107	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV Low Level

2A-2

CONTINUING CALIBRATION VERIFICATION (LEVEL 2 - LOW RANGE)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363227

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	11/21/19	07:25	0.500	0.525	105	90	110
Barium	11/21/19	07:25	0.500	0.538	108	90	110
Cadmium	11/21/19	07:25	0.0500	0.0495	99	90	110
Chromium	11/21/19	07:25	0.500	0.534	107	90	110
Lead	11/21/19	07:25	0.500	0.540	108	90	110
Selenium	11/21/19	07:25	0.500	0.521	104	90	110
Silver	11/21/19	07:25	0.0500	0.0509	102	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV High Level

2A-2

CONTINUING CALIBRATION VERIFICATION (LEVEL 1 - HIGH RANGE)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363231

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	11/21/19	08:45	5.00	5.31	106	90	110
Barium	11/21/19	08:45	5.00	4.98	100	90	110
Cadmium	11/21/19	08:45	0.500	0.550	110	90	110
Chromium	11/21/19	08:45	5.00	4.95	99	90	110
Lead	11/21/19	08:45	5.00	5.42	108	90	110
Selenium	11/21/19	08:45	5.00	5.37	107	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV Low Level

2A-2

CONTINUING CALIBRATION VERIFICATION (LEVEL 2 - LOW RANGE)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363232

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time		Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Arsenic	11/21/19	08:51	0.500	0.543	109	90	110
Barium	11/21/19	08:51	0.500	0.550	110	90	110
Cadmium	11/21/19	08:51	0.0500	0.0497	99	90	110
Chromium	11/21/19	08:51	0.500	0.538	108	90	110
Lead	11/21/19	08:51	0.500	0.551	110	90	110
Selenium	11/21/19	08:51	0.500	0.527	105	90	110
Silver	11/21/19	08:51	0.0500	0.0509	102	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363341

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	11/22/19 16:08	0.00300	0.00304	101	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363343

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	11/22/19 16:37	0.00300	0.00293	98	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363345

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	11/22/19 17:05	0.00300	0.00298	99	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No.

CCV

2A-2

CONTINUING CALIBRATION VERIFICATION

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363347

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R**	Lower Limit (1)	Upper Limit (1)
Mercury	11/22/19 17:33	0.00300	0.00289	96	90	110

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
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Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363340

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	11/22/2019 13:08	0	U	0.00003	0.00006

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

INITIAL CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363219

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Arsenic	11/20/2019 11:37	0.000453	U	0.004	0.012
Barium	11/20/2019 11:37	-0.00111	U	0.00029	0.00090
Cadmium	11/20/2019 11:37	-0.000156	U	0.0003	0.0010
Chromium	11/20/2019 11:37	-0.000368	U	0.0006	0.0020
Lead	11/20/2019 11:37	0.000099	U	0.0014	0.0020
Selenium	11/20/2019 11:37	-0.00549	U	0.0022	0.0065
Silver	11/20/2019 11:37	-0.000061	U	0.0007	0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363342

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	11/22/2019 16:13	0	U	0.00003	0.00006

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363344

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	11/22/2019 16:41	0	U	0.00003	0.00006

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363346

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	11/22/2019 17:09	0	U	0.00003	0.00006

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363348

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	11/22/2019 17:37	0	U	0.00003	0.00006

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363225

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Arsenic	11/21/2019 06:08	-0.000355	U	0.004	0.012
Barium	11/21/2019 06:08	0.000398		0.00029	0.00090
Cadmium	11/21/2019 06:08	0.000069	U	0.0003	0.0010
Chromium	11/21/2019 06:08	0.000134	U	0.0006	0.0020
Lead	11/21/2019 06:08	0.000908	U	0.0014	0.0020
Selenium	11/21/2019 06:08	0.00143	U	0.0022	0.0065
Silver	11/21/2019 06:08	-0.00121	U	0.0007	0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363228

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Arsenic	11/21/2019 07:31	0.000582	U	0.004	0.012
Barium	11/21/2019 07:31	0.000540		0.00029	0.00090
Cadmium	11/21/2019 07:31	0.000004	U	0.0003	0.0010
Chromium	11/21/2019 07:31	0.000306	U	0.0006	0.0020
Lead	11/21/2019 07:31	-0.000160	U	0.0014	0.0020
Selenium	11/21/2019 07:31	0.00205	U	0.0022	0.0065
Silver	11/21/2019 07:31	-0.00151	U	0.0007	0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

CONTINUING CALIBRATION BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363233

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Arsenic	11/21/2019 08:57	0.00224	U	0.004	0.012
Barium	11/21/2019 08:57	0.000321		0.00029	0.00090
Cadmium	11/21/2019 08:57	0.000057	U	0.0003	0.0010
Chromium	11/21/2019 08:57	0.000736		0.0006	0.0020
Lead	11/21/2019 08:57	0.000850	U	0.0014	0.0020
Selenium	11/21/2019 08:57	-0.000651	U	0.0022	0.0065
Silver	11/21/2019 08:57	-0.00119	U	0.0007	0.0020

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 359026

Analytical Prep Batch # 74586 Preparation Date/Time: 11/21/2019 10:02

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Mercury	11/22/2019 16:33	-0.000010	U	0.00003	0.00006

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 359031

Analytical Prep Batch # 74587 Preparation Date/Time: 11/19/2019 14:44

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit	
Arsenic	11/21/2019 07:37	-0.00170	U	0.004	0.012	
Barium	11/21/2019 07:37	-0.00125	U	0.00029	0.00090	FAIL
Cadmium	11/21/2019 07:37	-0.000390	U	0.0003	0.0010	
Chromium	11/21/2019 07:37	-0.000230	U	0.0006	0.0020	
Lead	11/21/2019 07:37	-0.00148	U	0.0014	0.0020	
Selenium	11/21/2019 07:37	-0.000096	U	0.0022	0.0065	
Silver	11/21/2019 07:37	-0.000789	U	0.0007	0.0020	

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
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Sample No:

4-1

ICP INTERFERENCE CHECK SAMPLE (SOL. A)

ICSA

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
ICP ID Number: TJA 6000
SDG No.: 149511
ICS Source: SPEX

Analytical Run #: 166766
Lab Sample ID: 363220
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	11/20/2019 11:55	500.0	441.0	88	80	120
Arsenic	11/20/2019 11:55	0	-0.0000130		-.02	.02
Barium	11/20/2019 11:55	0	0		-.0017	.0017
Cadmium	11/20/2019 11:55	0	-0.0000010		-.013	.013
Calcium	11/20/2019 11:55	500.0	430.0	86	80	120
Chromium	11/20/2019 11:55	0	0.00301		-.013	.013
Iron	11/20/2019 11:55	500.0	451.0	90	80	120
Lead	11/20/2019 11:55	0	0.000852		-.0047	.0047
Magnesium	11/20/2019 11:55	500.0	416.0	83	80	120
Selenium	11/20/2019 11:55	0	-0.00197		-.013	.013
Silver	11/20/2019 11:55	0	-0.000384		-.0073	.0073

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-2

ICP INTERFERENCE CHECK SAMPLE (SOL. AB)

ICSAB

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
ICP ID Number: TJA 6000
SDG No.: 149511
ICS Source: SPEX, Ultra

Analytical Run #: 166766
Lab Sample ID: 363221
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: mg/L

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Spiked Conc.	Measured Conc.	%R	Lower Limit (1)	Upper Limit (1)
Aluminum	11/20/2019 12:02	500.0	453.0	91	80	120
Arsenic	11/20/2019 12:02	0.500	0.468	94	80	120
Barium	11/20/2019 12:02	0.500	0.499	100	80	120
Cadmium	11/20/2019 12:02	0.500	0.465	93	80	120
Calcium	11/20/2019 12:02	500.0	441.0	88	80	120
Chromium	11/20/2019 12:02	0.500	0.479	96	80	120
Iron	11/20/2019 12:02	500.0	440.0	88	80	120
Lead	11/20/2019 12:02	0.500	0.443	89	80	120
Magnesium	11/20/2019 12:02	500.0	426.0	85	80	120
Selenium	11/20/2019 12:02	0.500	0.510	102	80	120
Silver	11/20/2019 12:02	0.500	0.410	82	80	120

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	LIQUID	SDG No.:	149511
% Solids for Sample:		Concentration Units:	mg/L
Sample No	359029	Parent Sample No.:	356218
Analytical Prep Batch #	74586	Analytical Preparation Date/Time:	11/21/2019 10:02
Analytical Run #:	166905	ICAL Calibration #:	11222019

Analysis Type *Initial Analysis* Analysis Date: ----- 11/22/2019 Analysis Time: -------- 16:51

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Mercury	82-119	0.00176		BDL	U	0.00200	88		CV

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

46ADPT-TCLP

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: LIQUID
SDG No.: 149511
% Solids for Sample:
Concentration Units: mg/L
Sample No 359034
Parent Sample No.: 356218
Analytical Prep Batch # 74587
Analytical Preparation Date/Time: 11/19/2019 14:44
Analytical Run #: 166766
ICAL Calibration #:

Analysis Type *Initial Analysis* Analysis Date: ----- 11/21/2019 Analysis Time: -------- 08:05

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Arsenic	87-113	0.914		BDL	U	0.800	114		P	*FAIL*
Barium	88-113	1.17		0.44		0.800	91		P	
Cadmium	88-113	0.0174		0.00039	J	0.0200	85		P	*FAIL*
Chromium	90-113	0.0794		0.0013	J	0.0800	98		P	
Lead	86-113	0.194		0.017		0.200	88		P	
Selenium	83-114	1.02		0.011	J	0.800	126		P	*FAIL*
Silver	84-115	0.0160		BDL	U	0.0200	80		P	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5B

POST DIGESTION SPIKE SAMPLE RECOVERY

Sample Description: **46ADPT-TCLP**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: LIQUID
SDG No.: 149511
% Solids for Sample:
Concentration Units: mg/L
Sample No: 363230
Parent Sample No.: 356218
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
Analytical Run #: 166766
ICAL Calibration #:

Analysis Type: *Initial Analysis* Analysis Date: ----- 11/21/2019 Analysis Time: -------- 08:18

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Arsenic	80-120	4.78		BDL	U	4	120		P	
Cadmium	80-120	0.0868		0.00039	J	0.1	86		P	
Selenium	80-120	5.13		0.011	J	4	128		P	*FAIL*
Silver	80-120	0.0839		BDL	U	0.1	84		P	

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	LIQUID	SDG No.:	149511
% Solids for Sample:		Concentration Units:	mg/L
Sample No	359030	Parent Sample No.:	359029
Analytical Prep Batch #	74586	Analytical Preparation Date/Time:	11/21/2019 10:02
Analytical Run #:	166905	ICAL Calibration #:	11222019

Analysis Type *Initial Analysis* Analysis Date: ----- 11/22/2019 Analysis Time: -------- 16:53

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Mercury	82-119	0.00162		BDL	U	0.00200	81		CV	*FAIL*

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5C

SPIKE DUPLICATE SAMPLE RECOVERY

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	LIQUID	SDG No.:	149511
% Solids for Sample:		Concentration Units:	mg/L
Sample No	359035	Parent Sample No.:	359034
Analytical Prep Batch #	74587	Analytical Preparation Date/Time:	11/19/2019 14:44
Analytical Run #:	166766	ICAL Calibration #:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	11/21/2019	Analysis Time: --------	08:12

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M	
Arsenic	87-113	0.929		BDL	U	0.800	116		P	*FAIL*
Barium	88-113	1.22		0.44		0.800	98		P	
Cadmium	88-113	0.0180		0.00039	J	0.0200	88		P	
Chromium	90-113	0.0823		0.0013	J	0.0800	101		P	
Lead	86-113	0.197		0.017		0.200	90		P	
Selenium	83-114	1.05		0.011	J	0.800	130		P	*FAIL*
Silver	84-115	0.0169		BDL	U	0.0200	84		P	

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

46ADPT-TCLP

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: LIQUID
SDG No.: 149511
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch # 1
Analytical Preparation Date/Time 74586
Analytical Run #: 166905
ICAL Calibration #: 11222019
Sample #: 359028
Parent Sample #: 356218

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Mercury	11/22/2019	17:13	20	0.000030	U	0.000030	U	0		CV

CT LABORATORIES
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6

DUPLICATES

Sample Description

46ADPT-TCLP

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: LIQUID
SDG No.: 149511
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch # 1
Analytical Preparation Date/Time 74587
Analytical Run #: 166766
ICAL Calibration #:
Sample #: 359033
Parent Sample #: 356218

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M	
Arsenic	11/21/2019	07:58	20	0.0040	U	0.00687	J	200		P	*FAIL*
Barium	11/21/2019	07:58	20	0.44		0.438		0		P	
Cadmium	11/21/2019	07:58	20	0.00039	J	0.00030	U	200		P	*FAIL*
Chromium	11/21/2019	07:58	20	0.0013	J	0.00171	J	27		P	*FAIL*
Lead	11/21/2019	07:58	20	0.017		0.0170		0		P	
Selenium	11/21/2019	07:58	20	0.011	J	0.0114	J	4		P	
Silver	11/21/2019	07:58	20	0.00070	U	0.00070	U	0		P	

CT LABORATORIES
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6A

MATRIX SPIKE DUPLICATES

Sample Description: **46ADPT-TCLP**

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Matrix: LIQUID | SDG No.: 149511

% Solid for Sample: | Concentration Units: mg/L

Analytical Prep Batch #: 74586 | Analytical Preparation Date/Time: 11/21/2019 10:02

Analytical Run #: 166905 | ICAL Calibration #: 11222019

Sample #: 359030 | Parent Sample #: 359029

Analysis Type: *Initial Analysis*

Analyte	Analysis Date/Tim	RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Mercury	11/22/2019 16:53	20	0.00176		0.00162		9		CV

CT LABORATORIES
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6A

MATRIX SPIKE DUPLICATES

Sample Description: **46ADPT-TCLP**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: LIQUID
SDG No.: 149511
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch #: 74587
Analytical Preparation Date/Time: 11/19/2019 14:44
Analytical Run #: 166766
ICAL Calibration #:
Sample #: 359035
Parent Sample #: 359034

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Matrix Spik Parent Conc. (S)	C	Matrix Spike Duplicate Conc. (D)	C	RPD	Q	M
Arsenic	11/21/2019	08:12	20	0.914		0.929		2		P
Barium	11/21/2019	08:12	20	1.17		1.22		4		P
Cadmium	11/21/2019	08:12	20	0.0174		0.0180		3		P
Chromium	11/21/2019	08:12	20	0.0794		0.0823		4		P
Lead	11/21/2019	08:12	20	0.194		0.197		2		P
Selenium	11/21/2019	08:12	20	1.02		1.05		3		P
Silver	11/21/2019	08:12	20	0.0160		0.0169		5		P

CT LABORATORIES
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7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract HDR, INC-LONGHORN

LCS Source: SPEX and Ultra SDG No.: 149511

Concentration Units: mg/L

Analytical Run #: 166905 Sample No.:#: 359027

Analytical Prep Batch #: 74586 Preparation Date/Time: 11/21/2019 10:02

ICAL Calibration #: 11222019

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Mercury	11/22/2019 16:29	82-119	0.00189		0.00200	94		CV

CT LABORATORIES
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7-1

Sample No:

LABORATORY CONTROL SAMPLE - AQUEOUS

LCS

Lab Name: CT Laboratories Contract HDR, INC-LONGHORN

LCS Source: SPEX and Ultra SDG No.: 149511

Concentration Units: mg/L

Analytical Run #: 166766 Sample No.:#: 359032

Analytical Prep Batch #: 74587 Preparation Date/Time: 11/19/2019 14:44

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Arsenic	11/21/2019 07:13	87-113	0.824		0.800	103		P
Barium	11/21/2019 07:13	88-113	0.794		0.800	99		P
Cadmium	11/21/2019 07:13	88-113	0.0178		0.0200	89		P
Chromium	11/21/2019 07:13	90-113	0.0802		0.0800	100		P
Lead	11/21/2019 07:13	86-113	0.193		0.200	96		P
Selenium	11/21/2019 07:13	83-114	0.785		0.800	98		P
Silver	11/21/2019 07:13	84-115	0.0168		0.0200	84		P

CT LABORATORIES
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9

ICP SERIAL DILUTION

Sample Description: **46ADPT-TCLP**

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

Matrix: LIQUID SDG No.: 149511

Concentration Units: ug/L

Sample No.: 363229 Parent Sample No.: 356218

LIMS Run #: 166766 ICAL Calibration #:.:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Initial Sample Result (I)	C (I)	Serial Dilution Result (S)	C (S)	% Diff.	Q	M	
Arsenic	11/21/2019 07:51	BDL	U	2.545		0		P	*INVALID*
Cadmium	11/21/2019 07:51	.387		0.0015	U	100		P	*INVALID*
Selenium	11/21/2019 07:51	10.5		0.011	U	100		P	*INVALID*
Silver	11/21/2019 07:51	BDL	U	0.0035	U	0		P	*INVALID*

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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Matrix: LIQUID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/L)	M
Mercury	253.7			0.00003	CV

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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

ICP ID Number: TJA SDG No.: 149511

Matrix: LIQUID

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	MDL (mg/L)	M
Arsenic	193.7			0.004	P
Barium	455.4			0.00029	P
Cadmium	226.502			0.0003	P
Chromium	267.716			0.0006	P
Lead	220.35			0.0014	P
Selenium	196.02			0.0022	P
Silver	328.068			0.0007	P

ICP INTERELEMENT CORRECTION FACTORS (ANNUAL)
ICP ID NUMBER: TA ICAP6000 / ICAP6500

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	2	Fe	0.000006	0.000000	No
			Ce	0.000000	0.000000	No
Ag 338.289 {100}	☒	1	Fe	0.000906	0.000000	No
Al 167.079 {501}	☒	None				
Al 308.215 {109}	☒	None				
Al 396.152 { 85}	☒	None				
As 193.759 {474}	☒	1	Al	0.001713	0.000000	No
As 197.262 {471}	☒	1	Al	-0.000113	0.000000	No
Ba 233.527 {445}	☒	3	Fe	-0.000038	0.000000	No
			V	0.000180	0.000000	No
			Al	0.000000	0.000000	No
Ba 455.403 { 74}	☒	1	Fe	0.000002	0.000000	No
Ba 493.409 { 68}	☒	1	Fe	0.000029	0.000000	No
Be 313.042 {108}	☒	1	Fe	0.000000	0.000000	No
Be 234.861 {144}	☒	1	Fe	-0.000016	0.000000	No
Ca 315.887 {107}	☒	None				
Ca 317.933 {106}	☒	None				
Ca 393.366 { 86}	☒	1	Cu	0.000000	0.000000	No
Ca 396.847 { 85}	☒	None				
Cd 226.502 {449}	☒	2	Fe	0.000090	0.000000	No
			Al	0.000000	0.000000	No
Cd 228.802 {147}	☒	None				
Co 228.616 {447}	☒	5	Fe	0.000009	0.000000	No
			Ti	0.003000	0.000000	No
			Ba	-0.001300	0.000000	No
			Ni	0.000040	0.000000	No
			Al	0.000001	0.000000	No
Co 238.892 {141}	☒	1	Fe	0.000188	0.000000	No
Cr 205.560 {464}	☒	1	Fe	-0.000004	0.000000	No
Cr 267.716 {126}	☒	1	Fe	-0.000014	0.000000	No
Cu 224.700 {450}	☒	5	Fe	0.000274	0.000000	No
			Mo	0.001320	0.000000	No
			Ni	-0.006000	0.000000	No
			Pb	0.003030	0.000000	No
			Al	0.000000	0.000000	No
Cu 324.754 {104}	☒	1	Fe	-0.000136	0.000000	No
Cu 327.396 {103}	☒	1	Fe	0.000069	0.000000	No
Fe 234.349 {144}	☒	None				
Fe 239.562 {140}	☒	None				
Fe 259.940 {129}	☒	None				
Mg 202.582 {466}	☒	None				
Mg 279.079 {121}	☒	None				
Mg 280.270 {120}	☒	None				
Mn 257.610 {131}	☒	1	Al	-0.000086	0.000000	No

ICP INTERELEMENT CORRECTION FACTORS (ANNUAL)
ICP ID NUMBER: TA ICAP6000 / ICAP6500

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Mn 259.373 {130}	☒	1	Mg	0.001339	0.000000	No
Mo 202.030 {466}	☒	1	Fe	-0.000011	0.000000	No
Mo 203.844 {465}	☒	1	Fe	-0.000020	0.000000	No
Mo 204.598 {464}	☒	1	Fe	0.000036	0.000000	No
Ni 221.647 {452}	☒	1	Ca	0.000021	0.000000	No
Ni 231.604 {445}	☒	3	Fe	0.000012	0.000000	No
			Co	0.000000	0.000000	No
			Mo	0.000000	0.000000	No
Pb 216.999 {455}	☒	2	Al	0.001241	0.000000	No
			Na	0.000000	0.000000	No
Pb 220.353 {453}	☒	3	Si	0.000000	0.000000	No
			Al	0.000001	0.000000	No
			Fe	0.000018	0.000000	No
Pb 220.353 {153}	☒	1	Al	-0.000040	0.000000	No
Sb 206.833 {463}	☒	1	Fe	0.000009	0.000000	No
Sb 217.581 {455}	☒	3	Fe	-0.000069	0.000000	No
			V	0.002070	0.000000	No
			Pb	-0.001040	0.000000	No
Se 196.090 {472}	☒	1	Fe	-0.000360	0.000000	No
Se 206.279 {463}	☒	1	Fe	0.001308	0.000000	No
Tl 190.856 {476}	☒	5	Fe	0.000024	0.000000	No
			Be	-0.000013	0.000000	No
			Ti	0.000050	0.000000	No
			Cr	0.000251	0.000000	No
			V	-0.003800	0.000000	No
Tl 190.856 {477}	☒	1	Fe	-0.000048	0.000000	No
V 290.882 {116}	☒	1	Fe	0.000073	0.000000	No
V 292.402 {115}	☒	3	Fe	0.000020	0.000000	No
			Cr	-0.000400	0.000000	No
			Al	0.000000	0.000000	No
Zn 202.548 {466}	☒	1	Fe	-0.000239	0.000000	No
Zn 206.200 {463}	☒	1	Fe	-0.000003	0.000000	No
Zn 213.856 {457}	☒	2	Fe	0.000167	0.000000	No
			Cu	0.007413	0.000000	No
Y 324.228 {104}*	☒	None				
Y 371.030 { 91}*	☒	None				
Y 224.306 {451}*	☒	None				
Na 588.995 { 57}	☒	1	Fe	0.000106	0.000000	No
Si 251.611 {134}	☒	2	Fe	-0.000105	0.000000	No
			Mo	0.005400	0.000000	No
Ti 323.452 {104}	☒	1	Fe	0.000036	0.000000	No
Ti 334.941 {101}	☒	1	Fe	0.000052	0.000000	No
Sr 407.771 { 83}	☒	1	Fe	0.000014	0.000000	No
Sr 421.552 { 80}	☒	1	Fe	0.000014	0.000000	No

ICP INTERELEMENT CORRECTION FACTORS (ANNUAL)
ICP ID NUMBER: TA ICAP6000 / ICAP6500

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Sn 189.989 {477}	☒	1	Fe	0.000013	0.000000	No
B 249.678 {135}	☒	2	Fe	0.000001	0.000000	No
			Co	0.003970	0.000000	No
B 249.773 {135}	☒	1	Fe	0.000357	0.000000	No
Li 670.784 { 50}	☒	1	Fe	0.000011	0.000000	No
K 766.490 { 44}	☒	1	Fe	0.000216	0.000000	No
P 213.618 {457}	☒	1	Fe	-0.000079	0.000000	No
S 182.034 {485}	☒	1	Mg	0.000100	0.000000	No
Hg 184.950 {482}	☒	1	Fe	0.000001	0.000000	No
Ce 404.076 { 83}	☒	1	Fe	0.000227	0.000000	No

ICP LINEAR RANGES (QUARTERLY)

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

ICP ID Number: TA SDG No.: 149511

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	1000000	P
Antimony	15.00	10000	P
Arsenic	15.00	10000	P
Barium	15.00	10000	P
Beryllium	15.00	1000	P
Boron	15.00	1000	P
Cadmium	15.00	1000	P
Calcium	15.00	1000000	P
Chromium	15.00	100000	P
Cobalt	15.00	10000	P
Copper	15.00	100000	P
Iron	15.00	1000000	P
Lead	15.00	100000	P
Lithium	15.00	10000	P
Magnesium	15.00	1000000	P
Manganese	15.00	100000	P
Molybdenum	15.00	10000	P
Nickel	15.00	10000	P
Potassium	15.00	200000	P
Selenium	15.00	10000	P
Silicon	15.00	1000	P
Silver	15.00	100	P
Sodium	15.00	200000	P
Strontium	15.00	10000	P
Thallium	15.00	10000	P
Tin	15.00	10000	P
Titanium	15.00	1000	P
Tungsten	15.00	10000	P
Vanadium	15.00	10000	P
Zinc	15.00	100000	P

CT LABORATORIES
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PREPARATION LOG

Lab Name: CT Laboratories Project: HDR, INC-LONGHORN

Method: EPA 7470A SDG No.: 149511

Preparation Batch #: 74586 Preparation Date/Time: 11/21/2019 / 10:02

Lab Sample #	QC Type	Sample Description	Matrix	**Weight (g for solid/soil) or Volume (mL for liquid/aqueous)**
356218	Normal Sample	46ADPT-TCLP	TCLP	25.0
359026	Method Blank		LIQUID	25.0
359027	Lab Control Spike		LIQUID	25.0
359028	Lab Duplicate	46ADPT-TCLP	TCLP	25.0
359029	Matrix Spike	46ADPT-TCLP	TCLP	25.0
359030	Matrix Spike Duplicate	46ADPT-TCLP	TCLP	25.0

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PREPARATION LOG

Lab Name: CT Laboratories Project: HDR, INC-LONGHORN

Method: EPA 3010A SDG No.: 149511

Preparation Batch #: 74587 Preparation Date/Time: 11/19/2019 / 14:44

Lab Sample #	QC Type	Sample Description	Matrix	**Weight (g for solid/soil) or Volume (mL for liquid/aqueous)**
356218	Normal Sample	46ADPT-TCLP	TCLP	50.0
359031	Method Blank		LIQUID	50.0
359032	Lab Control Spike		LIQUID	50.0
359033	Lab Duplicate	46ADPT-TCLP	TCLP	50.0
359034	Matrix Spike	46ADPT-TCLP	TCLP	50.0
359035	Matrix Spike Duplicate	46ADPT-TCLP	TCLP	50.0

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ANALYSIS RUN LOG

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Lab Code: CTL | SDG No.: 149511

Instrument ID Number: CETAC | Method Number: CV

Start & End Date: 11/22/2019 to 11/22/2019 | Analytical Run #: 166905

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
363339	ICV	1.00	11/22 13:04																X													
363340	ICB	1.00	11/22 13:08																X													
363341	CCV	1.00	11/22 16:08																X													
363342	CCB	1.00	11/22 16:13																X													
359027	LCSW	1.00	11/22 16:29																X													
359026	MBW	1.00	11/22 16:33																X													
363343	CCV	1.00	11/22 16:37																X													
363344	CCB	1.00	11/22 16:41																X													
356218	Initial	1.00	11/22 16:43																X													
359029	MSW	1.00	11/22 16:51																X													
359030	MSDW	1.00	11/22 16:53																X													
363345	CCV	1.00	11/22 17:05																X													
363346	CCB	1.00	11/22 17:09																X													
359028	DUP	1.00	11/22 17:13																X													
363347	CCV	1.00	11/22 17:33																X													
363348	CCB	1.00	11/22 17:37																X													

CT LABORATORIES
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ANALYSIS RUN LOG

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN

Lab Code: CTL
SDG No.: 149511

Instrument ID Number: TJA
Method Number: P

Start & End Date: 11/20/2019 to 11/21/2019
Analytical Run #: 166766

Sample Number	Analysis or QC Type	DF	Analysis Date/ Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Mo	Li	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	W	V	Zn
363217	ICV	1.00	11/20 11:24			X	X			X		X				X								X		X							
363218	ICVLL	1.00	11/20 11:30			X	X			X		X				X								X									
363219	ICB	1.00	11/20 11:37			X	X			X		X				X								X		X							
363220	ICSA	1.00	11/20 11:55	X		X	X			X	X	X			X	X	X							X		X							
363221	ICSAB	1.00	11/20 12:02	X		X	X			X	X	X			X	X	X							X		X							
363222	ICVLL	1.00	11/20 12:15																							X							
363223	CCV1	1.00	11/21 05:56			X	X			X		X				X								X									
363224	CCV2	1.00	11/21 06:02			X	X			X		X				X								X		X							
363225	CCB	1.00	11/21 06:08			X	X			X		X				X								X		X							
359032	LCSW	1.00	11/21 07:13			X	X			X		X				X								X		X							
363226	CCV1	1.00	11/21 07:19			X	X			X		X				X								X									
363227	CCV2	1.00	11/21 07:25			X	X			X		X				X								X		X							
363228	CCB	1.00	11/21 07:31			X	X			X		X				X								X		X							
359031	MBW	1.00	11/21 07:37			X	X			X		X				X								X		X							
356218	Initial	1.00	11/21 07:44			X	X			X		X				X								X		X							
363229	L	5	11/21 07:51			X	X			X		X				X								X		X							
359033	DUP	1.00	11/21 07:58			X	X			X		X				X								X		X							
359034	MSW	1.00	11/21 08:05			X	X			X		X				X								X		X							
359035	MSDW	1.00	11/21 08:12			X	X			X		X				X								X		X							
363230	PDSW	1.00	11/21 08:18			X	X			X		X				X								X		X							
363231	CCV1	1.00	11/21 08:45			X	X			X		X				X								X									
363232	CCV2	1.00	11/21 08:51			X	X			X		X				X								X		X							
363233	CCB	1.00	11/21 08:57			X	X			X		X				X								X		X							

METALS
RAW DATA
DOCUMENTS

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
Ag 328.068 {103}	11/25/2019 10:02:49	11/20/2019 11:12:00	Linear	1/Conc	-10.721687	3.759442	0.000000	1.000000	0.999684	0.128641	0.992587	3.308624
Ag 338.289 {100}	11/25/2019 10:02:49	11/20/2019 11:12:00	Linear	1/Conc	0.000002	0.000001	0.000000	1.000000	0.999790	0.000000	6.250910	20.836365
Al 167.079 {501}	11/25/2019 10:02:49	11/20/2019 10:31:05	Linear	1/Conc	0.000004	0.000002	0.000000	1.000000	0.998206	0.000001	0.737709	2.459030
Al 308.215 {109}	11/25/2019 10:02:49	11/20/2019 10:50:29	Linear	1/Var	0.000056	0.000001	0.000000	1.000000	0.999177	0.000067	16.214807	54.049357
Al 396.152 { 85}	11/25/2019 10:02:49	11/20/2019 11:05:27	Curvili	1/Var	-0.000081	0.000002	0.000000	1.000000	0.999752	0.000103	5.705642	19.018807
As 193.759 {474}	11/25/2019 10:02:49	11/20/2019 10:31:05	Linear	1/Conc	0.904166	0.278862	0.000000	1.000000	0.999491	0.039136	3.720895	12.402985
As 197.262 {471}	11/25/2019 10:02:49	11/20/2019 10:37:50	Linear	1/Conc	-0.000000	0.000001	0.000000	1.000000	0.999855	0.000000	5.645382	18.817941
Ba 233.527 {445}	11/25/2019 10:02:49	11/20/2019 10:31:06	Linear	1/Conc	0.000002	0.000009	0.000000	1.000000	0.999454	0.000000	0.360799	1.202662
Ba 455.403 { 74}	11/25/2019 10:02:49	11/20/2019 10:37:50	Curvili	1/Conc	0.000292	0.000069	0.000000	1.000000	0.999820	0.000005	0.194782	0.649272
Ba 493.409 { 68}	11/25/2019 10:02:49	11/20/2019 11:12:00	Linear	1/Var	0.017438	0.000056	0.000000	1.000000	0.999460	0.000895	0.665757	2.219189
Be 313.042 {108}	11/25/2019 10:02:49	11/20/2019 10:31:06	Linear	1/Conc	-0.000057	0.000072	0.000000	1.000000	0.999879	0.000001	0.031460	0.104865
Be 234.861 {144}	11/25/2019 10:02:49	11/20/2019 10:31:06	Linear	1/Conc	-0.000002	0.000009	0.000000	1.000000	0.998894	0.000004	0.238568	0.795228
Ca 315.887 {107}	11/25/2019 10:02:49	11/20/2019 11:05:28	Curvili	1/Var	0.000067	0.000001	0.000000	1.000000	0.999628	0.000044	5.272937	17.576455
Ca 317.933 {106}	11/25/2019 10:02:49	11/20/2019 11:05:28	Linear	1/Conc	0.005371	0.000001	0.000000	1.000000	0.998790	0.000091	3.302106	11.007019
Ca 393.366 { 86}	11/25/2019 10:02:49	11/20/2019 10:31:07	Linear	1/Conc	0.000221	0.000296	0.000000	1.000000	0.999974	0.000039	0.031856	0.106187
Ca 396.847 { 85}	11/25/2019 10:02:49	11/20/2019 10:37:50	Linear	1/Var	0.000089	0.000142	0.000000	1.000000	0.999844	0.000034	0.065102	0.217008
Cd 226.502 {449}	11/25/2019 10:02:49	11/20/2019 10:31:07	Linear	1/Conc	0.000002	0.000021	0.000000	1.000000	0.998764	0.000001	0.211805	0.706018
Cd 228.802 {447}	11/25/2019 10:02:49	11/20/2019 10:31:07	Linear	1/Conc	0.000021	0.000041	0.000000	1.000000	0.998627	0.000002	0.182770	0.609234
Co 228.616 {447}	11/25/2019 10:02:49	11/20/2019 10:37:50	Linear	1/Conc	0.000009	0.000020	0.000000	1.000000	0.999832	0.000001	0.266162	0.887205
Co 238.892 {141}	11/25/2019 10:02:49	11/20/2019 10:37:51	Linear	1/Conc	0.000003	0.000002	0.000000	1.000000	0.999990	0.000000	0.664651	2.215505
Cr 205.560 {464}	11/25/2019 10:02:49	11/20/2019 10:44:34	Curvili	1/Conc	-0.000009	0.000011	-0.000000	1.000000	0.999976	0.000001	0.316891	1.056303
Cr 267.716 {126}	11/25/2019 10:02:49	11/20/2019 10:37:51	Linear	1/Conc	0.000000	0.000003	0.000000	1.000000	0.999861	0.000000	0.677858	2.259527
Cu 223.008 {451}	11/25/2019 10:02:49	11/20/2019 10:37:51	Linear	1/Conc	0.000004	0.000004	0.000000	1.000000	0.999639	0.000001	1.352372	4.507906
Cu 224.700 {450}	11/25/2019 10:02:49	11/20/2019 10:44:34	Linear	1/Var	-32.187136	1.570908	0.000000	1.000000	0.996310	28.767278	0.574075	1.913584
Cu 324.754 {104}	11/25/2019 10:02:49	11/20/2019 10:44:34	Linear	1/Var	0.002673	0.000002	0.000000	1.000000	0.999807	0.000065	3.296110	10.987033
Cu 327.396 {103}	11/25/2019 10:02:49	11/20/2019 10:37:52	Linear	1/Conc	0.000042	0.000002	0.000000	1.000000	0.999315	0.000001	4.057298	13.524326
Fe 234.349 {144}	11/25/2019 10:02:49	11/20/2019 10:50:30	Curvili	1/Conc	51.462619	0.608981	-0.000000	1.000000	0.999991	1.699642	1.786272	5.954239
Fe 239.562 {140}	11/25/2019 10:02:49	11/20/2019 11:05:28	Linear	1/Var	0.000004	0.000001	0.000000	1.000000	0.997470	0.000055	2.645304	8.817679
Fe 259.940 {129}	11/25/2019 10:02:49	11/20/2019 10:57:33	Full Fit	1/Conc	0.000001	0.000002	0.000000	1.040000	0.999991	0.000017	2.266310	7.554367
Mg 202.582 {466}	11/25/2019 10:02:49	11/20/2019 11:05:28	Curvili	1/Conc	-0.000006	0.000002	0.000000	1.000000	0.999690	0.000066	2.448181	8.160602
Mg 279.079 {121}	11/25/2019 10:02:49	11/20/2019 11:05:28	Curvili	1/Conc	-0.335327	0.041644	-0.000000	1.000000	0.999951	0.653871	19.055073	63.516910
Mg 280.270 {120}	11/25/2019 10:02:49	11/20/2019 10:37:52	Linear	None	0.000942	0.000032	0.000000	1.000000	0.999976	0.001333	0.032445	0.108151
Mn 257.610 {131}	11/25/2019 10:02:49	11/20/2019 10:37:53	Curvili	1/Conc	-0.000003	0.000012	-0.000000	1.000000	0.999767	0.000002	0.084012	0.280041
Mn 259.373 {130}	11/25/2019 10:02:49	11/20/2019 10:44:35	Curvili	1/Var	-0.000001	0.000006	-0.000000	1.000000	0.999998	0.000005	0.509900	1.699666
Mo 202.030 {466}	11/25/2019 10:02:49	11/20/2019 10:31:10	Linear	1/Var	0.000006	0.000008	0.000000	1.000000	0.999451	0.000025	0.419192	1.397307
Mo 203.844 {465}	11/25/2019 10:02:49	11/20/2019 10:31:10	Linear	1/Var	0.000011	0.000005	0.000000	1.000000	0.999458	0.000021	0.832639	2.775464
Mo 204.598 {464}	11/25/2019 10:02:49	11/20/2019 10:37:53	Linear	1/Var	0.000011	0.000005	0.000000	1.000000	0.999840	0.000027	0.761798	2.539326
Ni 221.647 {452}	11/25/2019 10:02:49	11/20/2019 10:37:53	Linear	1/Var	0.000001	0.000014	0.000000	1.000000	0.999981	0.000010	0.456797	1.522658
Ni 231.604 {445}	11/25/2019 10:02:49	11/20/2019 10:37:53	Linear	1/Conc	-0.000021	0.000013	0.000000	1.000000	0.999818	0.000001	0.475843	1.586143
Pb 216.999 {455}	11/25/2019 10:02:49	11/20/2019 10:44:35	Full Fit	1/Var	0.000004	0.000001	0.000000	0.980000	0.999994	0.000006	3.794839	12.649464
Pb 220.353 {453}	11/25/2019 10:02:49	11/20/2019 10:31:11	Linear	None	0.000012	0.000003	0.000000	1.000000	0.999999	0.000002	2.497402	8.324672
Pb 220.353 {153}	11/25/2019 10:02:49	11/20/2019 10:44:35	Linear	1/Conc	0.000001	0.000000	0.000000	1.000000	0.999878	0.000000	4.610251	15.367502
Sb 206.833 {463}	11/25/2019 10:02:49	11/20/2019 10:37:54	Linear	1/Var	0.000006	0.000002	0.000000	1.000000	0.999865	0.000011	2.230584	7.435279
Sb 217.581 {455}	11/25/2019 10:02:49	11/20/2019 10:37:54	Linear	1/Conc	0.000004	0.000002	0.000000	1.000000	0.999971	0.000000	2.500180	8.333935

	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	OK.	1.000000	0.000000	1	0
	Ag 338.289 {100}	OK.	1.000000	0.000000	1	0
	Al 167.079 {501}	OK.	1.000000	0.000000	1	0
	Al 308.215 {109}	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	OK.	1.000000	0.000000	1	0
	As 193.759 {474}	OK.	1.000000	0.000000	1	0
	As 197.262 {471}	OK.	1.000000	0.000000	1	0
	Ba 233.527 {445}	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	OK.	1.000000	0.000000	1	0
	Ba 493.409 { 68}	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	OK.	1.000000	0.000000	1	0
	Be 234.861 {144}	OK.	1.000000	0.000000	1	0
	Ca 315.887 {107}	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	OK.	1.000000	0.000000	1	0
	Ca 393.366 { 86}	OK.	1.000000	0.000000	1	0
	Ca 396.847 { 85}	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	OK.	1.000000	0.000000	1	0
	Cd 228.802 {447}	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	OK.	1.000000	0.000000	1	0
	Co 238.892 {141}	OK.	1.000000	0.000000	1	0
	Cr 205.560 {464}	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	OK.	1.000000	0.000000	1	0
	Cu 223.008 {451}	OK.	1.000000	0.000000	1	0
	Cu 224.700 {450}	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	OK.	1.000000	0.000000	1	0
	Cu 327.396 {103}	OK.	1.000000	0.000000	1	0
	Fe 234.349 {144}	OK.	1.000000	0.000000	1	0
	Fe 239.562 {140}	OK.	1.000000	0.000000	1	0
	Fe 259.940 {129}	OK.	1.000000	0.000000	1	0
	Mg 202.582 {466}	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	OK.	1.000000	0.000000	1	0
	Mg 280.270 {120}	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	OK.	1.000000	0.000000	1	0
	Mn 259.373 {130}	OK.	1.000000	0.000000	1	0
	Mo 202.030 {466}	OK.	1.000000	0.000000	1	0
	Mo 203.844 {465}	OK.	1.000000	0.000000	1	0
	Mo 204.598 {464}	OK.	1.000000	0.000000	1	0
	Ni 221.647 {452}	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	OK.	1.000000	0.000000	1	0
	Pb 216.999 {455}	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	OK.	1.000000	0.000000	1	0
	Pb 220.353 {153}	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	OK.	1.000000	0.000000	1	0
	Sb 217.581 {455}	OK.	1.000000	0.000000	1	0

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	Predicted MDL	Predicted MQL
	Se 196.090 {472}	11/25/2019 10:02:49	11/20/2019 10:31:11	Linear	None	0.000004	0.000001	0.000000	1.000000	0.999916	0.000005	4.032290	13.440965
	Se 203.985 {465}	11/25/2019 10:02:49	11/20/2019 10:31:12	Linear	1/Conc	-0.000001	0.000001	0.000000	1.000000	0.999091	0.000000	6.341972	21.139907
	Se 206.279 {463}	11/25/2019 10:02:49	11/20/2019 10:37:54	Curvili	1/Conc	-0.000003	0.000000	0.000000	1.000000	0.999981	0.000000	22.084522	73.615072
	Tl 190.856 {476}	11/25/2019 10:02:49	11/20/2019 10:37:54	Linear	1/Conc	0.000003	0.000002	0.000000	1.000000	0.999887	0.000000	1.871892	6.239641
	Tl 190.856 {477}	11/25/2019 10:02:49	11/20/2019 10:37:54	Linear	1/Conc	0.000002	0.000001	0.000000	1.000000	0.999953	0.000000	3.536069	11.786896
	V 290.882 {116}	11/25/2019 10:02:49	11/20/2019 10:37:55	Linear	1/Conc	0.000012	0.000002	0.000000	1.000000	0.999992	0.000000	2.925235	9.750784
	V 292.402 {115}	11/25/2019 10:02:49	11/20/2019 10:37:55	Linear	1/Conc	0.000002	0.000007	0.000000	1.000000	0.999813	0.000002	0.516099	1.720330
	Zn 206.200 {463}	11/25/2019 10:02:49	11/20/2019 10:44:35	Curvili	1/Conc	0.000001	0.000019	-0.000000	1.000000	0.999996	0.000002	0.235037	0.783457
	Zn 213.856 {457}	11/25/2019 10:02:49	11/20/2019 10:31:13	Linear	1/Conc	0.000020	0.000039	0.000000	1.000000	0.999721	0.000004	0.121355	0.404517
	Y 224.306 {450}*	11/25/2019 10:02:49	11/20/2019 09:41:36	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Y 324.228 {104}*	11/25/2019 10:02:49	11/20/2019 09:41:36	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Y 371.030 { 91}*	11/25/2019 10:02:49	11/20/2019 09:41:36	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	-1.000000	-1.000000
	Na 588.995 { 57}	11/25/2019 10:02:49	11/20/2019 10:37:55	Linear	None	0.006899	0.000010	0.000000	1.000000	0.999943	0.000869	3.492393	11.641310
	Na 589.592 { 57}	11/25/2019 10:02:49	11/20/2019 11:05:28	Linear	1/Var	0.000083	0.000006	0.000000	1.000000	0.999665	0.000096	5.031073	16.770244
	Si 251.611 {134}	11/25/2019 10:02:49	11/20/2019 11:05:28	Linear	1/Var	15.333740	0.167946	0.000000	1.000000	0.999694	18.415269	7.849349	26.164497
	Ti 323.452 {104}	11/25/2019 10:02:49	11/20/2019 10:37:55	Linear	1/Conc	0.000296	0.000010	0.000000	1.000000	0.999869	0.000001	0.815692	2.718972
	Ti 334.941 {101}	11/25/2019 10:02:49	11/20/2019 10:37:56	Linear	1/Conc	0.000005	0.000007	0.000000	1.000000	0.999878	0.000001	0.762274	2.540912
	Sr 407.771 { 83}	11/25/2019 10:02:49	11/20/2019 10:37:56	Linear	1/Conc	0.000050	0.000177	0.000000	1.000000	0.999984	0.000004	0.069287	0.230957
	Sr 421.552 { 80}	11/25/2019 10:02:49	11/20/2019 10:37:56	Linear	1/Conc	-0.000034	0.000172	0.000000	1.000000	0.999961	0.000006	0.070953	0.236510
	Sn 189.989 {477}	11/25/2019 10:02:49	11/20/2019 10:37:56	Linear	1/Conc	0.000002	0.000003	0.000000	1.000000	0.999902	0.000001	1.256155	4.187182
	B 249.678 {135}	11/25/2019 10:02:49	11/20/2019 10:37:56	Linear	1/Conc	0.000001	0.000002	0.000000	1.000000	0.999988	0.000000	1.330032	4.433439
	B 249.773 {135}	11/25/2019 10:02:49	11/20/2019 10:37:56	Linear	1/Var	0.000005	0.000003	0.000000	1.000000	0.999997	0.000006	0.562865	1.876216
	Li 670.784 { 50}	11/25/2019 10:02:49	11/20/2019 10:37:57	Linear	1/Conc	-0.000060	0.000034	0.000000	1.000000	0.999976	0.000003	0.934681	3.115604
	K 766.490 { 44}	11/25/2019 10:02:49	11/20/2019 11:05:29	Curvili	1/Conc	-0.000029	0.000002	0.000000	1.000000	1.000000	0.000002	18.885878	62.952927
	P 213.618 {457}	11/25/2019 10:02:49	11/20/2019 10:37:57	Linear	1/Conc	-0.000001	0.000000	0.000000	1.000000	0.999969	0.000000	3.928442	13.094805
	S 182.034 {485}	11/25/2019 10:02:49	11/20/2019 11:05:29	Curvili	1/Conc	0.000003	0.000001	0.000000	1.000000	0.999999	0.000001	4.594036	15.313454
	Hg 184.950 {482}	11/25/2019 10:02:49	11/20/2019 10:31:15	Linear	1/Conc	0.000009	0.000004	0.000000	1.000000	1.000000	0.000000	0.870348	2.901160
	Ce 404.076 { 83}	11/25/2019 10:02:49	11/20/2019 10:31:15	Linear	1/Conc	0.000047	0.000001	0.000000	1.000000	1.000000	0.000000	14.729147	49.097156

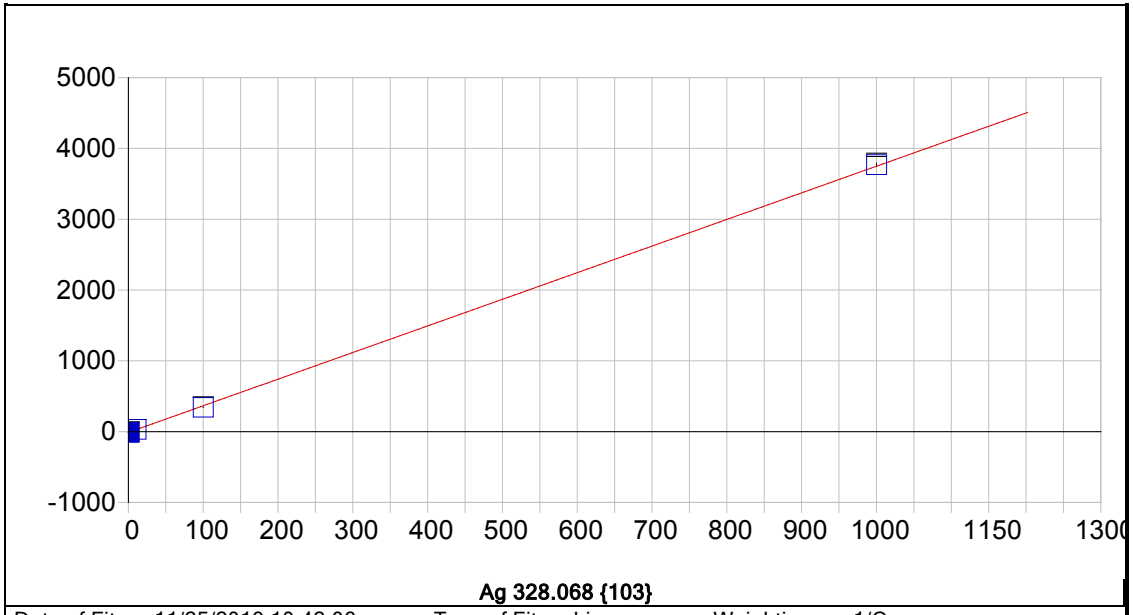
	Element, Wavelength and Order	Status	Reslope		QC Norm	
			Slope	Y-int	Slope factor	Offset
	Se 196.090 {472}	OK.	1.000000	0.000000	1	0
	Se 203.985 {465}	OK.	1.000000	0.000000	1	0
	Se 206.279 {463}	OK.	1.000000	0.000000	1	0
	Tl 190.856 {476}	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	OK.	1.000000	0.000000	1	0
	V 290.882 {116}	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	OK.	1.000000	0.000000	1	0
	Zn 213.856 {457}	OK.	1.000000	0.000000	1	0
	Y 224.306 {450}*	Warnin	1.000000	0.000000	1	0
	Y 324.228 {104}*	Warnin	1.000000	0.000000	1	0
	Y 371.030 { 91}*	Warnin	1.000000	0.000000	1	0
	Na 588.995 { 57}	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	OK.	1.000000	0.000000	1	0
	Si 251.611 {134}	OK.	1.000000	0.000000	1	0
	Ti 323.452 {104}	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	OK.	1.000000	0.000000	1	0
	Sr 421.552 { 80}	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	OK.	1.000000	0.000000	1	0
	B 249.678 {135}	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	OK.	1.000000	0.000000	1	0
	K 766.490 { 44}	OK.	1.000000	0.000000	1	0
	P 213.618 {457}	OK.	1.000000	0.000000	1	0
	S 182.034 {485}	OK.	1.000000	0.000000	1	0
	Hg 184.950 {482}	OK.	1.000000	0.000000	1	0
	Ce 404.076 { 83}	OK.	1.000000	0.000000	1	0

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	2	Fe	-0.000073	0.000000	No
			Ce	0.000000	0.000000	No
Ag 338.289 {100}	☒	1	Fe	0.000558	0.000000	No
Al 167.079 {501}	☒	None				
Al 308.215 {109}	☒	None				
Al 396.152 { 85}	☒	None				
As 193.759 {474}	☒	4	Al	0.000470	0.000000	No
			Mn	-0.000114	0.000000	No
			Ni	-0.000722	0.000000	No
			Cr	0.000734	0.000000	No
As 197.262 {471}	☒	2	Al	0.000096	0.000000	No
			V	0.006278	0.000000	No
Ba 233.527 {445}	☒	3	Fe	0.000010	0.000000	No
			V	0.000000	0.000000	No
			Cr	0.000118	0.000000	No
Ba 455.403 { 74}	☒	1	Fe	0.000002	0.000000	No
Ba 493.409 { 68}	☒	1	Fe	0.000102	0.000000	No
Be 313.042 {108}	☒	4	Fe	0.000000	0.000000	No
			Ti	-0.000006	0.000000	No
			V	0.000050	0.000000	No
			Ni	0.000000	0.000000	No
Be 234.861 {144}	☒	1	Fe	0.000101	0.000000	No
Ca 315.887 {107}	☒	None				
Ca 317.933 {106}	☒	None				
Ca 393.366 { 86}	☒	1	Cu	0.000000	0.000000	No
Ca 396.847 { 85}	☒	None				
Cd 226.502 {449}	☒	1	Fe	0.000163	0.000000	No
Cd 228.802 {447}	☒	1	Fe	0.000100	0.000000	No
Co 228.616 {447}	☒	3	Fe	-0.000001	0.000000	No
			Ti	0.002980	0.000000	No
			Ba	-0.001086	0.000000	No
Co 238.892 {141}	☒	1	Fe	0.000226	0.000000	No
Cr 205.560 {464}	☒	1	Fe	-0.000004	0.000000	No
Cr 267.716 {126}	☒	4	Fe	-0.000001	0.000000	No
			Mn	0.000234	0.000000	No
			Ti	0.000100	0.000000	No
			V	-0.000074	0.000000	No
Cu 223.008 {451}	☒	1	Fe	0.000008	0.000000	No
Cu 224.700 {450}	☒	2	Fe	0.000039	0.000000	No
			Ni	-0.007040	0.000000	No
Cu 324.754 {104}	☒	1	Fe	-0.000549	0.000000	No
Cu 327.396 {103}	☒	2	Fe	0.000002	0.000000	No
			Mo	-0.000590	0.000000	No
Fe 234.349 {144}	☒	None				

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Fe 239.562 {140}	☒	None				
Fe 259.940 {129}	☒	None				
Mg 202.582 {466}	☒	None				
Mg 279.079 {121}	☒	None				
Mg 280.270 {120}	☒	None				
Mn 257.610 {131}	☒	1	Al	0.000004	0.000000	No
Mn 259.373 {130}	☒	1	Mg	0.001300	0.000000	No
Mo 202.030 {466}	☒	1	Fe	-0.000016	0.000000	No
Mo 203.844 {465}	☒	1	Fe	-0.000045	0.000000	No
Mo 204.598 {464}	☒	1	Fe	0.000099	0.000000	No
Ni 221.647 {452}	☒	1	Ca	0.000021	0.000000	No
Ni 231.604 {445}	☒	6	Fe	-0.000063	0.000000	No
			Co	0.001774	0.000000	No
			Mo	0.000000	0.000000	No
			Al	0.000003	0.000000	No
			Mn	0.000089	0.000000	No
			Be	-0.001657	0.000000	No
Pb 216.999 {455}	☒	2	Al	0.001371	0.000000	No
			Na	0.000000	0.000000	No
Pb 220.353 {453}	☒	6	Si	0.000000	0.000000	No
			Al	-0.000002	0.000000	No
			Mn	0.000075	0.000000	No
			Ni	0.000106	0.000000	No
			Mo	-0.000635	0.000000	No
			V	-0.000088	0.000000	No
Pb 220.353 {153}	☒	2	Fe	-0.000002	0.000000	No
			Al	-0.000004	0.000000	No
Sb 206.833 {463}	☒	1	Fe	0.000108	0.000000	No
Sb 217.581 {455}	☒	3	Fe	-0.000042	0.000000	No
			Ni	0.000133	0.000000	No
			V	0.000000	0.000000	No
Se 196.090 {472}	☒	2	Fe	-0.000103	0.000000	No
			Mn	0.000304	0.000000	No
Se 203.985 {465}	☒	1	Fe	-0.000160	0.000000	No
Se 206.279 {463}	☒	1	Fe	0.001816	0.000000	No
Tl 190.856 {476}	☒	8	Fe	-0.000134	0.000000	No
			Be	-0.000013	0.000000	No
			Ti	-0.000379	0.000000	No
			V	0.000000	0.000000	No
			Ce	0.000000	0.000000	No
			Mn	0.000068	0.000000	No
			Ni	-0.000070	0.000000	No
			Co	0.001787	0.000000	No
Tl 190.856 {477}	☒	2	Fe	-0.000149	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Cr	0.000884	0.000000	No
V 290.882 {116}	☒	1	Fe	0.000207	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000018	0.000000	No
			Cr	0.003071	0.000000	No
			Al	0.000000	0.000000	No
			Ti	0.000420	0.000000	No
			Mo	-0.003753	0.000000	No
Zn 206.200 {463}	☒	1	Fe	0.000026	0.000000	No
Zn 213.856 {457}	☒	9	Fe	0.000172	0.000000	No
			Cu	0.000000	0.000000	No
			Al	0.000000	0.000000	No
			Mn	0.000094	0.000000	No
			Ni	0.005870	0.000000	No
			Ti	-0.000307	0.000000	No
			Mg	0.000004	0.000000	No
			Mo	0.000851	0.000000	No
			Ca	0.000000	0.000000	No
Y 224.306 {450}*	☒	None				
Y 324.228 {104}*	☒	None				
Y 371.030 { 91}*	☒	None				
Na 588.995 { 57}	☒	1	Fe	0.000106	0.000000	No
Na 589.592 { 57}	☒	1	Fe	-0.000003	0.000000	No
Si 251.611 {134}	☒	4	Fe	-0.000135	0.000000	No
			Mo	0.028793	0.000000	No
			Ti	0.028118	0.000000	No
			Sn	0.022103	0.000000	No
Ti 323.452 {104}	☒	6	Fe	0.000000	0.000000	No
			Ce	-0.000795	0.000000	No
			Mn	0.000074	0.000000	No
			Ni	0.000273	0.000000	No
			Cr	0.000125	0.000000	No
			V	0.000477	0.000000	No
Ti 334.941 {101}	☒	1	Fe	0.000070	0.000000	No
Sr 407.771 { 83}	☒	1	Fe	0.000015	0.000000	No
Sr 421.552 { 80}	☒	2	Ca	0.000013	0.000000	No
			Al	0.000025	0.000000	No
Sn 189.989 {477}	☒	1	Fe	0.000047	0.000000	No
B 249.678 {135}	☒	1	Fe	-0.000036	0.000000	No
B 249.773 {135}	☒	1	Fe	0.000386	0.000000	No
Li 670.784 { 50}	☒	1	Fe	0.000016	0.000000	No
K 766.490 { 44}	☒	1	Fe	0.000233	0.000000	No
P 213.618 {457}	☒	1	Fe	-0.000079	0.000000	No
S 182.034 {485}	☒	2	Mn	0.002145	0.000000	No
			Fe	-0.000280	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
	Hg 184.950 {482}	☒	1	Fe	0.000001	0.000000	No
	Ce 404.076 { 83}	☒	1	Fe	0.000227	0.000000	No

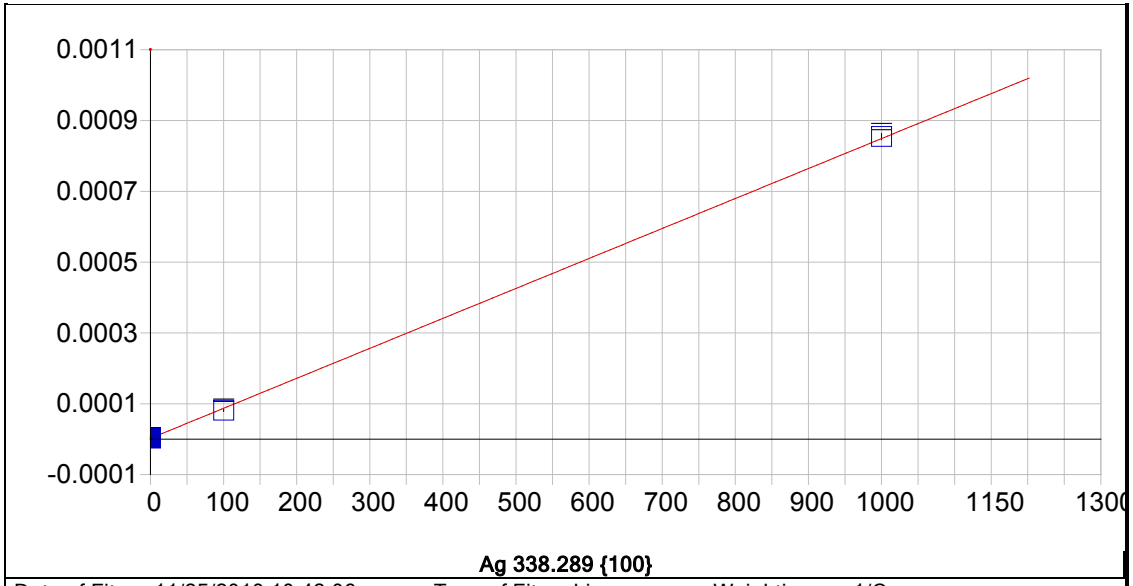


Ag 328.068 {103}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-10.721687	Re-Slope:	1.000000
A1 (Gain):	3.759442	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999684	Status:	OK.
Std Error of Est:	0.128641		
Predicted MDL:	0.992587		
Predicted MQL:	3.308624		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00045	.000	.000	-10.720	2.91	1
CalStd5=10	10.000	11.002	1.00	10.0	30.640	2.43	1
CalStd8=100	100.00	94.268	-5.73	-5.73	343.67	4.08	1
CalStd3=1	1.0000	.50318	-.497	-49.7	-8.8300	5.22	1
Ag Ba 1000,	1000.0	1005.2	5.23	.523	3768.4	23.1	1

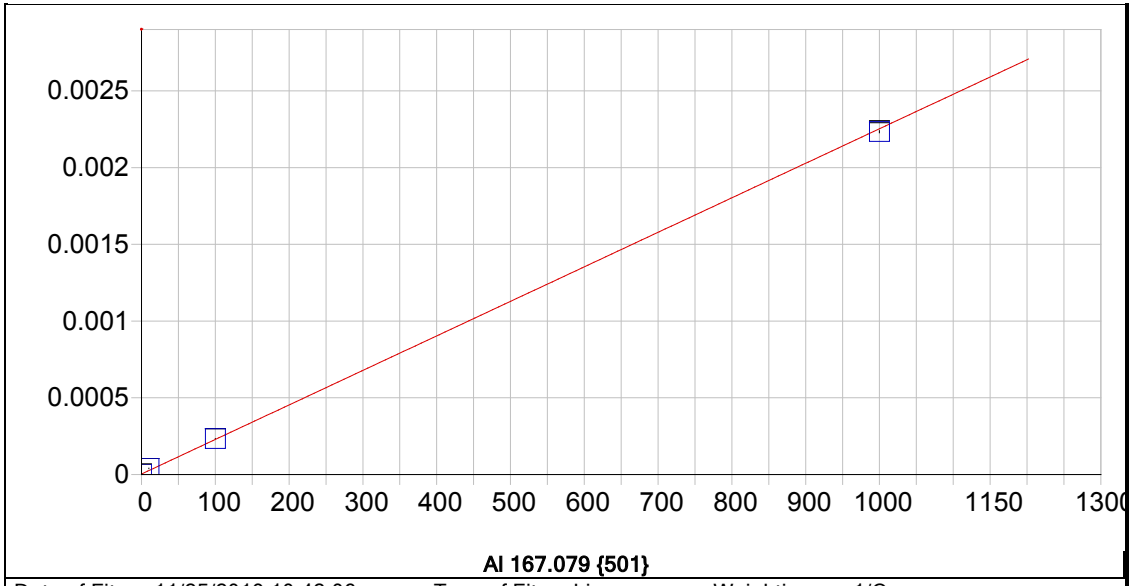


Ag 338.289 {100}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999790	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	6.250910		
Predicted MQL:	20.836365		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00583	.006	.000	.00000	.000	1
CalStd8=100	100.00	93.522	-6.48	-6.48	.00008	.000	1
Ag Ba 1000,	1000.0	1006.5	6.48	.648	.00085	.000	1

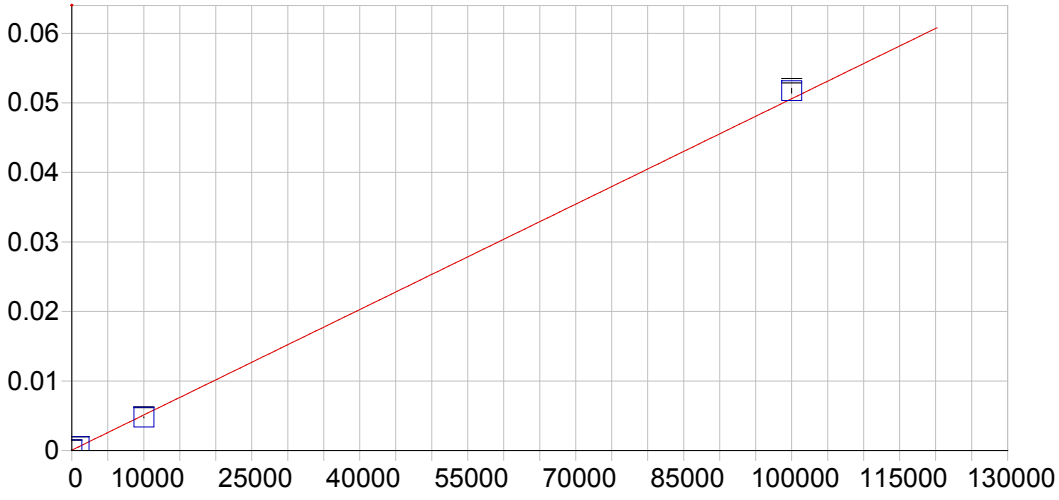


Al 167.079 {501}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998206	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.737709		
Predicted MQL:	2.459030		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00636	-.006	.000	.00000	.000	1
CalStd9=100	1000.0	991.50	-8.50	-.850	.00223	.000	1
CalStd5=10	10.000	16.218	6.22	62.2	.00004	.000	1
CalStd8=100	100.00	102.28	2.28	2.28	.00023	.000	1

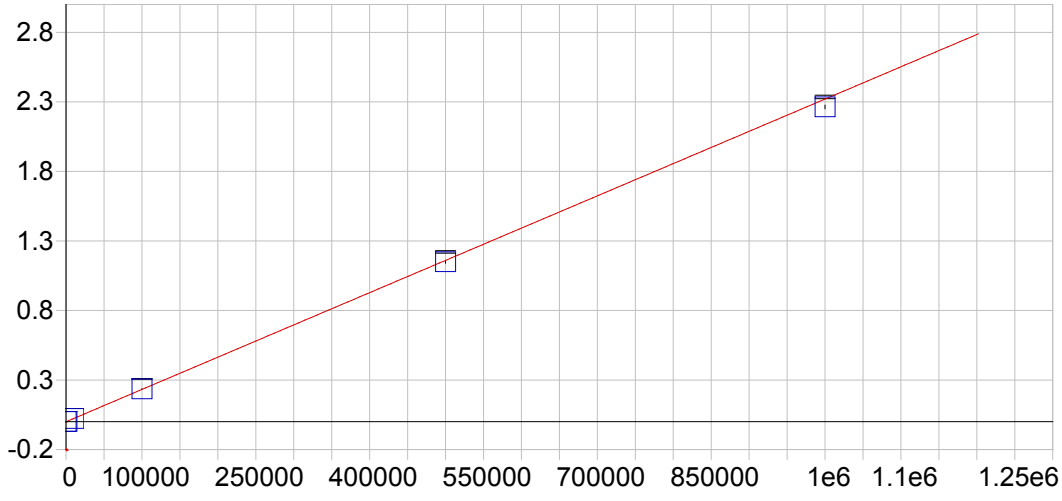


Al 308.215 {109}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.000056	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999177	Status:	OK.
Std Error of Est:	0.000067		
Predicted MDL:	16.214807		
Predicted MQL:	54.049357		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	51.047	51.0	.000	.00008	.000	1
CalStd10=10	10000.	9353.1	-647.	-6.47	.00478	.000	1
CalStd9=100	1000.0	968.24	-31.8	-3.18	.00055	.000	1
CalStd13=10	100000.	102270.	2270.	2.27	.05175	.000	1

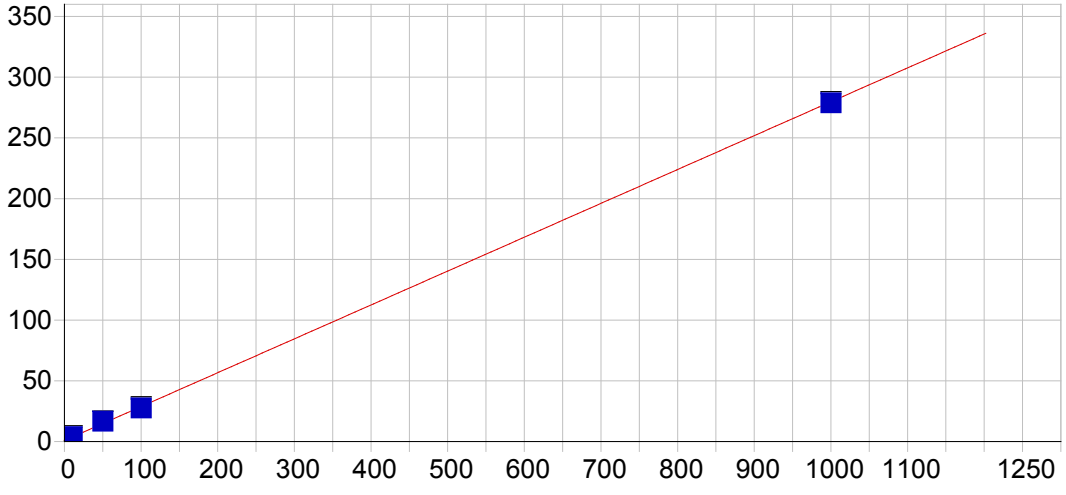


Al 396.152 { 85}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Var

A0 (Offset):	-0.000081	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999752	Status:	OK.
Std Error of Est:	0.000103		
Predicted MDL:	5.705642		
Predicted MQL:	19.018807		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	11.429	11.4	.000	-.00005	.000	1
CalStd14=50	500000.	495490.	-4510.	-.902	1.1496	.009	1
CalStd13=10	100000.	101730.	1730.	1.73	.23595	.001	1
CalStd10=10	10000.	9509.5	-490.	-4.90	.02198	.000	1
CalStd9=100	1000.0	960.77	-39.2	-3.92	.00215	.000	1
CalibStd15=	1000000.	975450.	-24500.	-2.45	2.2632	.013	1

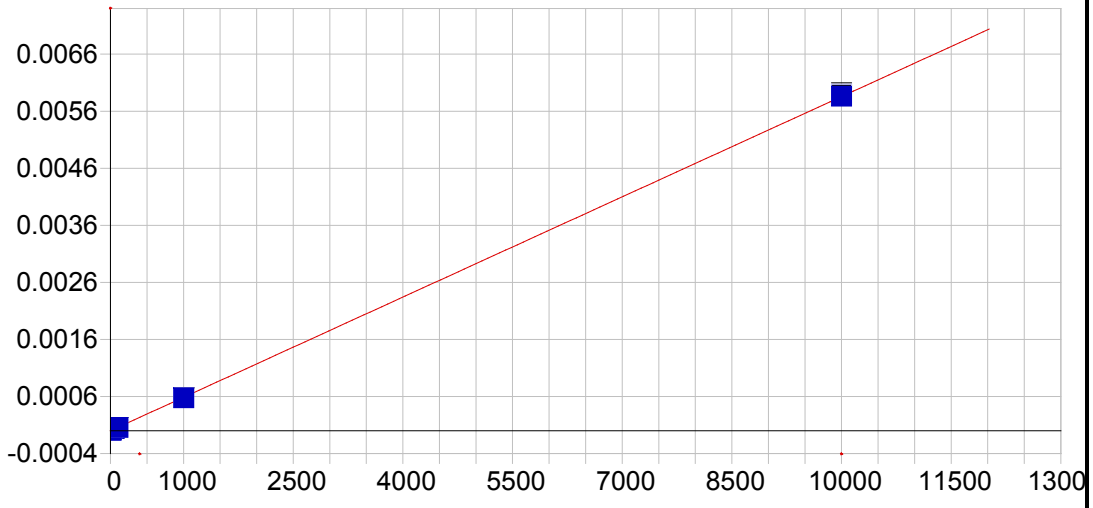


As 193.759 {474}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.904166	Re-Slope:	1.000000
A1 (Gain):	0.278862	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999491	Status:	OK.
Std Error of Est:	0.039136		
Predicted MDL:	3.720895		
Predicted MQL:	12.402985		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00181	-.002	.000	.90366	.201	1
CalStd9=100	1000.0	996.63	-3.37	-.337	278.93	.854	1
CalStd7=50	50.000	56.716	6.72	13.4	16.729	.241	1
CalStd5=10	10.000	10.930	.930	9.30	3.9551	.576	1
CalStd8=100	100.00	95.720	-4.28	-4.28	27.607	.919	1

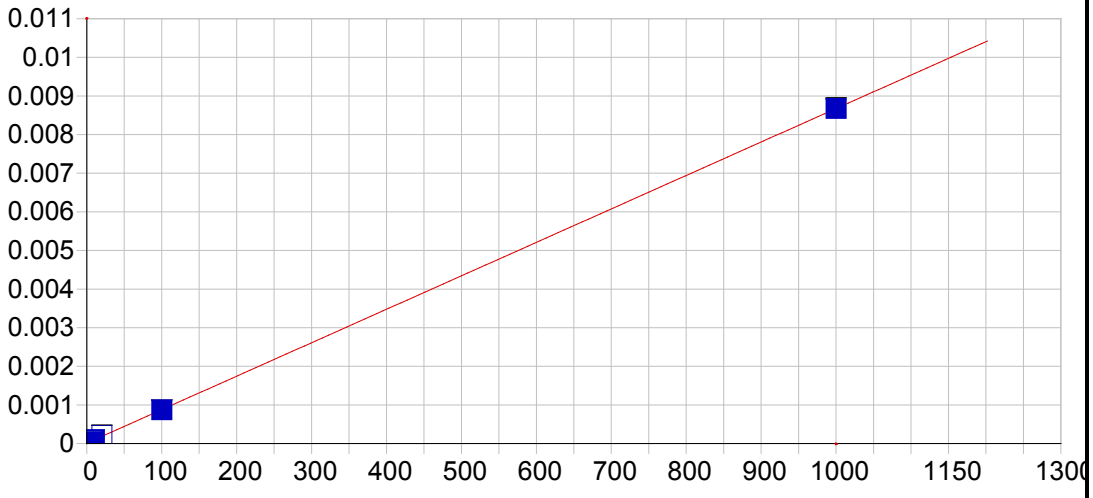


As 197.262 {471}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999855	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	5.645382		
Predicted MQL:	18.817941		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00402	-.004	.000	-.00000	.000	1
CalStd9=100	1000.0	981.20	-18.8	-1.88	.00058	.000	1
CalStd7=50	50.000	60.516	10.5	21.0	.00004	.000	1
CalStd5=10	10.000	12.440	2.44	24.4	.00001	.000	1
CalStd8=100	100.00	96.574	-3.43	-3.43	.00006	.000	1
CalStd10=10	10000.	10009.	9.35	.093	.00590	.000	1

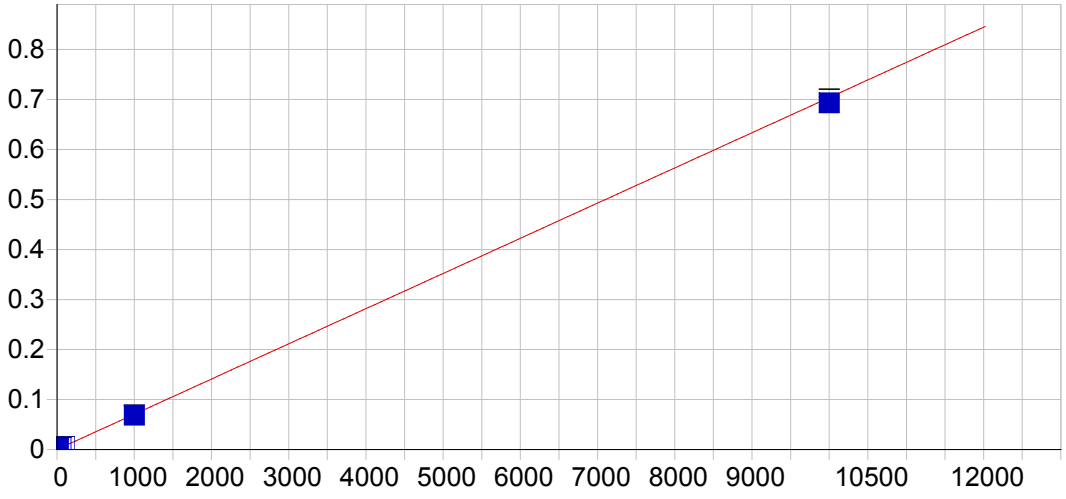


Ba 233.527 {445}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	0.363097		
Predicted MQL:	1.210324		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.0351	-1.04	.000	.00000	.000	1
CalStd5=10	10.000	10.317	.317	3.17	.00010	.000	1
CalStd6=20	20.000	23.678	3.68	18.4	.00022	.000	1
CalStd8=100	100.00	99.218	-.782	-.782	.00087	.000	1
CalStd4=5	5.0000	3.7914	-1.21	-24.2	.00004	.000	1
CalStd9=100	1000.0	1000.0	.008	.001	.00868	.000	1
CalStd3=1	1.0000	.02253	-.977	-97.7	.00001	.000	1

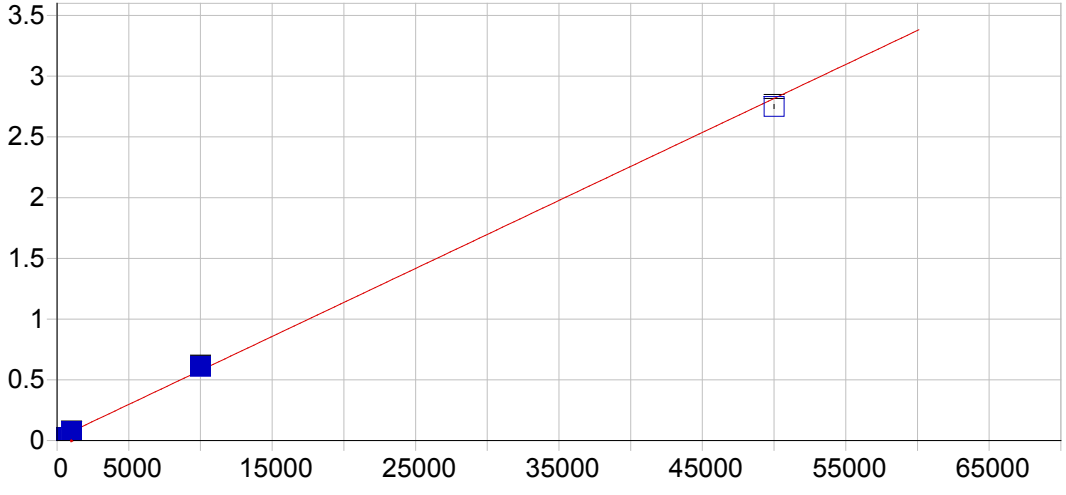


Ba 455.403 { 74}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.000306	Re-Slope:	1.000000
A1 (Gain):	0.000070	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996863	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.191725		
Predicted MQL:	0.639082		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.20968	-.210	.000	.00029	.000	1
CalStd7=50	50.000	60.276	10.3	20.6	.00455	.000	1
CalStd5=10	10.000	10.654	.654	6.54	.00106	.000	1
CalStd6=20	20.000	23.746	3.75	18.7	.00198	.000	1
CalStd8=100	100.00	96.106	-3.89	-3.89	.00707	.000	1
CalStd4=5	5.0000	4.6066	-.393	-7.87	.00063	.000	1
CalStd9=100	1000.0	967.99	-32.0	-3.20	.06842	.000	1
CalStd3=1	1.0000	.96473	-.035	-3.53	.00037	.000	1
CalStd10=10	10000.	9843.3	-157.	-1.57	.69293	.008	1

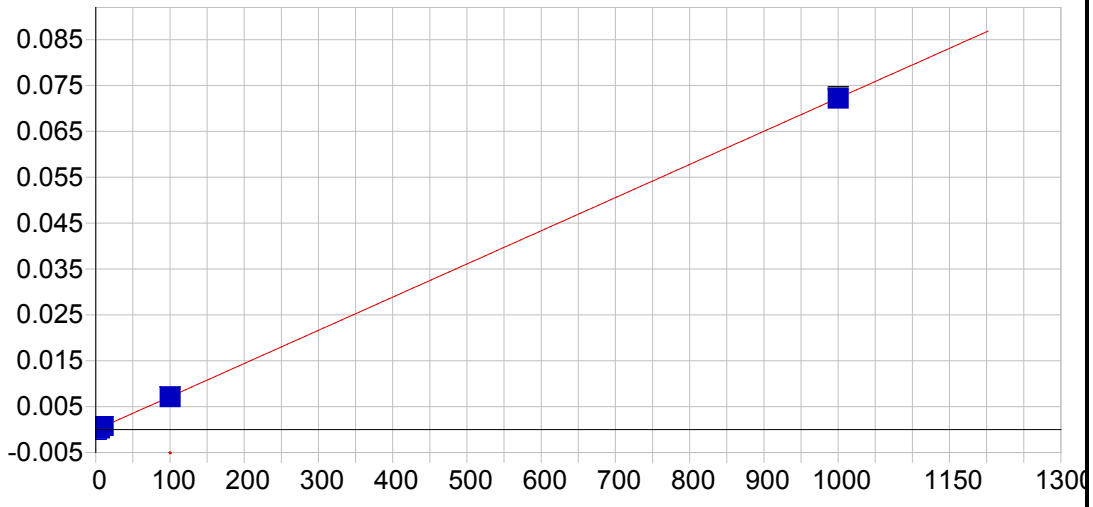


Ba 493.409 { 68}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.017438	Re-Slope:	1.000000
A1 (Gain):	0.000056	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999460	Status:	OK.
Std Error of Est:	0.000895		
Predicted MDL:	0.665757		
Predicted MQL:	2.219189		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.4731	-3.47	.000	.01724	.000	1
CalStd9=100	1000.0	1034.1	34.1	3.41	.07534	.001	1
CalStd8=100	100.00	102.12	2.12	2.12	.02316	.000	1
CalStd10=10	10000.	10588.	588.	5.88	.61028	.008	1
Ag Ba 1000,	50000.	48810.	-1190.	-2.38	2.7500	.016	1

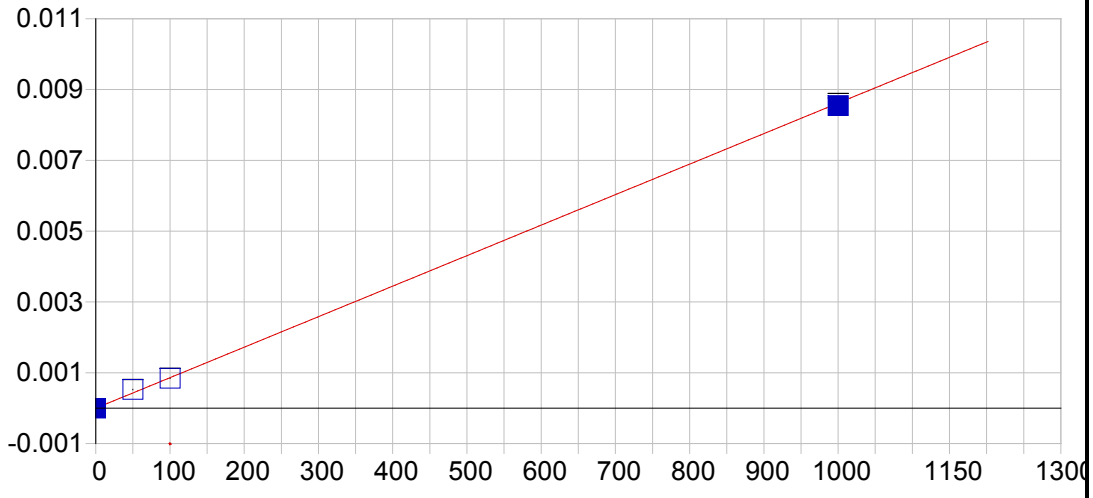


Be 313.042 {108}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000057	Re-Slope:	1.000000
A1 (Gain):	0.000072	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999879	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.031460		
Predicted MQL:	0.104865		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00029	-.000	.000	-.00006	.000	1
CalStd5=10	10.000	11.301	1.30	13.0	.00076	.000	1
CalStd8=100	100.00	99.153	-.847	-.847	.00711	.000	1
CalStd2=0.5	.50000	.59693	.097	19.4	-.00001	.000	1
CalStd4=5	5.0000	5.0134	.013	.268	.00031	.000	1
CalStd9=100	1000.0	999.16	-.836	-.084	.07220	.000	1
CalStd3=1	1.0000	1.2708	.271	27.1	.00003	.000	1

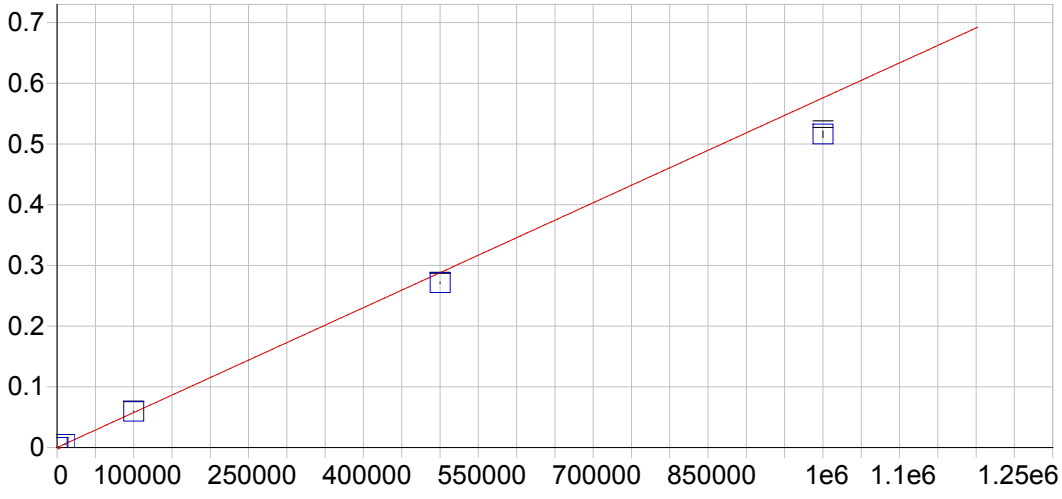


Be 234.861 {144}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998894	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.238568		
Predicted MQL:	0.795228		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00943	-.009	.000	-.00000	.000	1
CalStd9=100	1000.0	991.26	-8.74	-.874	.00854	.000	1
CalStd8=100	100.00	97.742	-2.26	-2.26	.00084	.000	1
CalStd7=50	50.000	60.998	11.0	22.0	.00052	.000	1

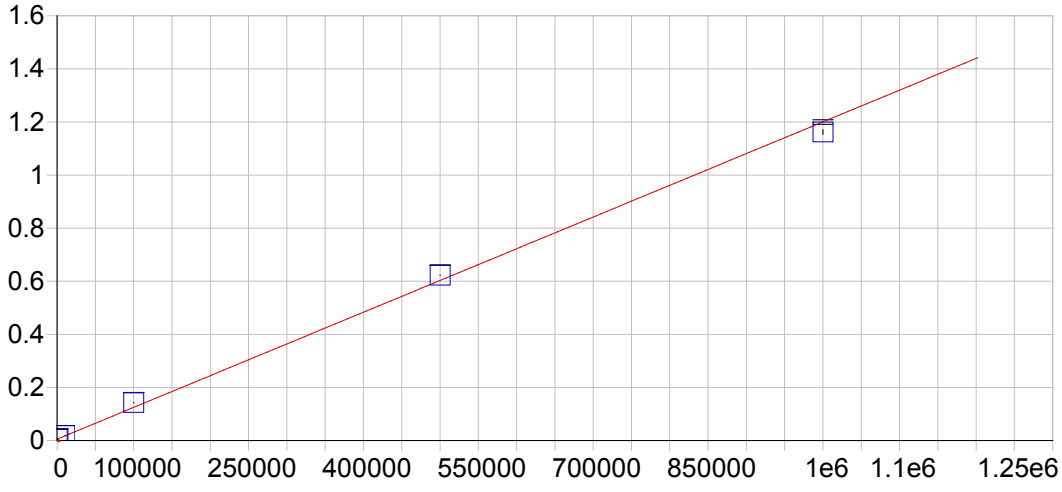


Ca 315.887 {107}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Var

A0 (Offset):	0.000067	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999628	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	5.272937		
Predicted MQL:	17.576455		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	23.383	23.4	.000	.00008	.000	1
CalStd10=10	10000.	9520.2	-480.	-4.80	.00555	.000	1
CalStd13=10	100000.	103170.	3170.	3.17	.05950	.000	1
CalStd14=50	500000.	471160.	-28800.	-5.77	.27147	.001	1
CalStd9=100	1000.0	951.07	-48.9	-4.89	.00061	.000	1
CalibStd15=	1000000.	896090.	-104000.	-10.4	.51624	.005	1

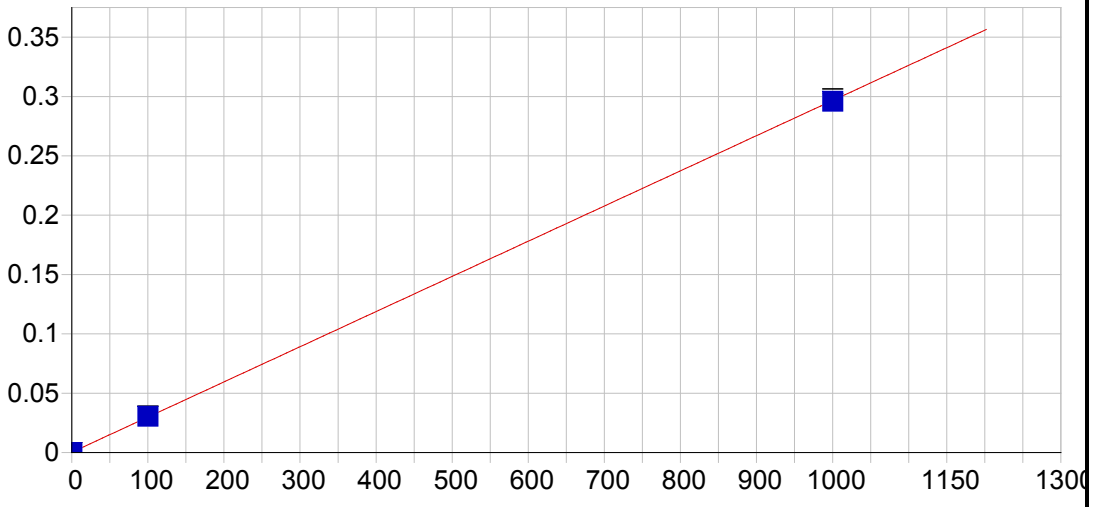


Ca 317.933 {106}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005371	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998790	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	3.302106		
Predicted MQL:	11.007019		

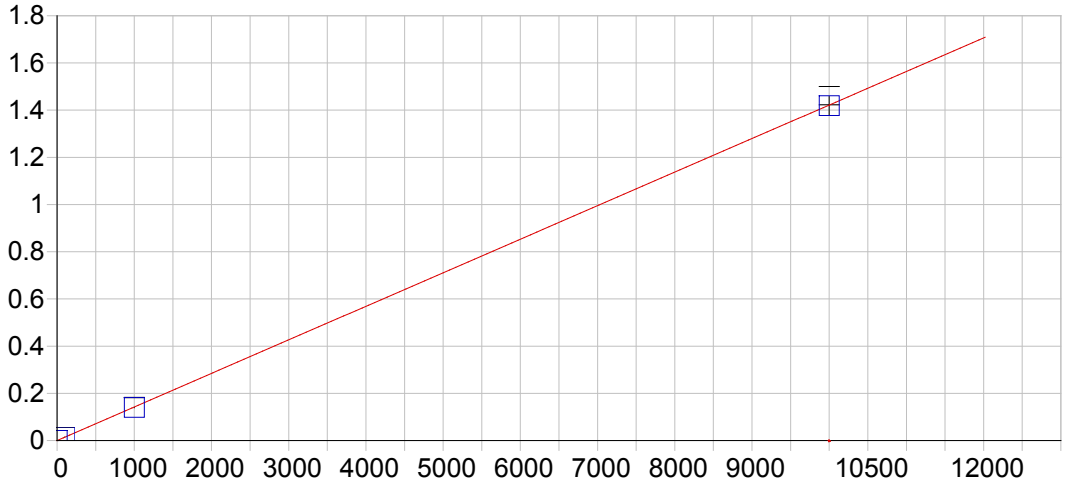
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.14919	-.149	.000	.00537	.000	1
CalStd10=10	10000.	10527.	527.	5.27	.01795	.000	1
CalStd13=10	100000.	115170.	15200.	15.2	.14299	.001	1
CalStd14=50	500000.	516480.	16500.	3.30	.62252	.001	1
CalStd9=100	1000.0	943.96	-56.0	-5.60	.00650	.000	1
CalibStd15=	1000000.	967880.	-32100.	-3.21	1.1619	.009	1



Ca 393.366 { 86}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000221		Re-Slope:	1.000000	
A1 (Gain):	0.000296		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.999974		Status:	OK.	
Std Error of Est:	0.000039				
Predicted MDL:	0.031856				
Predicted MQL:	0.106187				

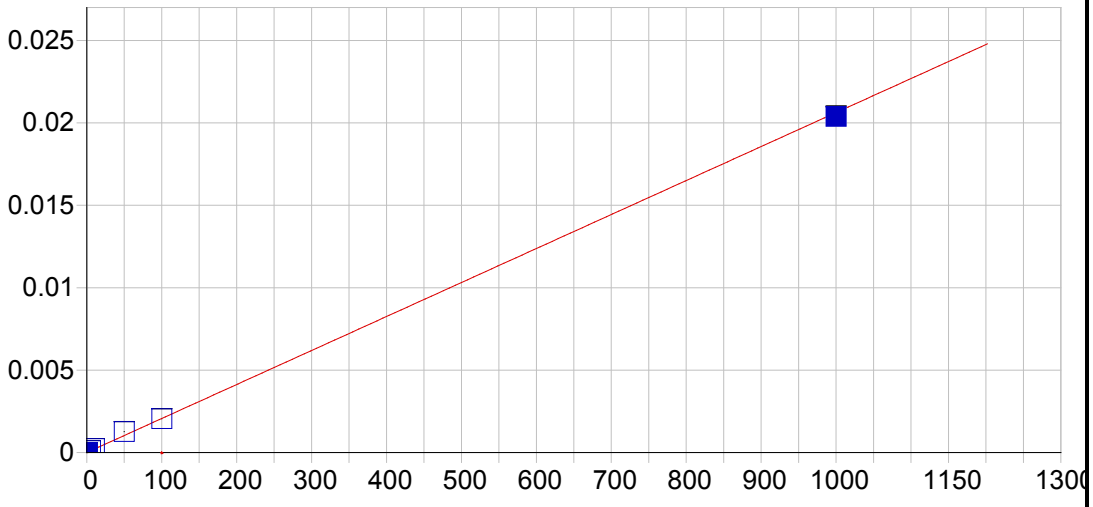
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00205	-.002	.000	.00022	.000	1
CalStd9=100	1000.0	997.72	-2.28	-.228	.29598	.002	1
CalStd8=100	100.00	102.28	2.28	2.28	.03054	.000	1



Ca 396.847 { 85}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var
A0 (Offset):	0.000089		Re-Slope:	1.000000	
A1 (Gain):	0.000142		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.999844		Status:	OK.	
Std Error of Est:	0.000034				
Predicted MDL:	0.065102				
Predicted MQL:	0.217008				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00703	-.007	.000	.00009	.000	1
CalStd10=10	10000.	9979.0	-21.0	-.210	1.4188	.039	1
CalStd8=100	100.00	101.93	1.93	1.93	.01458	.000	1
CalStd9=100	1000.0	983.57	-16.4	-1.64	.13993	.001	1

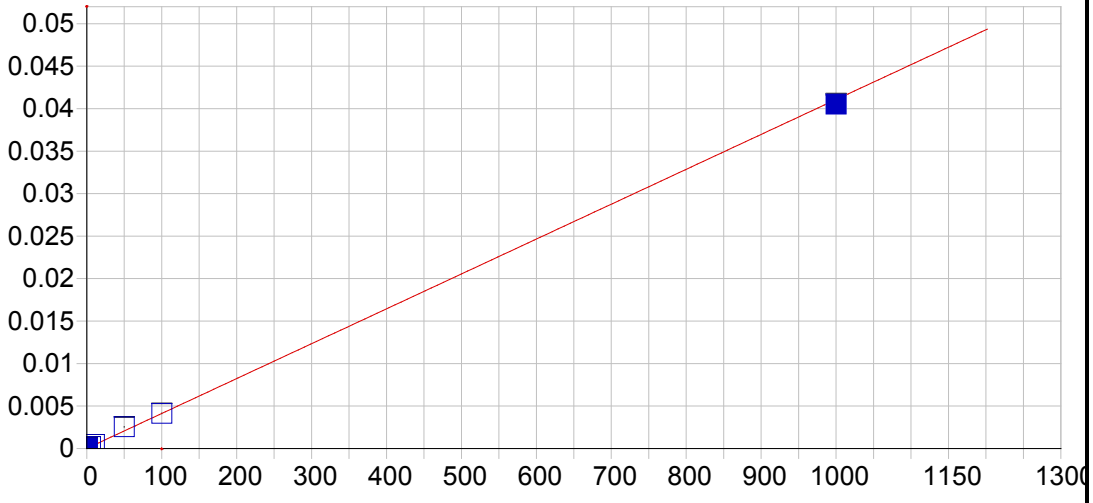


Cd 226.502 {449}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998764	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.211805		
Predicted MQL:	0.706018		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00008	-.000	.000	.00000	.000	1
CalStd7=50	50.000	61.372	11.4	22.7	.00127	.000	1
CalStd3=1	1.0000	.99212	-.008	-.788	.00002	.000	1
CalStd2=0.5	.50000	.43691	-.063	-12.6	.00001	.000	1
CalStd4=5	5.0000	4.8650	-.135	-2.70	.00010	.000	1
CalStd8=100	100.00	99.340	-.660	-.660	.00205	.000	1
CalStd5=10	10.000	11.219	1.22	12.2	.00023	.000	1
CalStd9=100	1000.0	988.28	-11.7	-1.17	.02039	.000	1

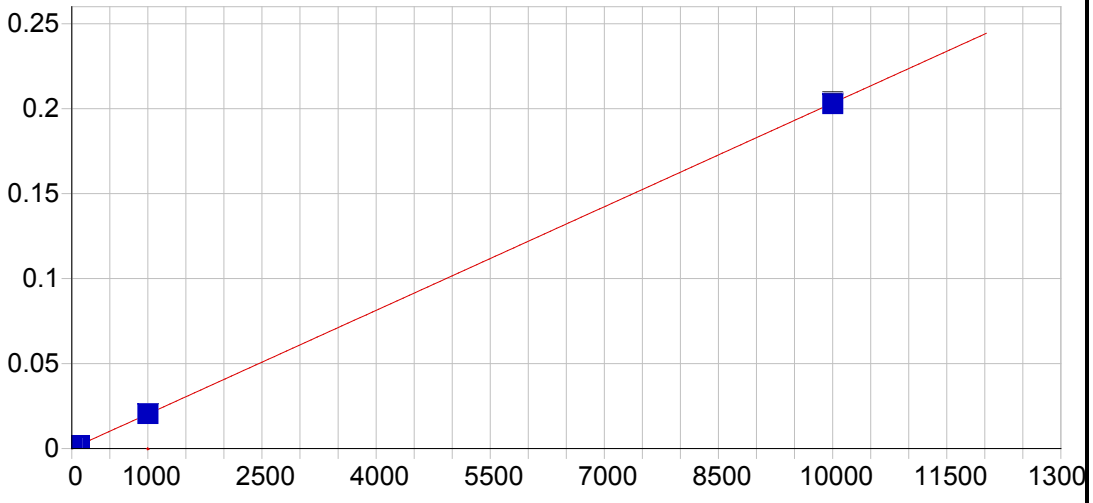


Cd 228.802 {447}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000021	Re-Slope:	1.000000
A1 (Gain):	0.000041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998627	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.182770		
Predicted MQL:	0.609234		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00051	-.001	.000	.00002	.000	1
CalStd7=50	50.000	61.503	11.5	23.0	.00255	.000	1
CalStd3=1	1.0000	1.3624	.362	36.2	.00008	.000	1
CalStd2=0.5	.50000	.64368	.144	28.7	.00005	.000	1
CalStd4=5	5.0000	4.9979	-.002	-.042	.00023	.000	1
CalStd8=100	100.00	100.08	.082	.082	.00413	.000	1
CalStd5=10	10.000	11.439	1.44	14.4	.00049	.000	1
CalStd9=100	1000.0	986.47	-13.5	-1.35	.04052	.000	1

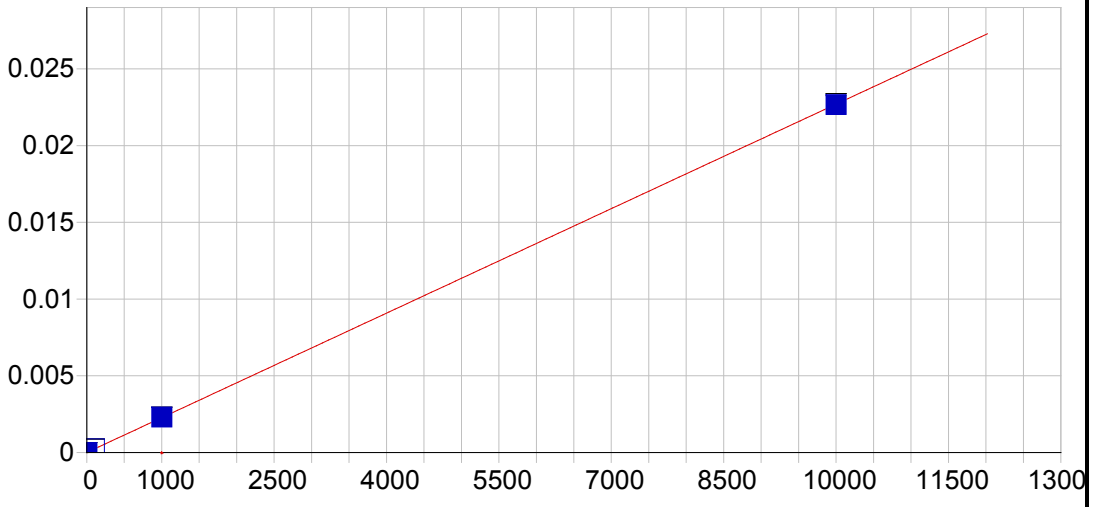


Co 228.616 {447}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000020	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.266162		
Predicted MQL:	0.887205		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00072	-.001	.000	.00001	.000	1
CalStd7=50	50.000	62.951	13.0	25.9	.00129	.000	1
CalStd5=10	10.000	11.596	1.60	16.0	.00024	.000	1
CalStd4=5	5.0000	5.2507	.251	5.01	.00012	.000	1
CalStd8=100	100.00	100.93	.935	.935	.00206	.000	1
CalStd9=100	1000.0	1006.3	6.33	.633	.02050	.000	1
CalStd3=1	1.0000	1.2377	.238	23.8	.00003	.000	1
CalStd10=10	10000.	9977.7	-22.3	-.223	.20342	.000	1

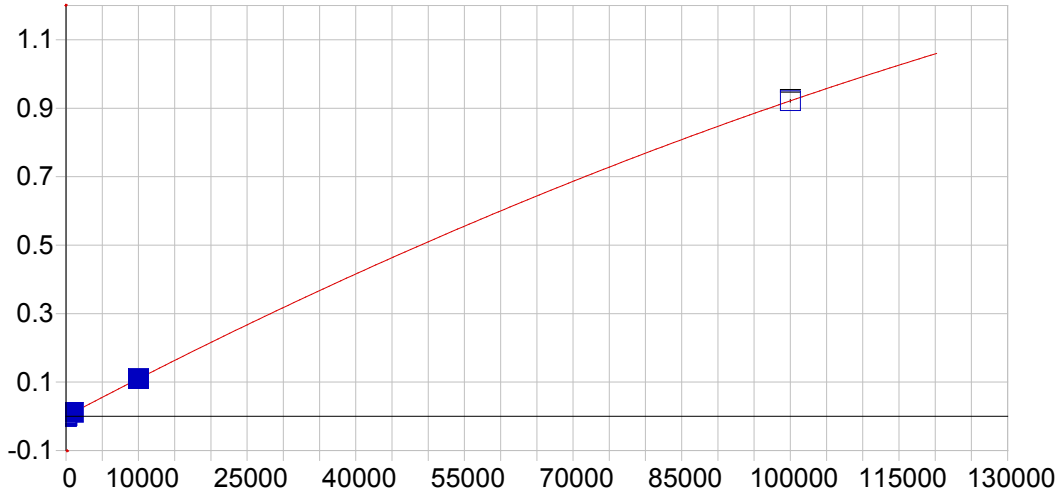


Co 238.892 {141}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.664651		
Predicted MQL:	2.215505		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00293	-.003	.000	.00000	.000	1
CalStd9=100	1000.0	1012.9	12.9	1.29	.00230	.000	1
CalStd10=10	10000.	9985.3	-14.7	-.147	.02267	.000	1
CalStd8=100	100.00	101.78	1.78	1.78	.00023	.000	1

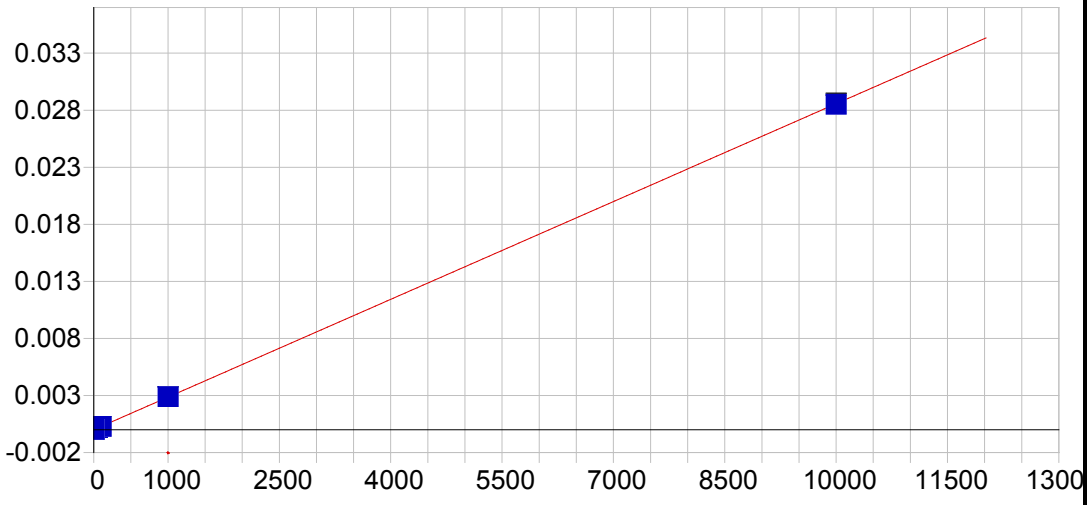


Cr 205.560 {464}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000011	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.316891		
Predicted MQL:	1.056303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00117	-.001	.000	-.00001	.000	1
CalStd5=10	10.000	11.329	1.33	13.3	.00012	.000	1
CalStd7=50	50.000	62.196	12.2	24.4	.00069	.000	1
CalStd9=100	1000.0	990.85	-9.15	-.915	.01105	.000	1
CalStd8=100	100.00	98.405	-1.59	-1.59	.00109	.000	1
CalStd4=5	5.0000	5.4845	.485	9.69	.00005	.000	1
CalStd3=1	1.0000	1.7182	.718	71.8	.00001	.000	1
CalStd10=10	10000.	9995.3	-4.72	-.047	.10976	.000	1
CalStd12=10	100000.	100000.	.835	.001	.92152	.004	1

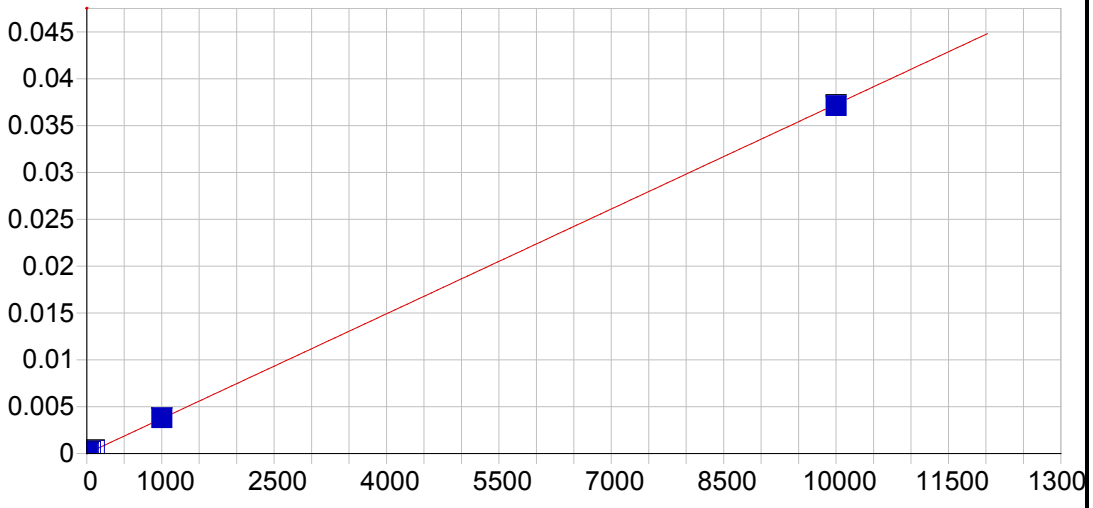


Cr 267.716 {126}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999861	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.677858		
Predicted MQL:	2.259527		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00154	-.002	.000	.00000	.000	1
CalStd5=10	10.000	10.661	.661	6.61	.00003	.000	1
CalStd7=50	50.000	62.089	12.1	24.2	.00018	.000	1
CalStd9=100	1000.0	1009.6	9.63	.963	.00288	.000	1
CalStd8=100	100.00	98.917	-1.08	-1.08	.00028	.000	1
CalStd4=5	5.0000	5.0162	.016	.325	.00001	.000	1
CalStd10=10	10000.	9978.7	-21.3	-.213	.02851	.000	1

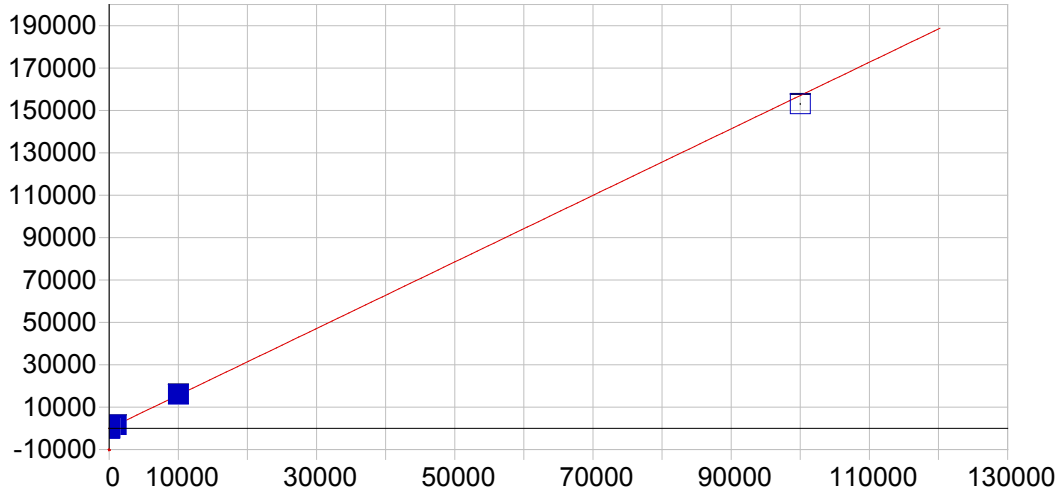


Cu 223.008 {451}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999639	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.352372		
Predicted MQL:	4.507906		

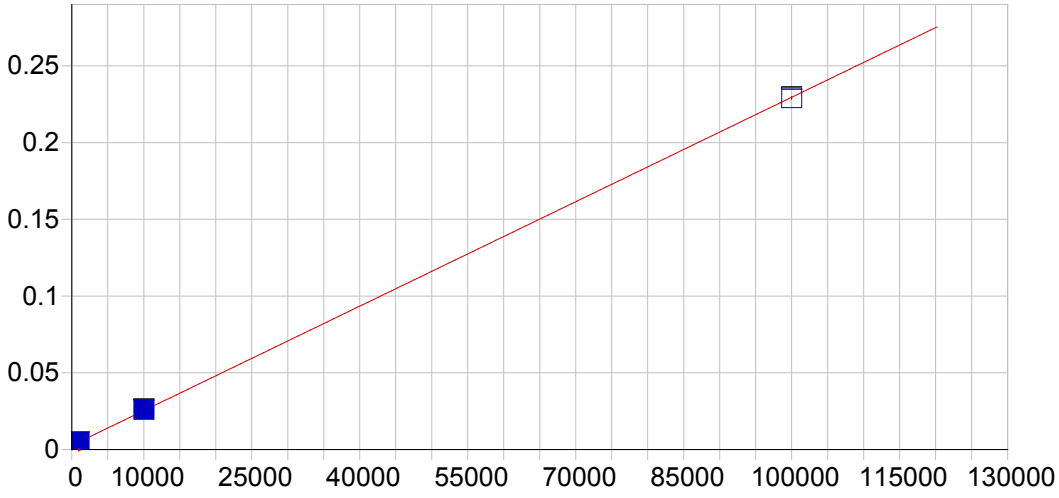
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00851	-.009	.000	.00000	.000	1
CalStd9=100	1000.0	1018.7	18.7	1.87	.00380	.000	1
CalStd7=50	50.000	66.291	16.3	32.6	.00025	.000	1
CalStd8=100	100.00	101.19	1.19	1.19	.00038	.000	1
CalStd6=20	20.000	26.038	6.04	30.2	.00010	.000	1
CalStd10=10	10000.	9955.8	-44.2	-.442	.03712	.000	1
CalStd5=10	10.000	11.968	1.97	19.7	.00005	.000	1



Cu 224.700 {450}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var
A0 (Offset):	-32.187136		Re-Slope:	1.000000	
A1 (Gain):	1.570908		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.996310		Status:	OK.	
Std Error of Est:	28.767278				
Predicted MDL:	0.574075				
Predicted MQL:	1.913584				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	20.566	20.6	.000	.12068	.623	1
CalStd9=100	1000.0	1033.0	33.0	3.30	1579.5	3.65	1
CalStd7=50	50.000	37.965	-12.0	-24.1	27.452	.429	1
CalStd8=100	100.00	69.557	-30.4	-30.4	75.975	.643	1
CalStd6=20	20.000	27.262	7.26	36.3	10.640	.297	1
CalStd12=10	100000.	97472.	-2530.	-2.53	153090.	225.	1
CalStd10=10	10000.	10268.	268.	2.68	15988.	15.2	1

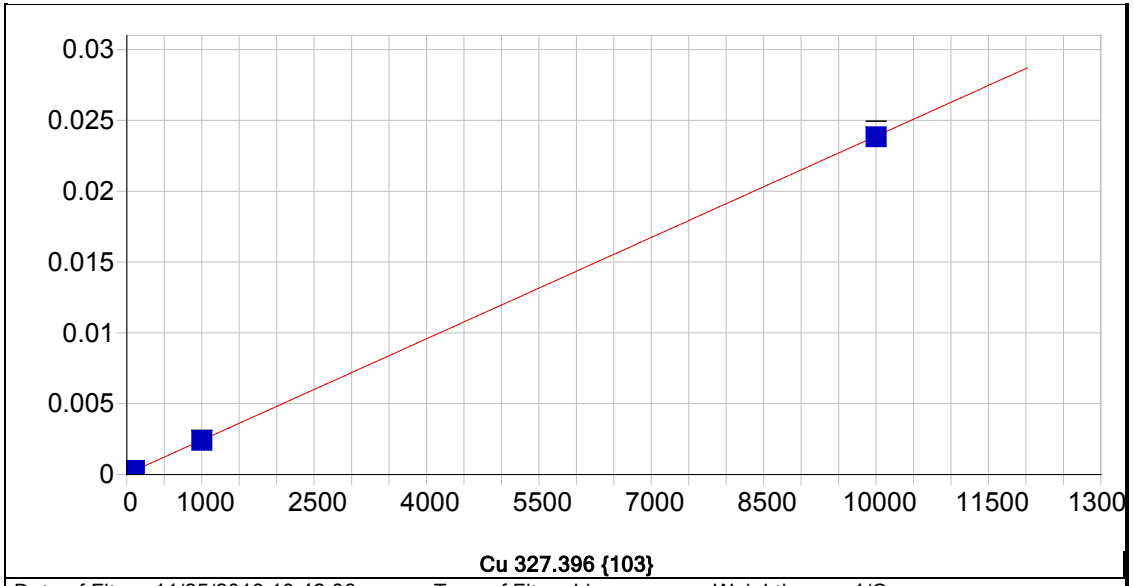


Cu 324.754 {104}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.002673	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999807	Status:	OK.
Std Error of Est:	0.000065		
Predicted MDL:	3.296110		
Predicted MQL:	10.987033		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	19.401	19.4	.000	.00272	.000	1
CalStd9=100	1000.0	1000.5	.487	.049	.00494	.000	1
CalStd8=100	100.00	123.09	23.1	23.1	.00295	.000	1
CalStd10=10	10000.	10299.	299.	2.99	.02603	.000	1
CalStd12=10	100000.	99794.	-206.	-.206	.22911	.001	1
CalStd5=10	10.000	-7.1346	-17.1	-171.	.00266	.000	1
CalStd6=20	20.000	81.626	61.6	308.	.00286	.000	1
CalStd7=50	50.000	56.209	6.21	12.4	.00280	.000	1

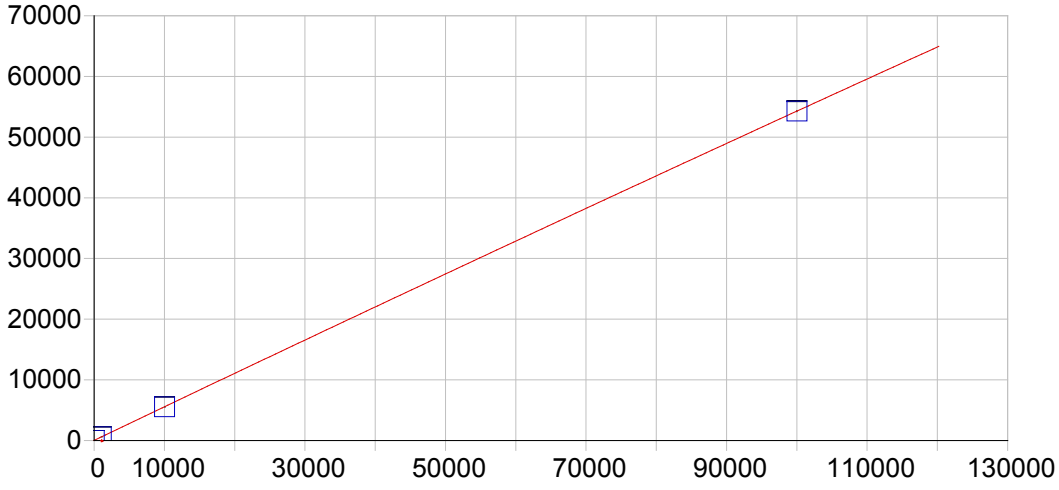


Cu 327.396 {103}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000042	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999315	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	4.057298		
Predicted MQL:	13.524326		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01089	-.011	.000	.00004	.000	1
CalStd6=20	20.000	27.103	7.10	35.5	.00011	.000	1
CalStd7=50	50.000	63.840	13.8	27.7	.00019	.000	1
CalStd8=100	100.00	99.193	-.807	-.807	.00028	.000	1
CalStd9=100	1000.0	991.44	-8.56	-.856	.00241	.000	1
CalStd10=10	10000.	9976.9	-23.1	-.231	.02384	.000	1
CalStd4=5	5.0000	9.1687	4.17	83.4	.00006	.000	1
CalStd5=10	10.000	17.321	7.32	73.2	.00008	.000	1

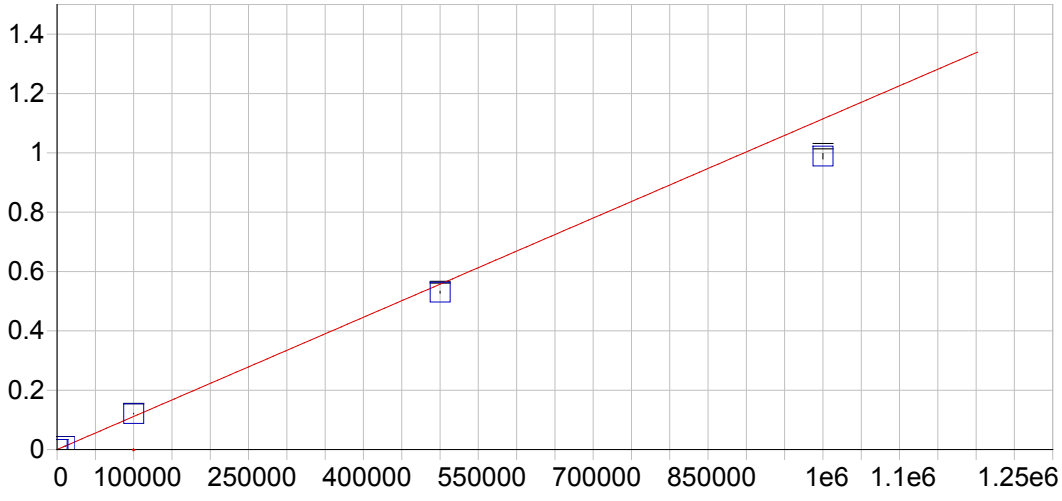


Fe 234.349 {144}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	37.314437	Re-Slope:	1.000000
A1 (Gain):	0.554113	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	1.168296		
Predicted MDL:	1.794085		
Predicted MQL:	5.980284		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02806	-.028	.000	37.299	.746	1
CalStd10=10	10000.	9965.2	-34.8	-.348	5547.6	3.10	1
CalStd13=10	100000.	100000.	3.29	.003	54281.	88.1	1
CalStd9=100	1000.0	1031.5	31.5	3.15	608.76	4.27	1

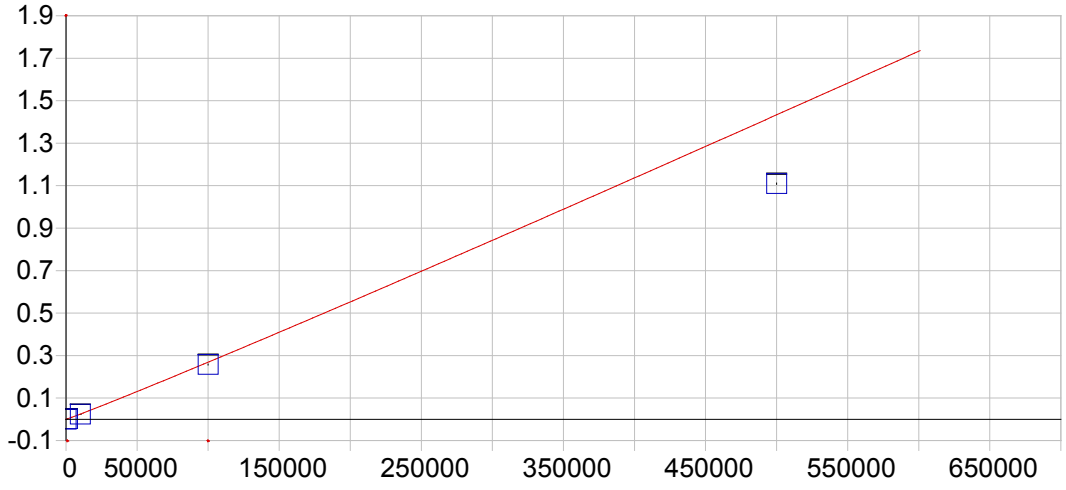


Fe 239.562 {140}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997470	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	2.645304		
Predicted MQL:	8.817679		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.14323	-.143	.000	.00000	.000	1
CalStd10=10	10000.	10075.	75.2	.752	.01123	.000	1
CalStd13=10	100000.	108620.	8620.	8.62	.12107	.001	1
CalStd14=50	500000.	475770.	-24200.	-4.85	.53030	.003	1
CalStd9=100	1000.0	1001.3	1.28	.128	.00112	.000	1
CalibStd15=	1000000.	887200.	-113000.	-11.3	.98887	.009	1

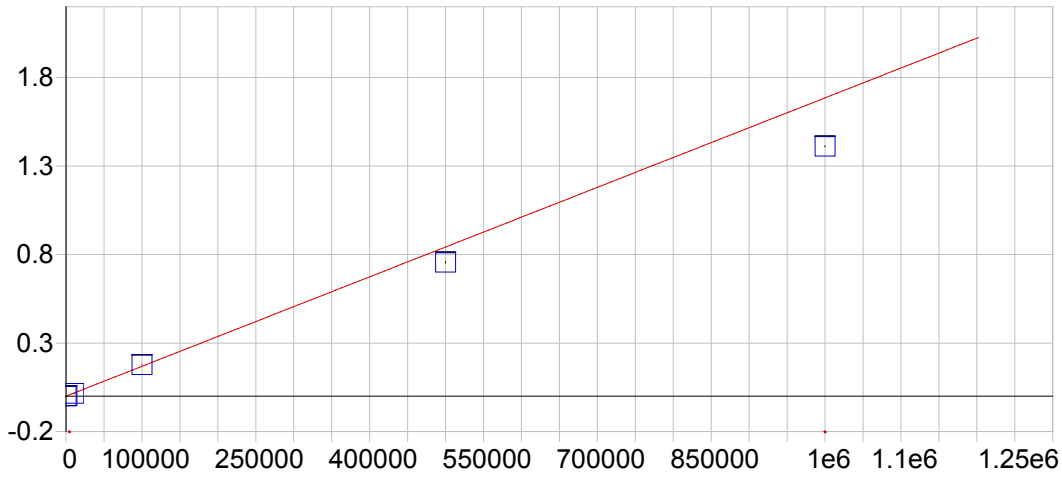


Fe 259.940 {129}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.040000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	2.266310		
Predicted MQL:	7.554367		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1
CalStd10=10	10000.	9745.5	-254.	-2.54	.02387	.000	1
CalStd13=10	100000.	96082.	-3920.	-3.92	.25786	.002	1
CalStd14=50	500000.	390740.	-109000.	-21.9	1.1092	.003	1
CalStd9=100	1000.0	1065.1	65.1	6.51	.00239	.000	1

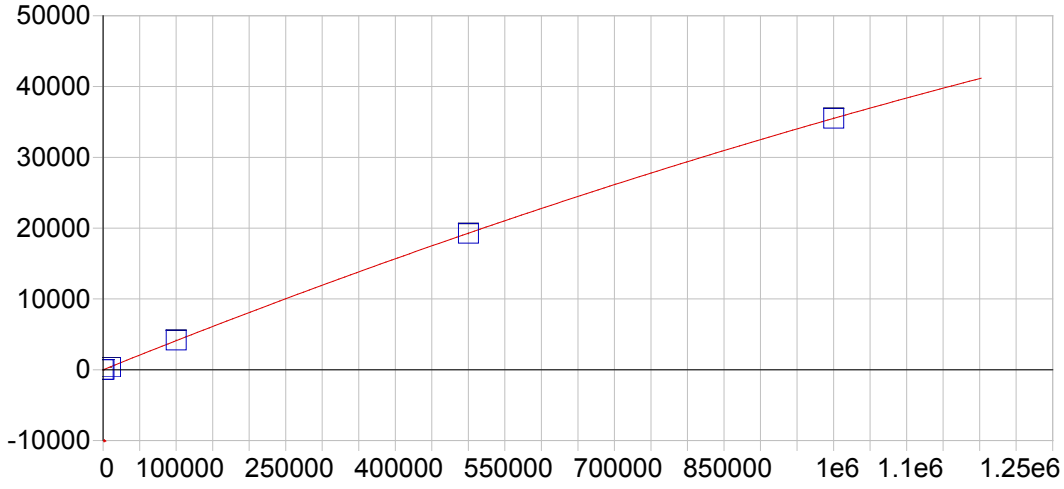


Mg 202.582 {466}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999690	Status:	OK.
Std Error of Est:	0.000066		
Predicted MDL:	2.448181		
Predicted MQL:	8.160602		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.08311	.083	.000	-.00001	.000	1
CalStd13=10	100000.	104980.	4980.	4.98	.17689	.000	1
CalStd10=10	10000.	8977.5	-1020.	-10.2	.01512	.000	1
CalStd14=50	500000.	448480.	-51500.	-10.3	.75573	.003	1
CalStd9=100	1000.0	966.38	-33.6	-3.36	.00162	.000	1
CalibStd15=	1000000.	837820.	-162000.	-16.2	1.4118	.002	1

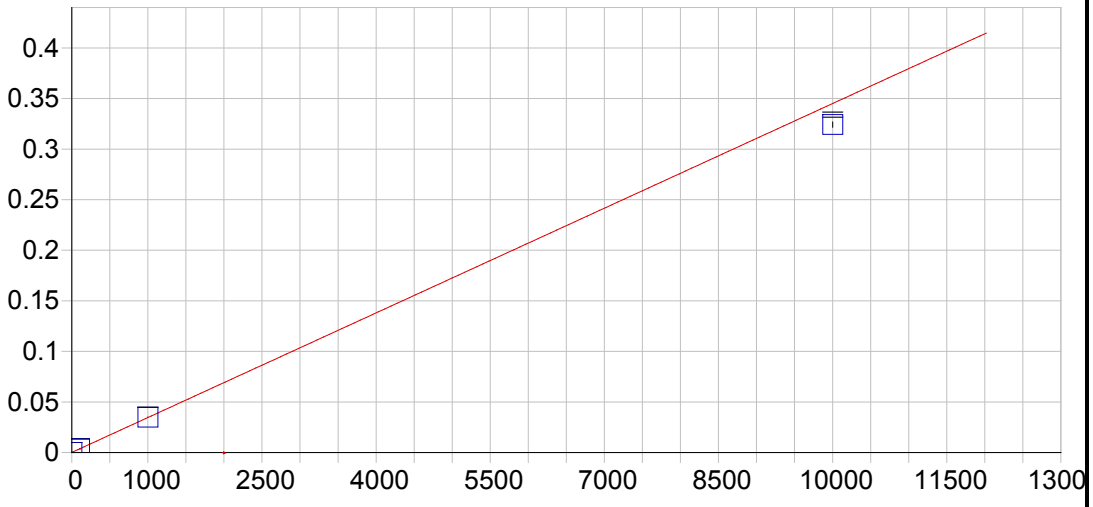


Mg 279.079 {121}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.335327	Re-Slope:	1.000000
A1 (Gain):	0.041644	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.653871		
Predicted MDL:	19.055073		
Predicted MQL:	63.516910		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.18947	.189	.000	-.32744	.508	1
CalStd13=10	100000.	101690.	1690.	1.69	4171.1	12.7	1
CalStd10=10	10000.	9094.7	-905.	-9.05	377.90	1.74	1
CalStd14=50	500000.	498900.	-1100.	-.221	19247.	35.8	1
CalStd9=100	1000.0	885.91	-114.	-11.4	36.553	.253	1
CalibStd15=	1000000.	1000400.	448.	.045	35515.	27.1	1

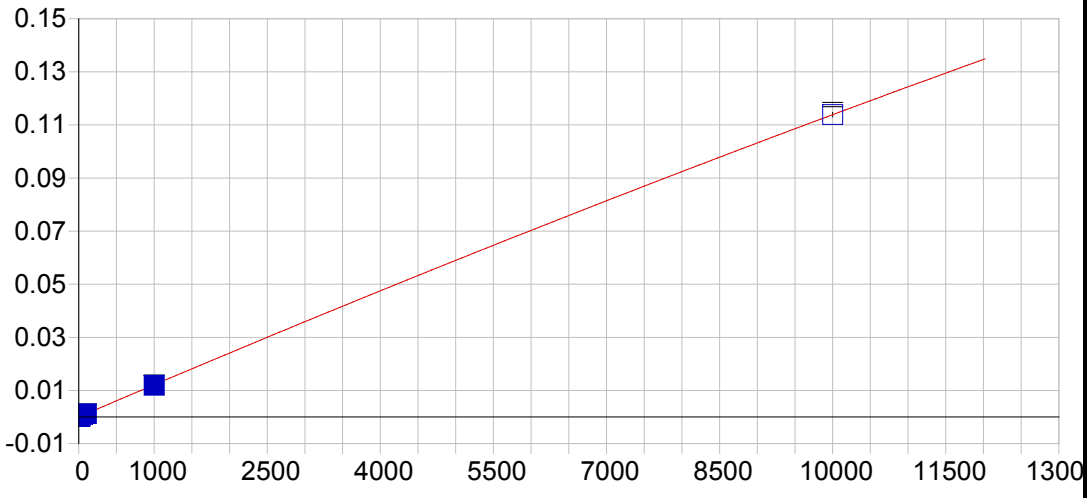


Mg 280.270 {120}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.000093	Re-Slope:	1.000000
A1 (Gain):	0.000034	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999584	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.030421		
Predicted MQL:	0.101402		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.01523	-.015	.000	.00009	.000	1
CalStd9=100	1000.0	1007.9	7.87	.787	.03486	.000	1
CalStd10=10	10000.	9396.2	-604.	-6.04	.32423	.003	1
CalStd8=100	100.00	101.75	1.75	1.75	.00360	.000	1

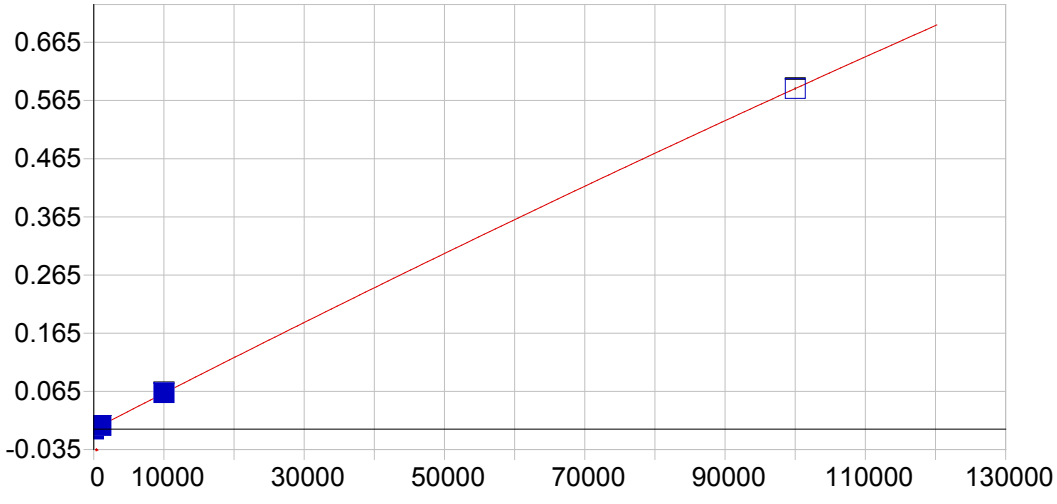


Mn 257.610 {131}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000012	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999767	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.084012		
Predicted MQL:	0.280041		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00317	-.003	.000	-.00000	.000	1
CalStd5=10	10.000	11.475	1.48	14.8	.00014	.000	1
CalStd7=50	50.000	62.306	12.3	24.6	.00076	.000	1
CalStd6=20	20.000	24.398	4.40	22.0	.00029	.000	1
CalStd8=100	100.00	97.896	-2.10	-2.10	.00119	.000	1
CalStd4=5	5.0000	5.3026	.303	6.05	.00006	.000	1
CalStd9=100	1000.0	981.62	-18.4	-1.84	.01190	.000	1
CalStd10=10	10000.	10002.	2.04	.020	.11389	.001	1

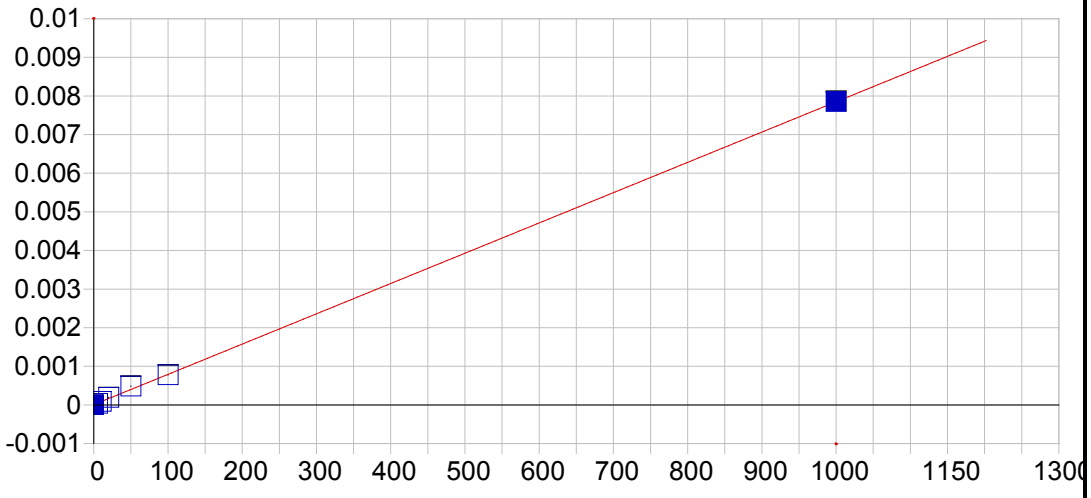


Mn 259.373 {130}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Var

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999998	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.509900		
Predicted MQL:	1.699666		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00959	.010	.000	-.00000	.000	1
CalStd10=10	10000.	10117.	117.	1.17	.06268	.001	1
CalStd9=100	1000.0	994.98	-5.02	-.502	.00620	.000	1
CalStd12=10	100000.	99997.	-2.62	-.003	.58552	.001	1

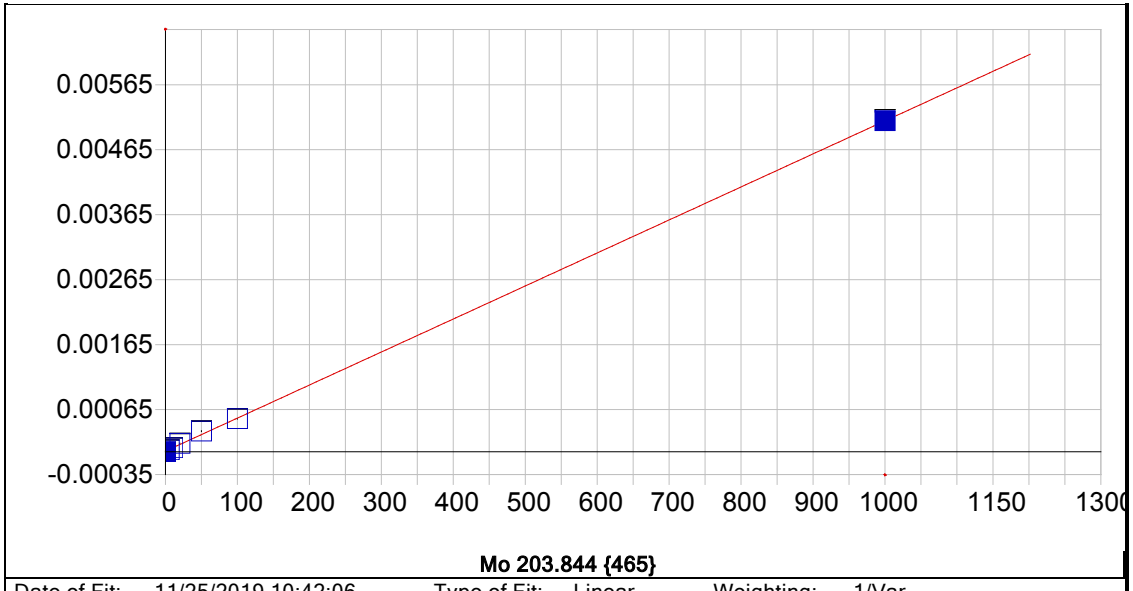


Mo 202.030 {466}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999451	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.419192		
Predicted MQL:	1.397307		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.90666	-.907	.000	-.00000	.000	1
CalStd7=50	50.000	61.054	11.1	22.1	.00049	.000	1
CalStd6=20	20.000	23.969	3.97	19.8	.00019	.000	1
CalStd5=10	10.000	10.795	.795	7.95	.00009	.000	1
CalStd8=100	100.00	98.189	-1.81	-1.81	.00078	.000	1
CalStd4=5	5.0000	4.5071	-.493	-9.86	.00004	.000	1
CalStd9=100	1000.0	1000.6	.647	.065	.00785	.000	1

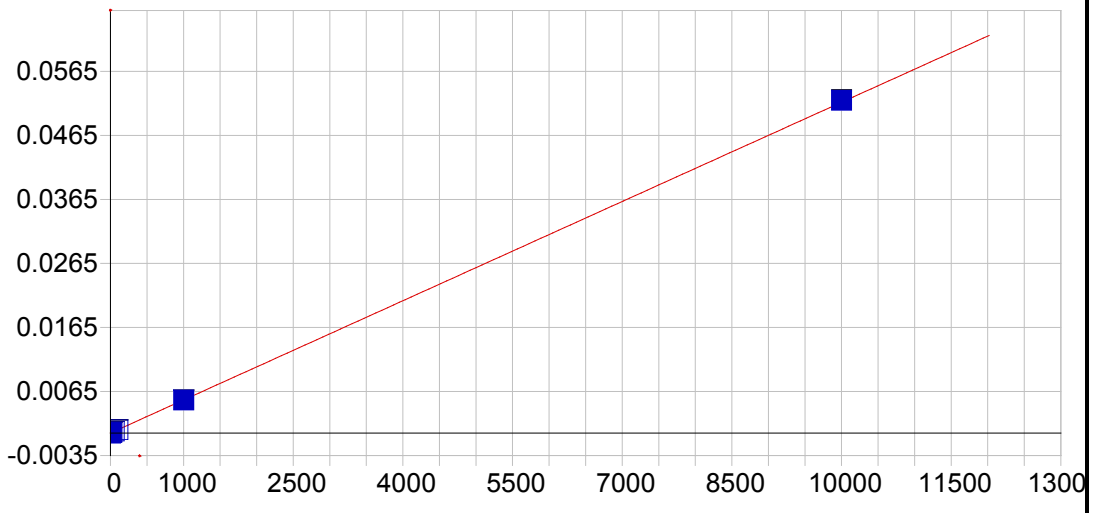


Mo 203.844 {465}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999458	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.832639		
Predicted MQL:	2.775464		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.9726	-1.97	.000	.00000	.000	1
CalStd7=50	50.000	60.333	10.3	20.7	.00032	.000	1
CalStd6=20	20.000	23.118	3.12	15.6	.00013	.000	1
CalStd5=10	10.000	9.6777	-.322	-3.22	.00006	.000	1
CalStd8=100	100.00	97.678	-2.32	-2.32	.00051	.000	1
CalStd4=5	5.0000	3.3669	-1.63	-32.7	.00003	.000	1
CalStd9=100	1000.0	1000.2	.214	.021	.00509	.000	1

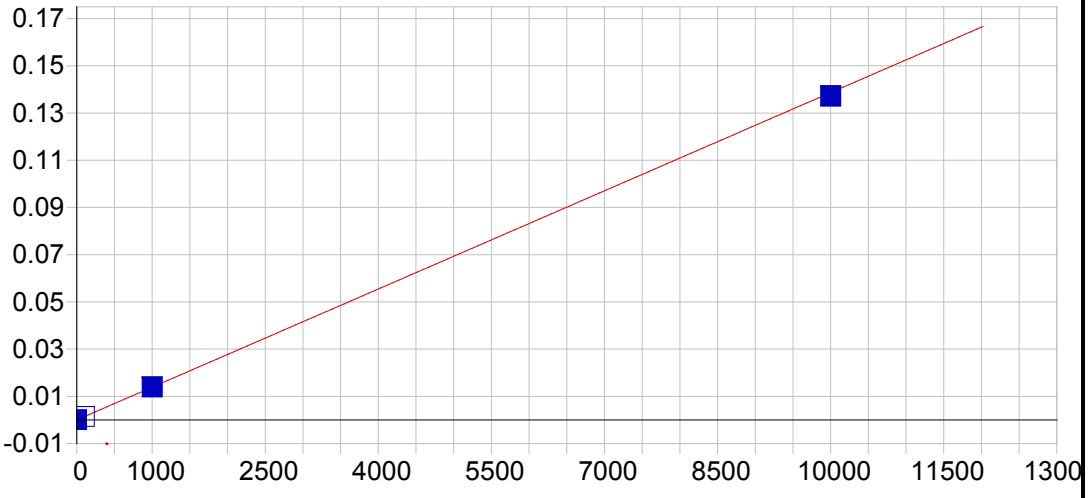


Mo 204.598 {464}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.000011	Re-Slope:	1.000000
A1 (Gain):	0.000005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999840	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.761798		
Predicted MQL:	2.539326		

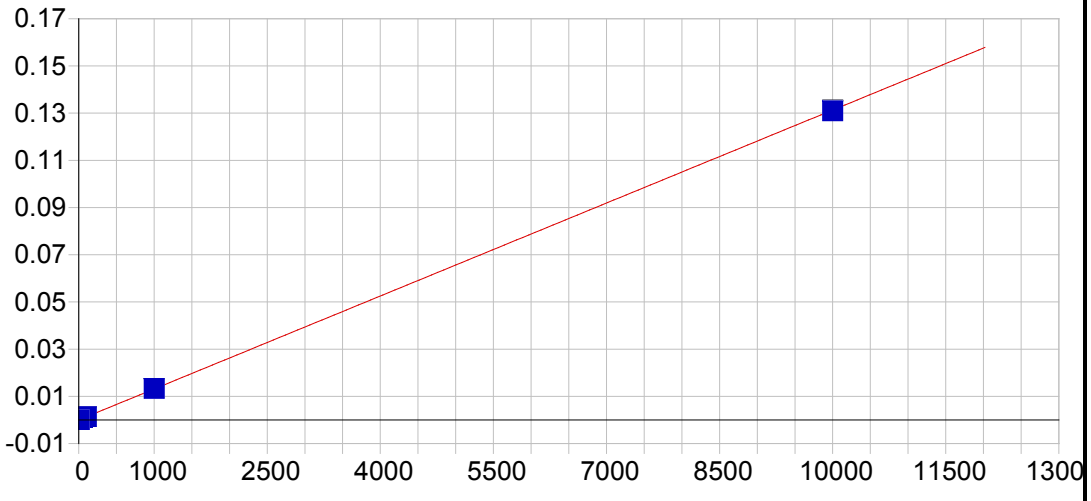
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.0924	-3.09	.000	-.00001	.000	1
CalStd7=50	50.000	58.827	8.83	17.7	.00031	.000	1
CalStd6=20	20.000	21.316	1.32	6.58	.00012	.000	1
CalStd5=10	10.000	8.1603	-1.84	-18.4	.00005	.000	1
CalStd8=100	100.00	96.386	-3.61	-3.61	.00051	.000	1
CalStd4=5	5.0000	2.0330	-2.97	-59.3	.00002	.000	1
CalStd9=100	1000.0	996.45	-3.55	-.355	.00516	.000	1
CalStd10=10	10000.	10056.	56.1	.561	.05197	.000	1



Ni 221.647 {452}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var
A0 (Offset):	0.000001		Re-Slope:	1.000000	
A1 (Gain):	0.000014		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.999981		Status:	OK.	
Std Error of Est:	0.000010				
Predicted MDL:	0.456797				
Predicted MQL:	1.522658				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.06980	-.070	.000	.00000	.000	1
CalStd10=10	10000.	9886.8	-113.	-1.13	.13709	.000	1
CalStd8=100	100.00	100.40	.398	.398	.00139	.000	1
CalStd9=100	1000.0	1003.0	3.02	.302	.01391	.000	1

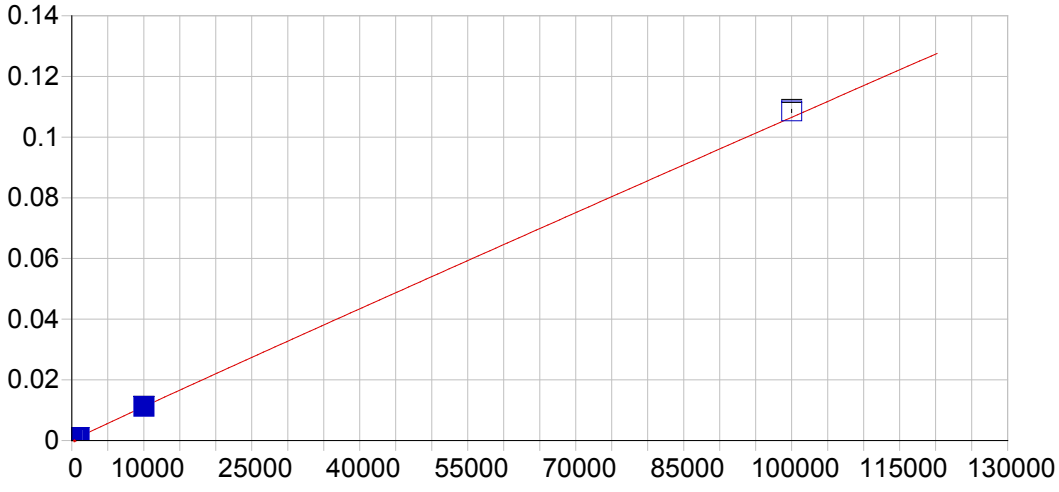


Ni 231.604 {445}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000021	Re-Slope:	1.000000
A1 (Gain):	0.000013	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999818	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.475843		
Predicted MQL:	1.586143		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00076	-.001	.000	-.00002	.000	1
CalStd7=50	50.000	63.207	13.2	26.4	.00081	.000	1
CalStd5=10	10.000	11.601	1.60	16.0	.00013	.000	1
CalStd8=100	100.00	101.62	1.62	1.62	.00131	.000	1
CalStd4=5	5.0000	5.1113	.111	2.23	.00005	.000	1
CalStd9=100	1000.0	1011.6	11.6	1.16	.01327	.000	1
CalStd3=1	1.0000	1.2909	.291	29.1	-.00000	.000	1
CalStd10=10	10000.	9971.5	-28.5	-.285	.13117	.000	1

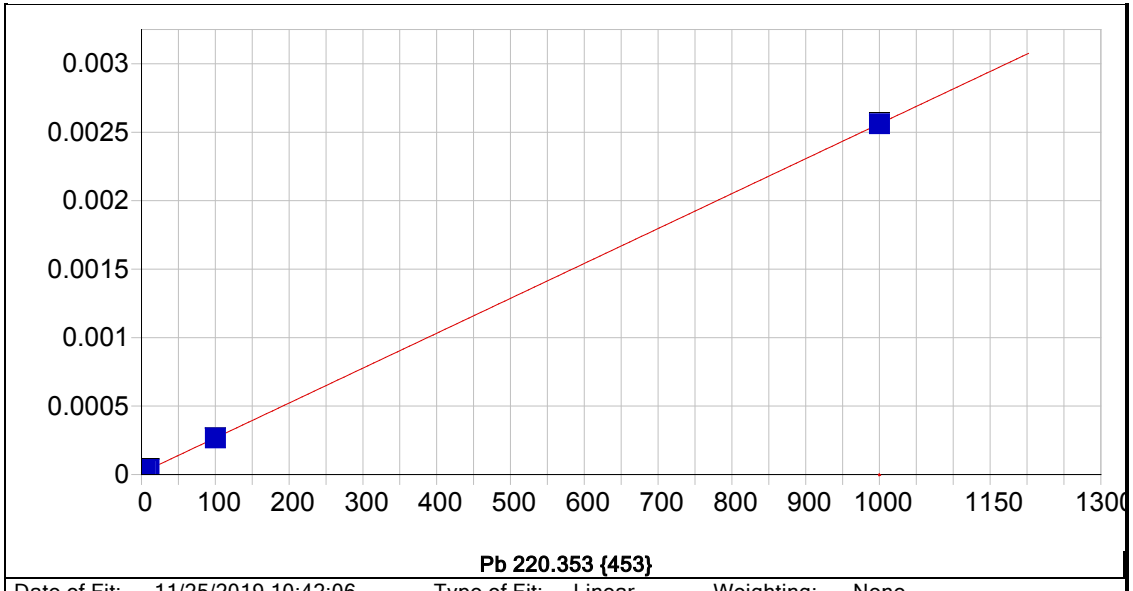


Pb 216.999 {455}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Full Fit	Weighting:	1/Var

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.980000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	3.794839		
Predicted MQL:	12.649464		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	2.2794	2.28	.000	.00001	.000	1
CalStd9=100	1000.0	997.64	-2.36	-.236	.00117	.000	1
CalStd10=10	10000.	10051.	51.2	.512	.01122	.000	1
CalStd8=100	100.00	100.45	.451	.451	.00013	.000	1
CalStd5=10	10.000	12.781	2.78	27.8	.00002	.000	1
CalStd12=10	100000.	101990.	1990.	1.99	.10862	.001	1

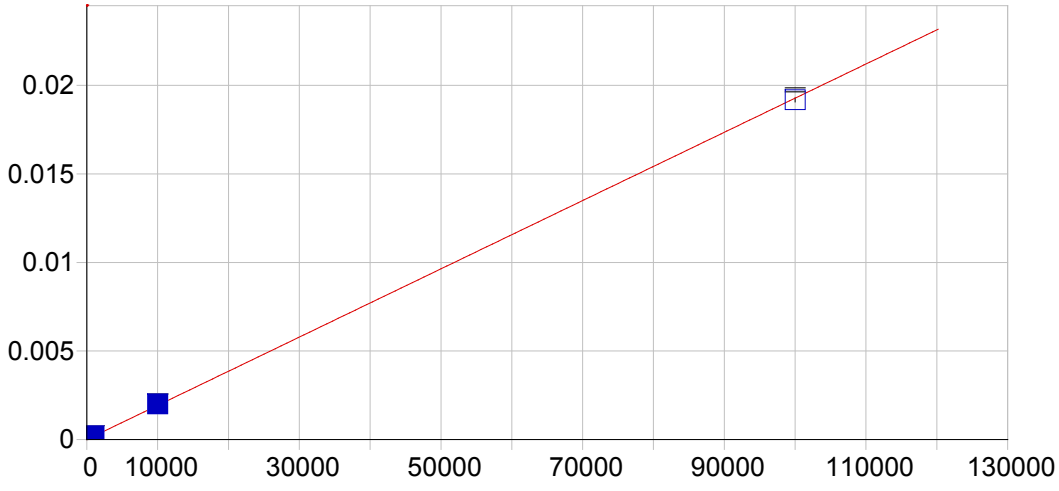


Pb 220.353 {453}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	2.497402		
Predicted MQL:	8.324672		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.79914	.799	.000	.00001	.000	1
CalStd5=10	10.000	10.397	.397	3.97	.00004	.000	1
CalStd8=100	100.00	99.662	-.338	-.338	.00027	.000	1
CalStd4=5	5.0000	4.1077	-.892	-17.8	.00002	.000	1
CalStd9=100	1000.0	1000.0	.034	.003	.00256	.000	1

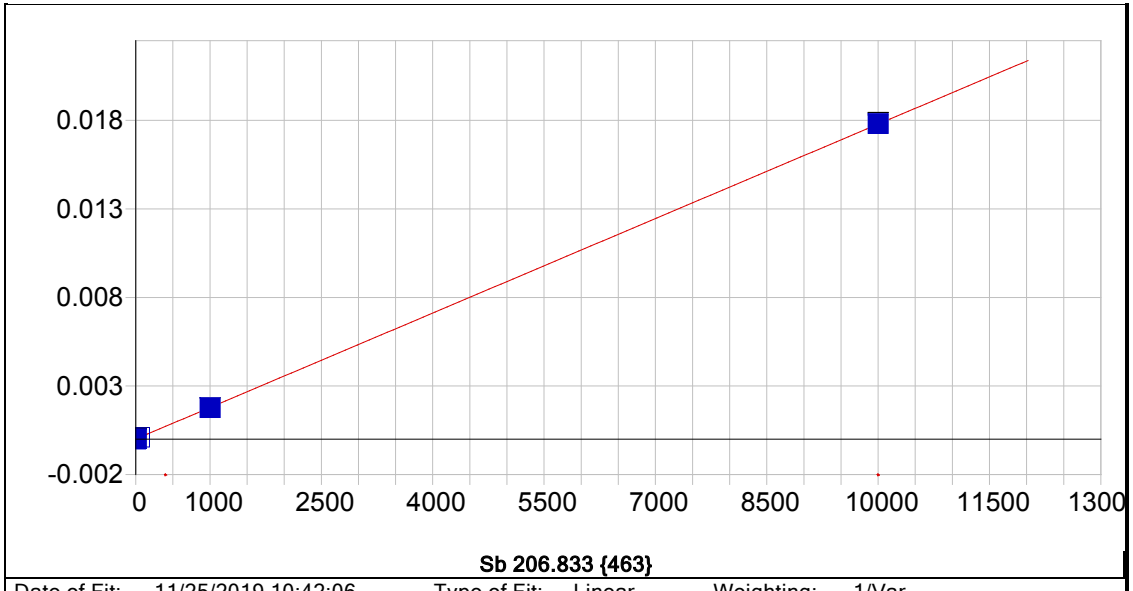


Pb 220.353 {153}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	4.610251		
Predicted MQL:	15.367502		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.02066	-.021	.000	.00000	.000	1
CalStd9=100	1000.0	1085.9	85.9	8.59	.00021	.000	1
CalStd10=10	10000.	10407.	407.	4.07	.00201	.000	1
CalStd8=100	100.00	108.50	8.50	8.50	.00002	.000	1
CalStd12=10	100000.	99499.	-501.	-.501	.01918	.000	1

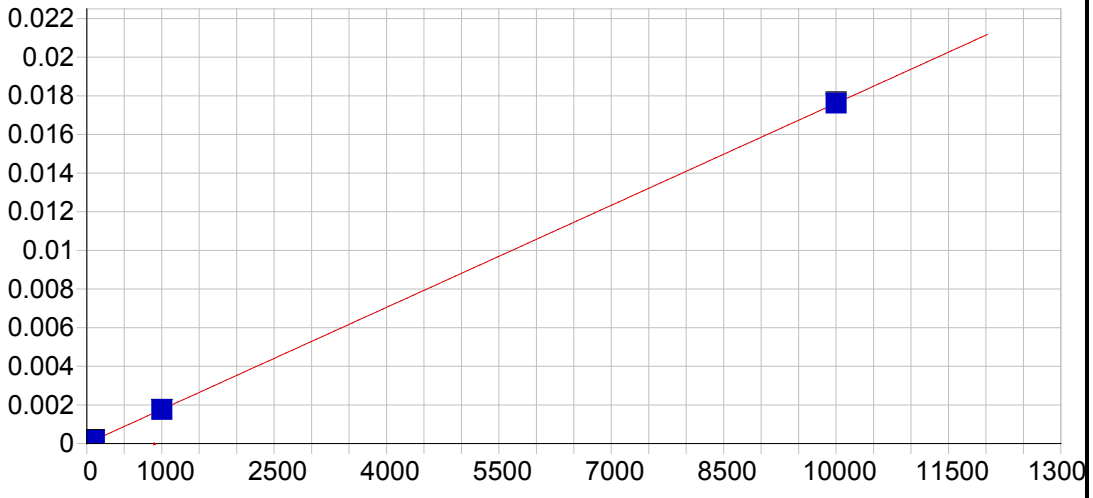


Sb 206.833 {463}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.000006	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999865	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	2.230584		
Predicted MQL:	7.435279		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-5.0395	-5.04	.000	-.00000	.000	1
CalStd9=100	1000.0	992.44	-7.56	-.756	.00177	.000	1
CalStd5=10	10.000	7.7778	-2.22	-22.2	.00002	.000	1
CalStd7=50	50.000	57.050	7.05	14.1	.00011	.000	1
CalStd10=10	10000.	10012.	11.9	.119	.01781	.000	1

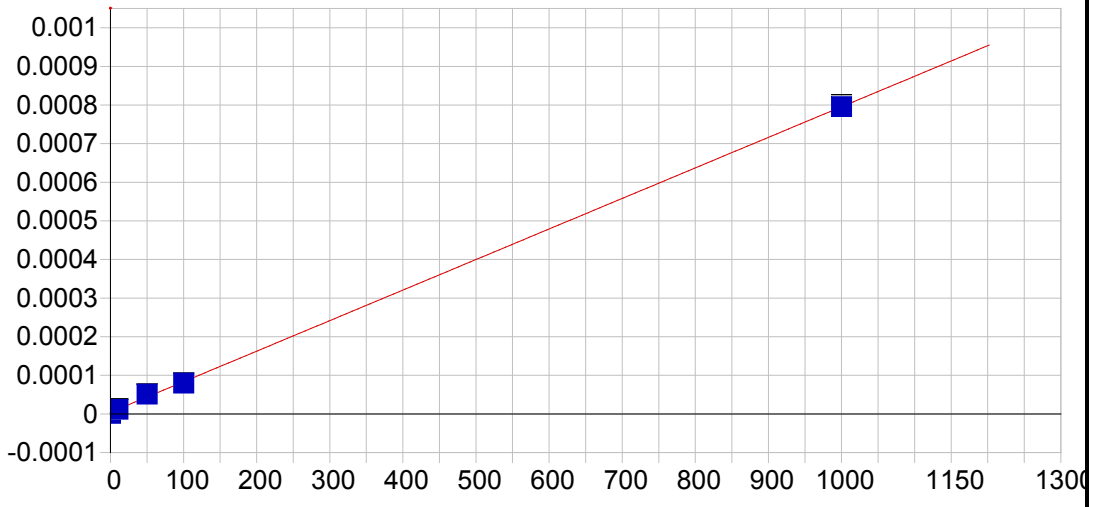


Sb 217.581 {455}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999971	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.500180		
Predicted MQL:	8.333935		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00093	-.001	.000	.00000	.000	1
CalStd9=100	1000.0	996.62	-3.38	-.338	.00176	.000	1
CalStd6=20	20.000	22.902	2.90	14.5	.00004	.000	1
CalStd5=10	10.000	11.315	1.32	13.2	.00002	.000	1
CalStd8=100	100.00	99.733	-.267	-.267	.00018	.000	1
CalStd4=5	5.0000	4.5771	-.423	-8.46	.00001	.000	1
CalStd10=10	10000.	9999.8	-.151	-.002	.01762	.000	1

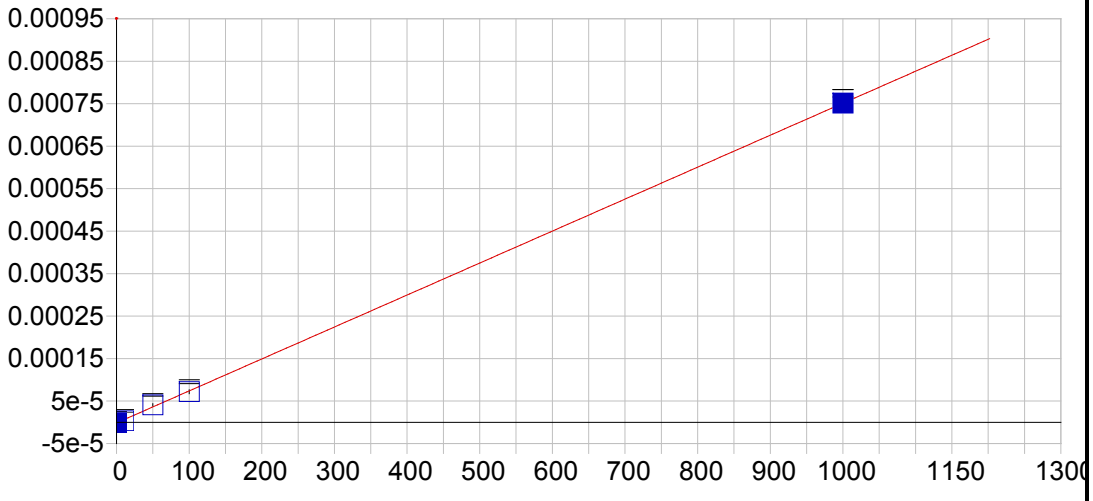


Se 196.090 {472}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	4.032290		
Predicted MQL:	13.440965		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-3.7620	-3.76	.000	.00000	.000	1
CalStd7=50	50.000	59.255	9.25	18.5	.00005	.000	1
CalStd9=100	1000.0	1000.0	.042	.004	.00080	.000	1
CalStd5=10	10.000	9.4549	-.545	-5.45	.00001	.000	1
CalStd8=100	100.00	95.011	-4.99	-4.99	.00008	.000	1

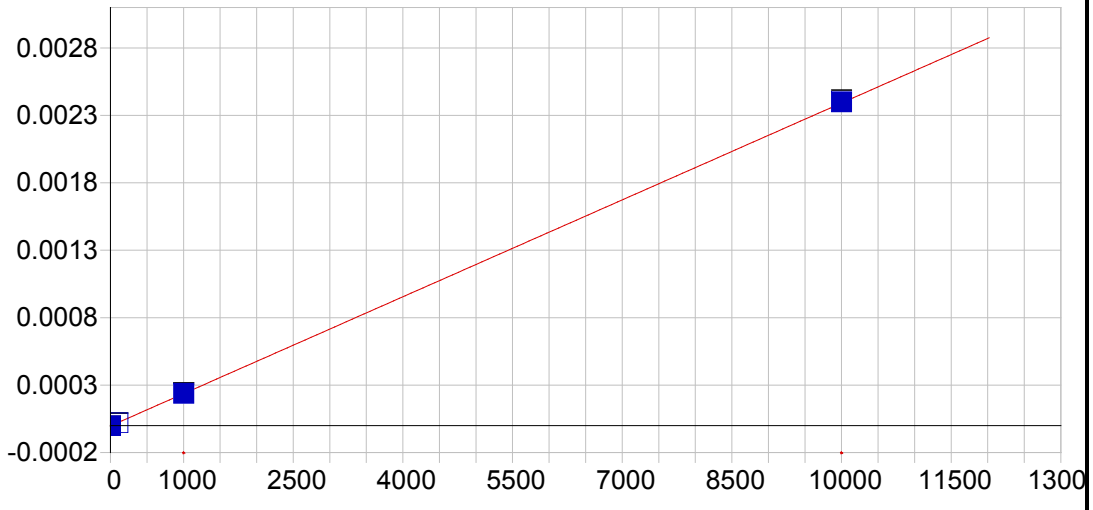


Se 203.985 {465}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999091	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	6.341972		
Predicted MQL:	21.139907		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00257	.003	.000	-.00000	.000	1
CalStd7=50	50.000	56.239	6.24	12.5	.00004	.000	1
CalStd9=100	1000.0	999.85	-.154	-.015	.00075	.000	1
CalStd5=10	10.000	6.4375	-3.56	-35.6	.00000	.000	1
CalStd8=100	100.00	97.478	-2.52	-2.52	.00007	.000	1

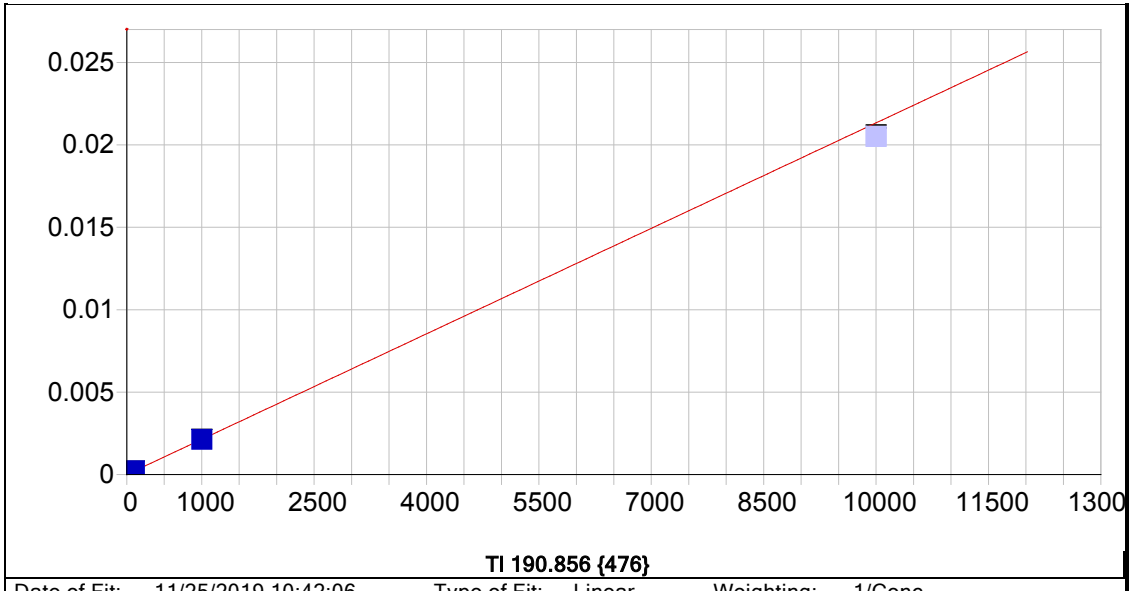


Se 206.279 {463}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	22.084522		
Predicted MQL:	73.615072		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00556	.006	.000	-.00000	.000	1
CalStd9=100	1000.0	1007.2	7.17	.717	.00024	.000	1
CalStd10=10	10000.	10032.	31.6	.316	.00240	.000	1
CalStd8=100	100.00	93.765	-6.23	-6.23	.00002	.000	1

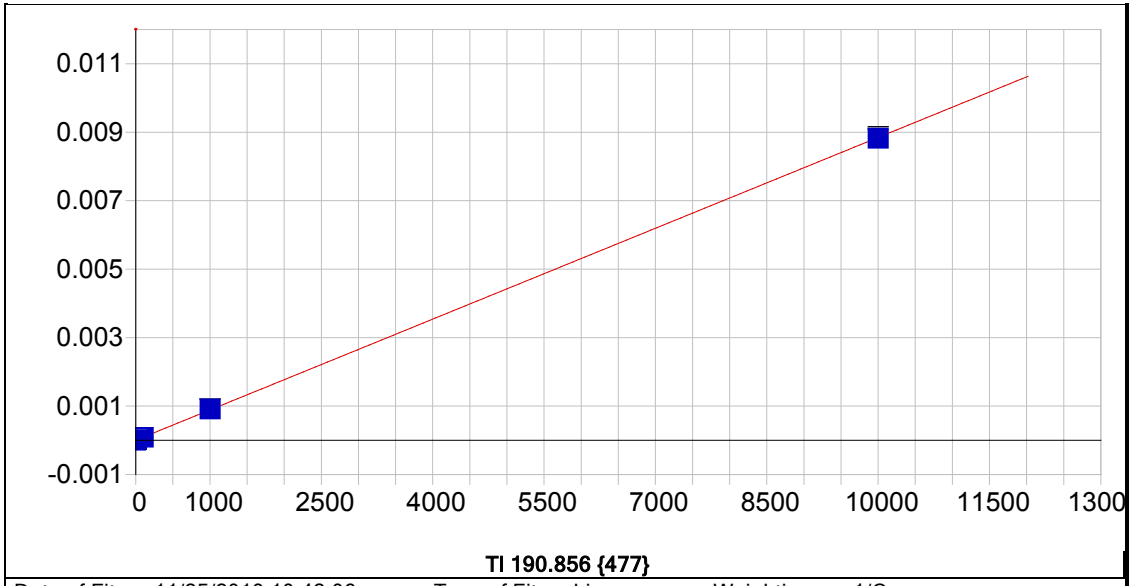


Tl 190.856 {476}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999887	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	1.871892		
Predicted MQL:	6.239641		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00161	-.002	.000	.00000	.000	1
CalStd9=100	1000.0	997.18	-2.82	-.282	.00213	.000	1
CalStd8=100	100.00	101.32	1.32	1.32	.00022	.000	1
CalStd5=10	10.000	11.502	1.50	15.0	.00003	.000	1
CalStd10=10	10000.	9607.2	-393.	-3.93	.02052	.000	0

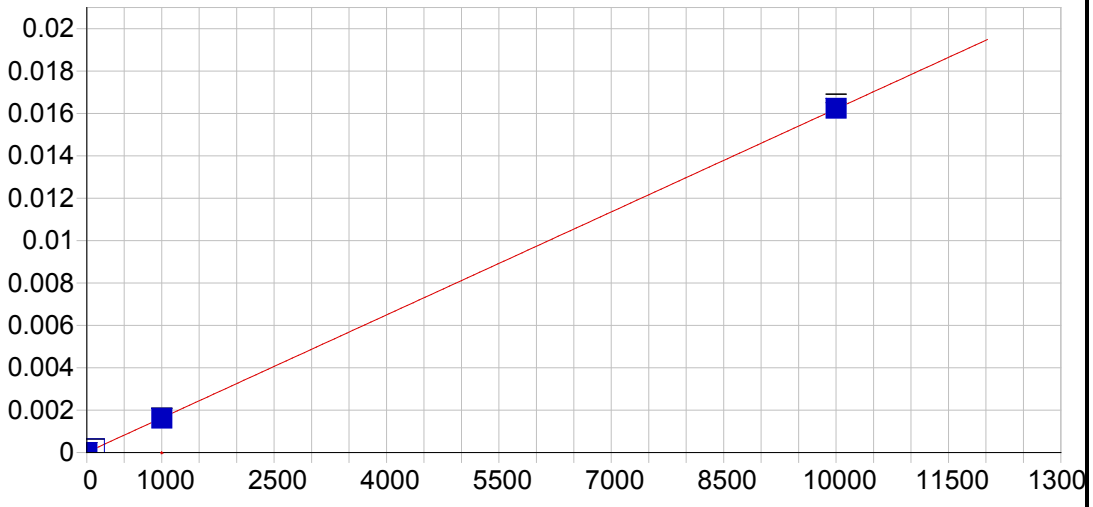


Tl 190.856 {477}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3.536069		
Predicted MQL:	11.786896		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00164	-.002	.000	.00000	.000	1
CalStd9=100	1000.0	1027.6	27.6	2.76	.00091	.000	1
CalStd8=100	100.00	99.898	-.102	-.102	.00009	.000	1
CalStd5=10	10.000	11.399	1.40	14.0	.00001	.000	1
CalStd10=10	10000.	9971.1	-28.9	-.289	.00883	.000	1

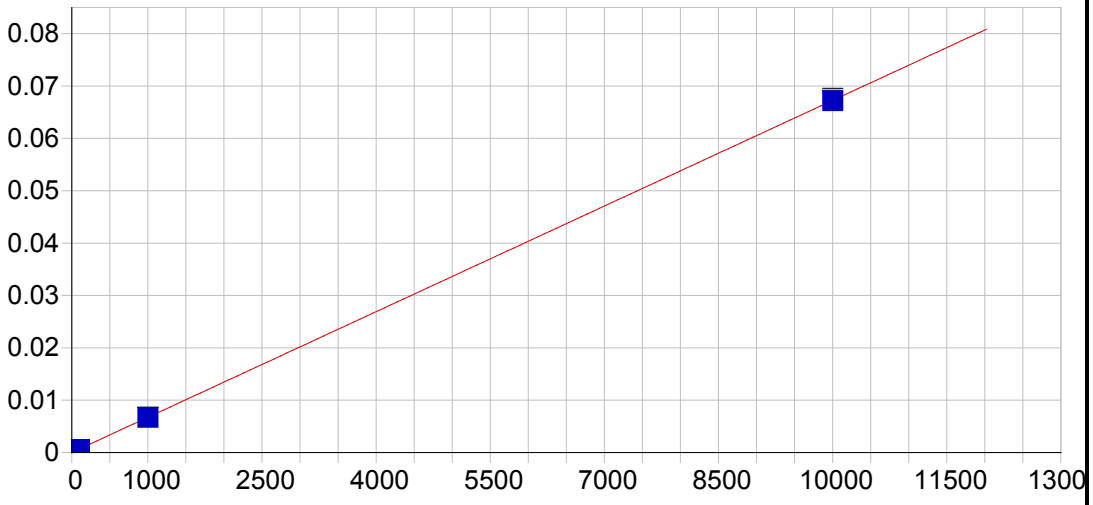


V 290.882 {116}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000012	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	2.925235		
Predicted MQL:	9.750784		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00248	.002	.000	.00001	.000	1
CalStd9=100	1000.0	988.09	-11.9	-1.19	.00161	.000	1
CalStd10=10	10000.	10013.	13.3	.133	.01624	.000	1
CalStd8=100	100.00	98.582	-1.42	-1.42	.00017	.000	1

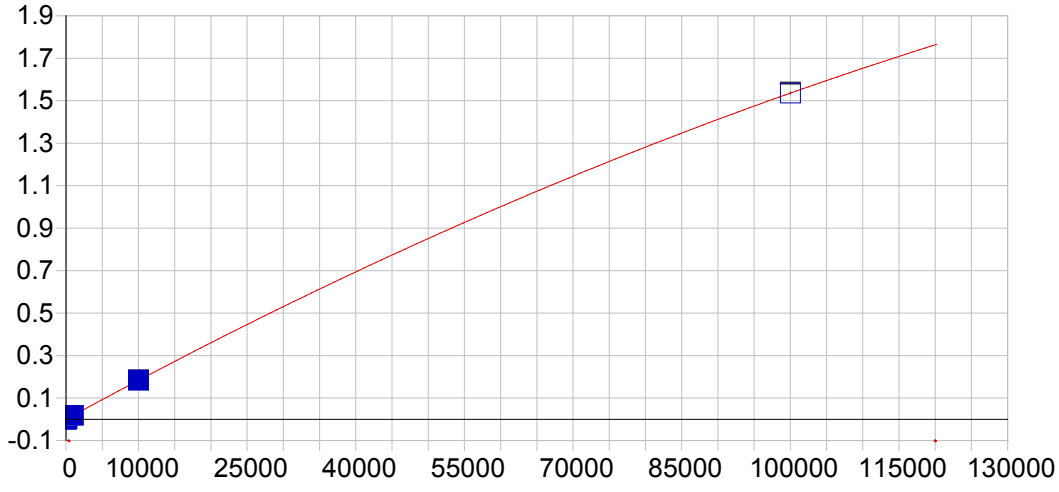


V 292.402 {115}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999813	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.516099		
Predicted MQL:	1.720330		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00609	-.006	.000	.00000	.000	1
CalStd7=50	50.000	61.721	11.7	23.4	.00042	.000	1
CalStd9=100	1000.0	995.87	-4.13	-.413	.00670	.000	1
CalStd6=20	20.000	24.815	4.82	24.1	.00017	.000	1
CalStd5=10	10.000	11.549	1.55	15.5	.00008	.000	1
CalStd8=100	100.00	98.388	-1.61	-1.61	.00066	.000	1
CalStd10=10	10000.	9987.7	-12.3	-.123	.06740	.000	1

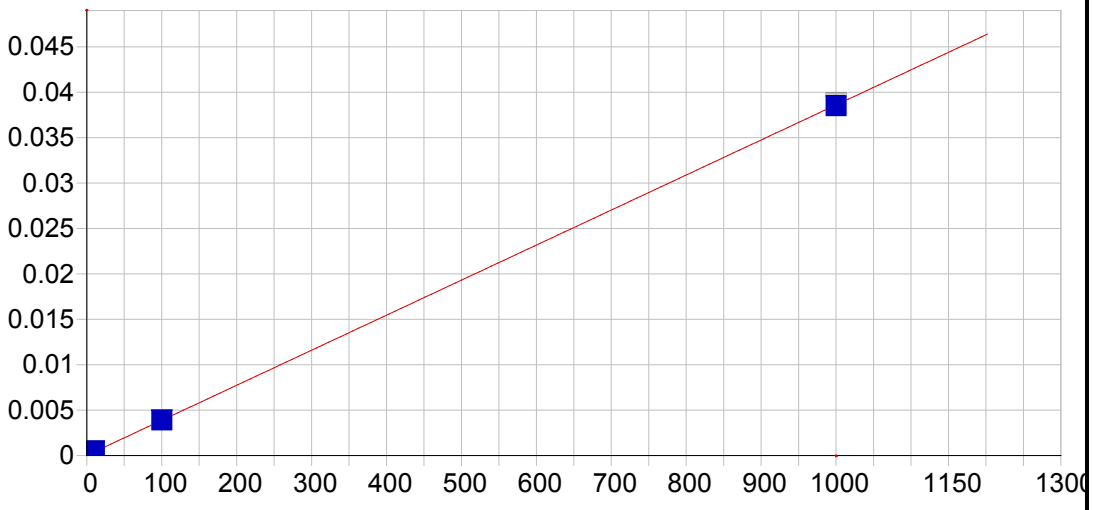


Zn 206.200 {463}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000019	Y-int:	0.000000
A2 (Curvature):	-0.000000		
n (Exponent):	1.000000		
Correlation:	0.999996	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	0.235037		
Predicted MQL:	0.783457		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
CalStd10=10	10000.	10008.	7.55	.075	.18357	.000	1
Blank	.00000	-.00221	-.002	.000	.00000	.000	1
CalStd9=100	1000.0	992.00	-8.00	-.800	.01849	.000	1
CalStd12=10	100000.	99999.	-1.00	-.001	1.5357	.004	1
CalStd5=10	10.000	12.389	2.39	23.9	.00023	.000	1
CalStd8=100	100.00	98.948	-1.05	-1.05	.00185	.000	1

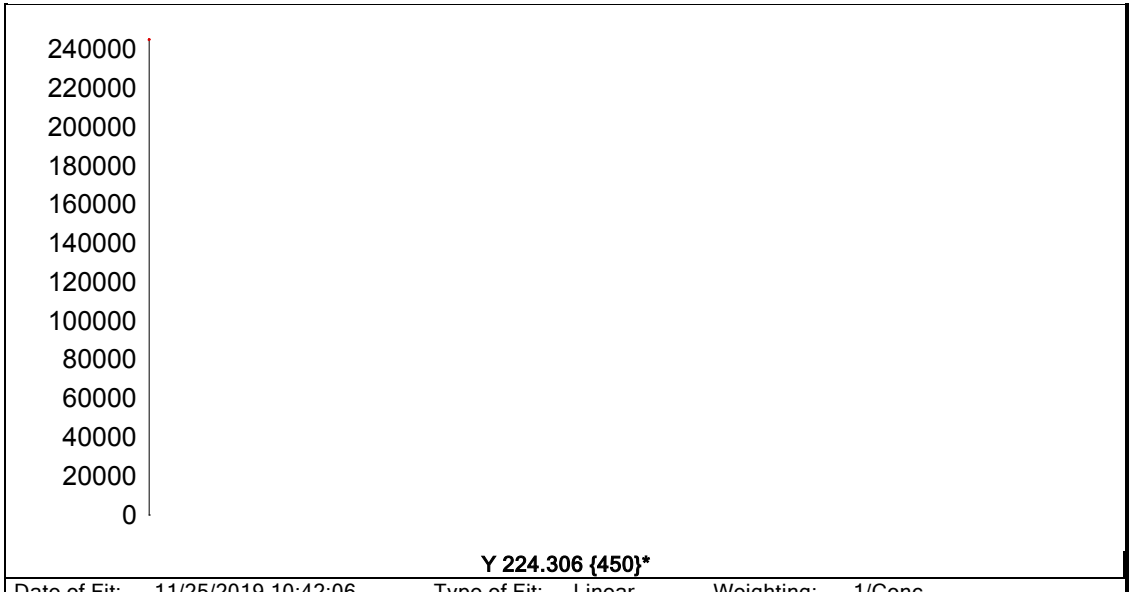


Zn 213.856 {457}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999721	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.121355		
Predicted MQL:	0.404517		

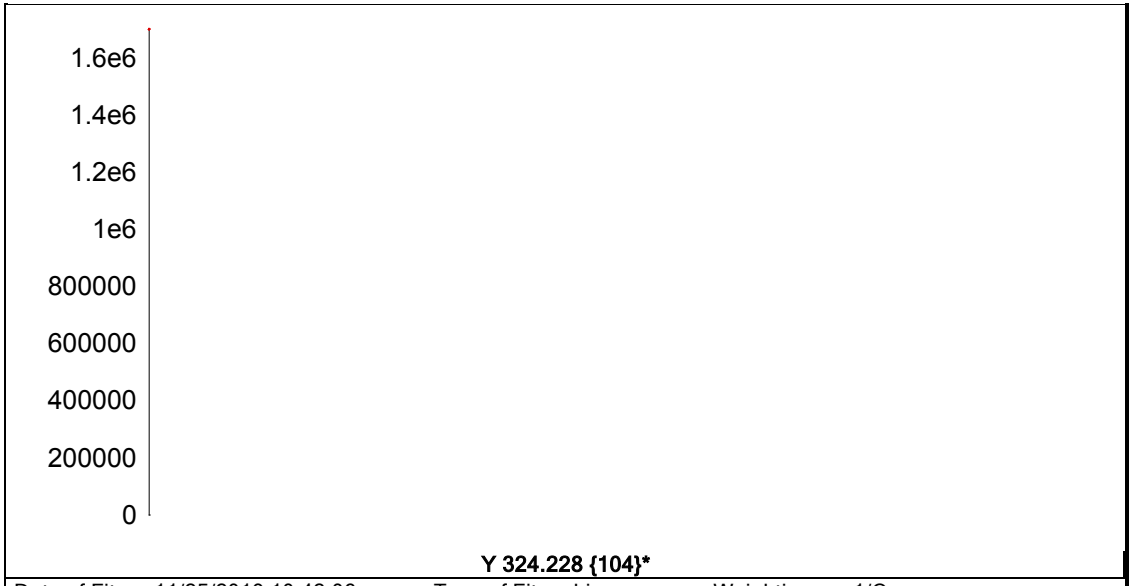
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00249	-.002	.000	.00002	.000	1
CalStd9=100	1000.0	997.24	-2.76	-.276	.03876	.000	1
CalStd5=10	10.000	12.487	2.49	24.9	.00050	.000	1
CalStd8=100	100.00	100.28	.285	.285	.00391	.000	1



Y 224.306 {450}*

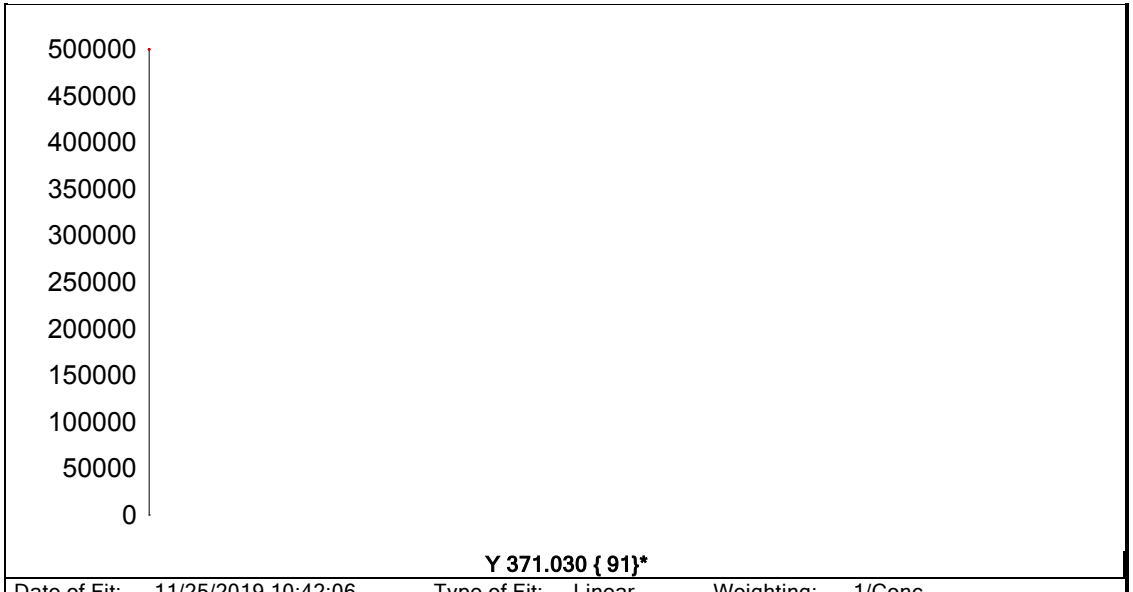
Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	227180.	4910.	1



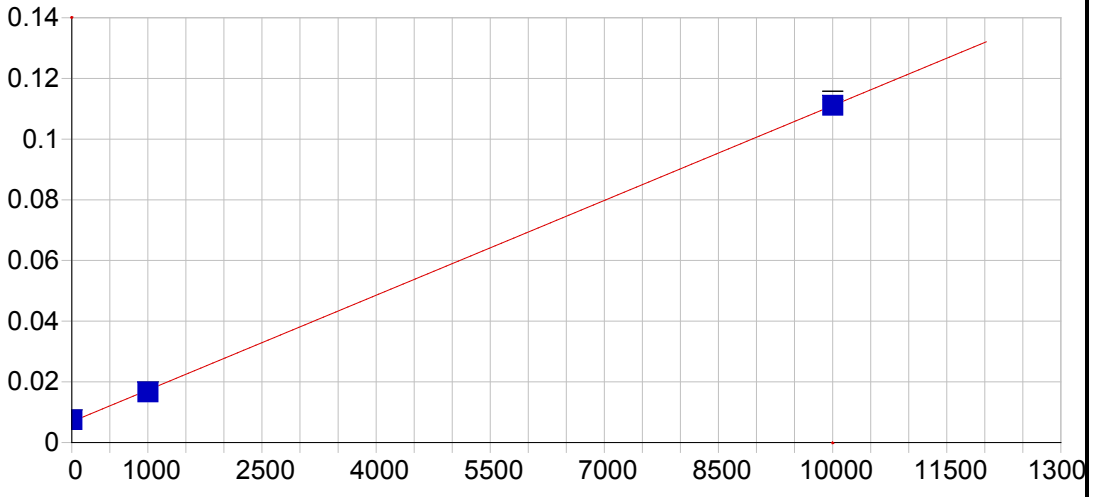
Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	1573200.	3230.	1



Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	414320.	2260.	1

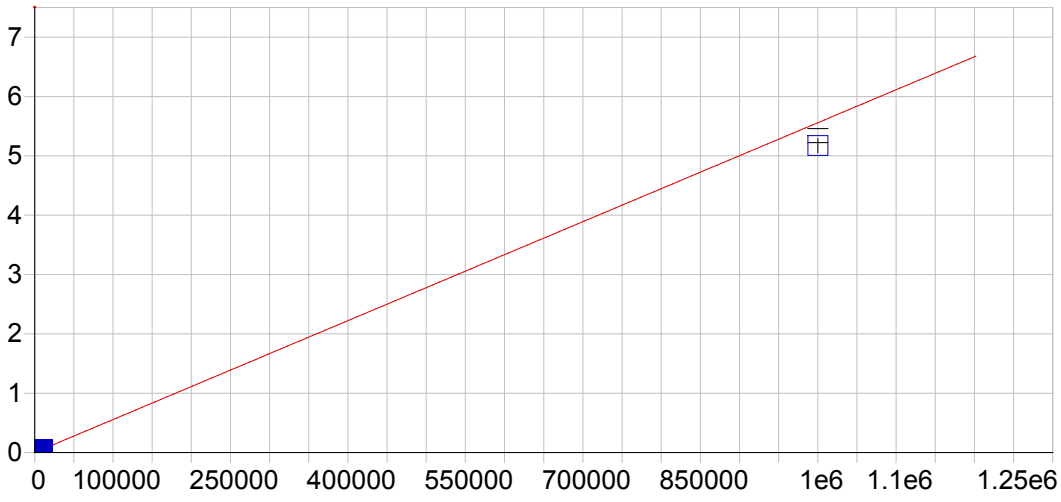


Na 588.995 { 57}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	None

A0 (Offset):	0.006899	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.000869		
Predicted MDL:	3.492393		
Predicted MQL:	11.641310		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	55.686	55.7	.000	.00748	.000	1
CalStd9=100	1000.0	938.13	-61.9	-6.19	.01667	.000	1
CalStd10=10	10000.	10006.	6.19	.062	.11112	.001	1

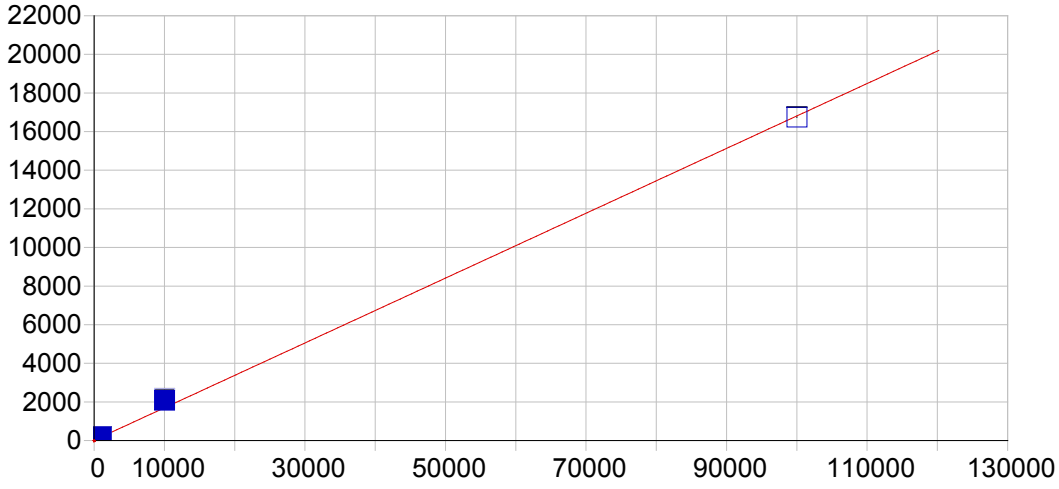


Na 589.592 { 57}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999665	Status:	OK.
Std Error of Est:	0.000096		
Predicted MDL:	5.031073		
Predicted MQL:	16.770244		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-1.1715	-1.17	.000	.00008	.000	1
CalStd9=100	1000.0	1007.6	7.62	.762	.00568	.000	1
CalStd10=10	10000.	10105.	105.	1.05	.05625	.001	1
CalibStd15=	1000000.	930340.	-69700.	-6.97	5.1711	.118	1

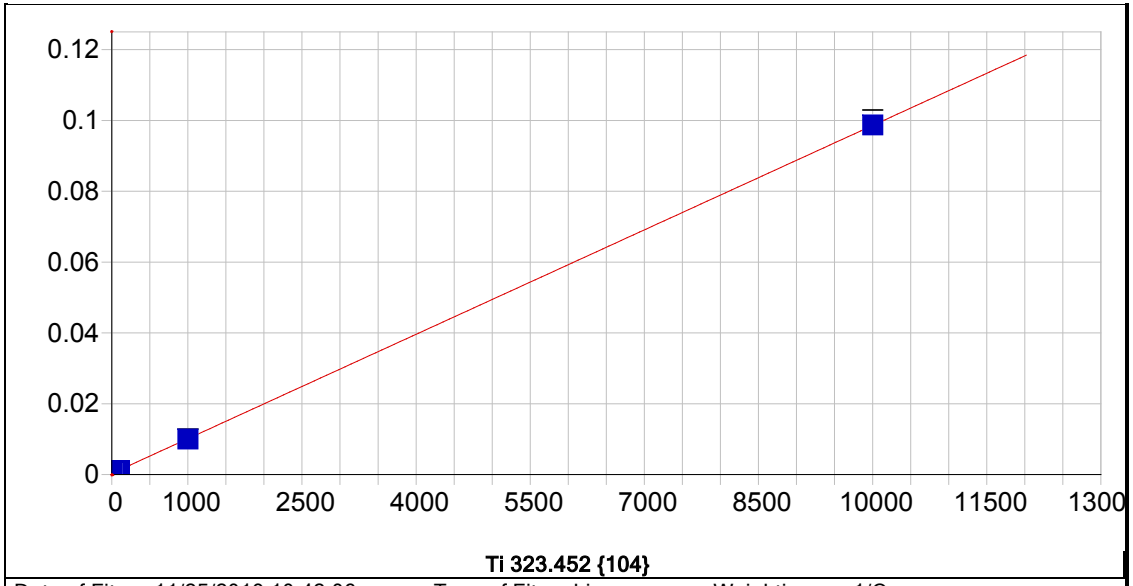


Si 251.611 {134}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	15.333740	Re-Slope:	1.000000
A1 (Gain):	0.167946	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999694	Status:	OK.
Std Error of Est:	18.415269		
Predicted MDL:	7.849349		
Predicted MQL:	26.164497		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-77.279	-77.3	.000	2.3551	.706	1
CalStd9=100	1000.0	1021.1	21.1	2.11	200.07	.385	1
CalStd10=10	10000.	12306.	2310.	23.1	2166.2	12.1	1
CalibStd15=	100000.	99625.	-375.	-.375	16747.	10.8	1

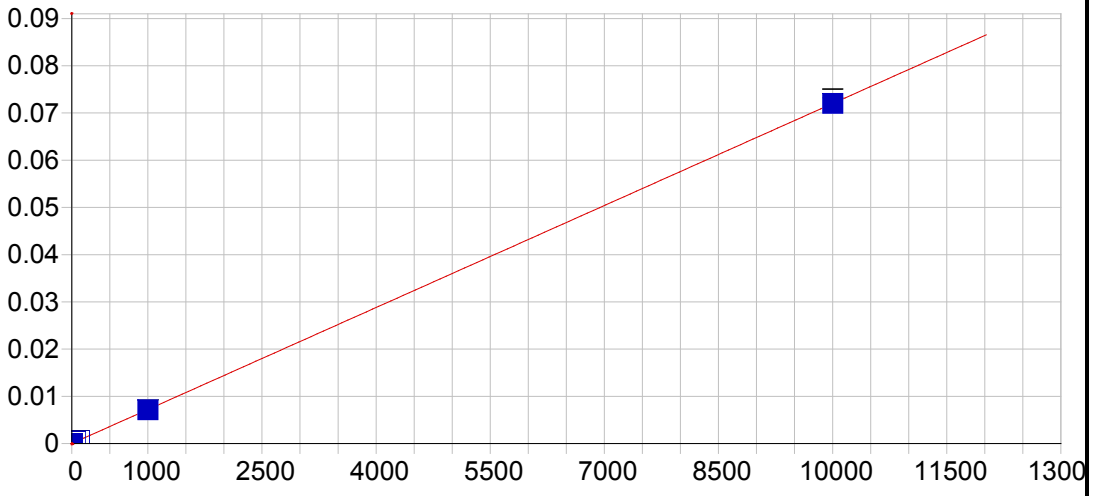


Ti 323.452 {104}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000296	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999869	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.815692		
Predicted MQL:	2.718972		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00023	.000	.000	.00030	.000	1
CalStd5=10	10.000	10.685	.685	6.85	.00040	.000	1
CalStd8=100	100.00	95.271	-4.73	-4.73	.00123	.000	1
CalStd9=100	1000.0	985.63	-14.4	-1.44	.00998	.000	1
CalStd10=10	10000.	10009.	9.43	.094	.09876	.001	1
CalStd7=50	50.000	60.273	10.3	20.5	.00089	.000	1
CalStd4=5	5.0000	3.7062	-1.29	-25.9	.00033	.000	1

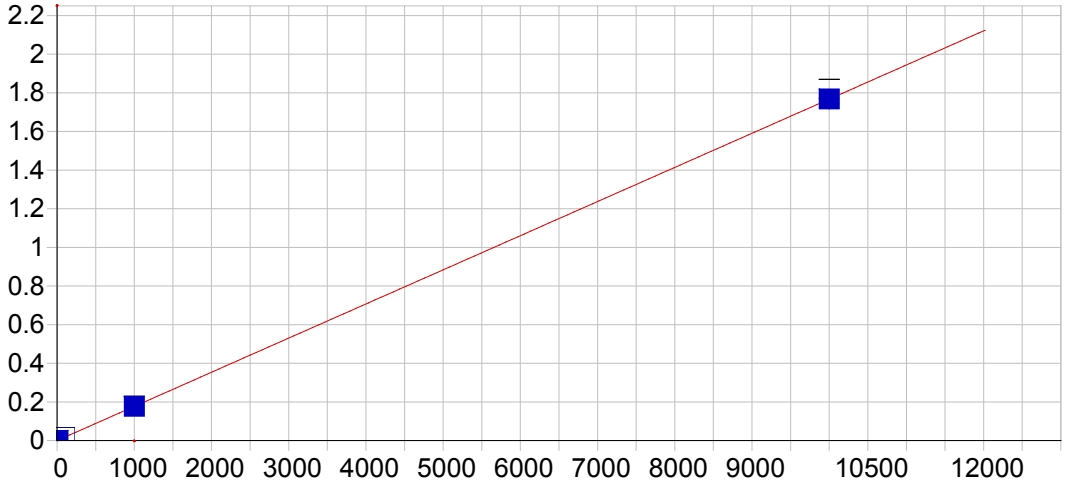


Ti 334.941 {101}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	0.762274		
Predicted MQL:	2.540912		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00122	-.001	.000	.00001	.000	1
CalStd5=10	10.000	10.650	.650	6.50	.00008	.000	1
CalStd8=100	100.00	97.828	-2.17	-2.17	.00071	.000	1
CalStd9=100	1000.0	989.09	-10.9	-1.09	.00713	.000	1
CalStd10=10	10000.	10001.	1.28	.013	.07202	.001	1
CalStd7=50	50.000	61.219	11.2	22.4	.00045	.000	1
CalStd4=5	5.0000	4.9399	-.060	-1.20	.00004	.000	1

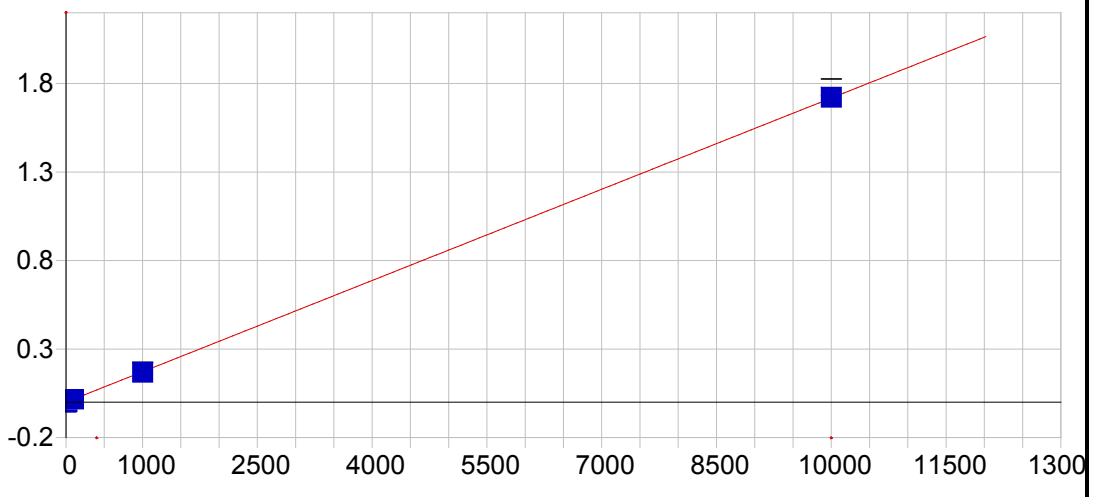


Sr 407.771 { 83}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000050	Re-Slope:	1.000000
A1 (Gain):	0.000177	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.069287		
Predicted MQL:	0.230957		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00054	-.001	.000	.00005	.000	1
CalStd3=1	1.0000	1.3756	.376	37.6	.00029	.000	1
CalStd4=5	5.0000	5.1928	.193	3.86	.00097	.000	1
CalStd5=10	10.000	11.347	1.35	13.5	.00206	.000	1
CalStd8=100	100.00	99.016	-.984	-.984	.01755	.000	1
CalStd9=100	1000.0	997.42	-2.58	-.258	.17632	.001	1
CalStd10=10	10000.	10002.	1.65	.016	1.7676	.050	1

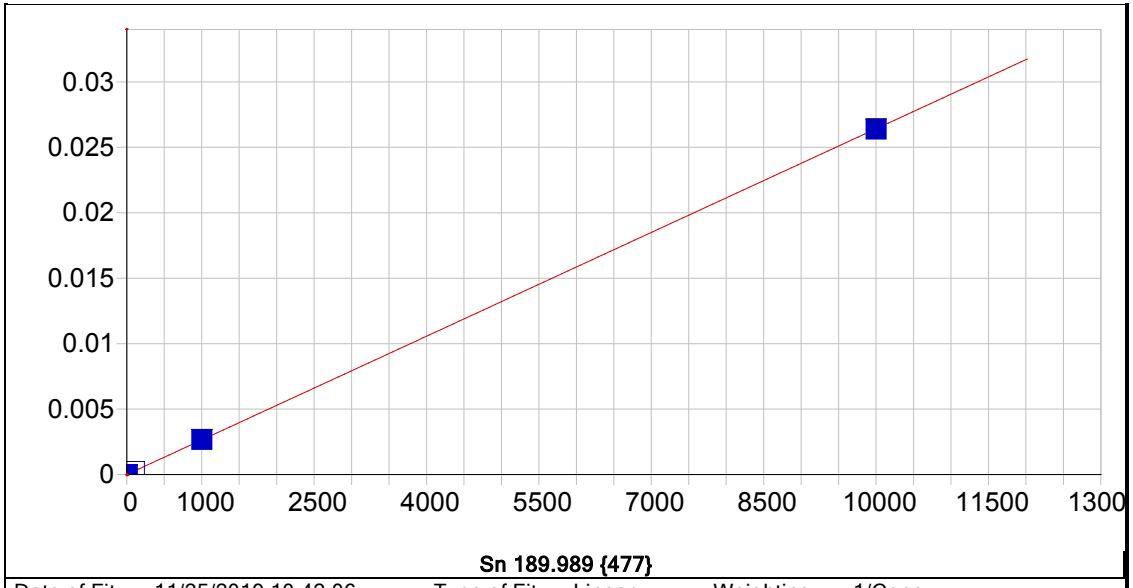


Sr 421.552 { 80}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000034	Re-Slope:	1.000000
A1 (Gain):	0.000172	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.070953		
Predicted MQL:	0.236510		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00046	-.000	.000	-.00003	.000	1
CalStd3=1	1.0000	1.3602	.360	36.0	.00020	.000	1
CalStd4=5	5.0000	5.1273	.127	2.55	.00085	.000	1
CalStd5=10	10.000	11.179	1.18	11.8	.00189	.000	1
CalStd8=100	100.00	97.094	-2.91	-2.91	.01665	.000	1
CalStd9=100	1000.0	978.65	-21.4	-2.14	.16812	.001	1
CalStd10=10	10000.	10023.	22.6	.226	1.7221	.047	1

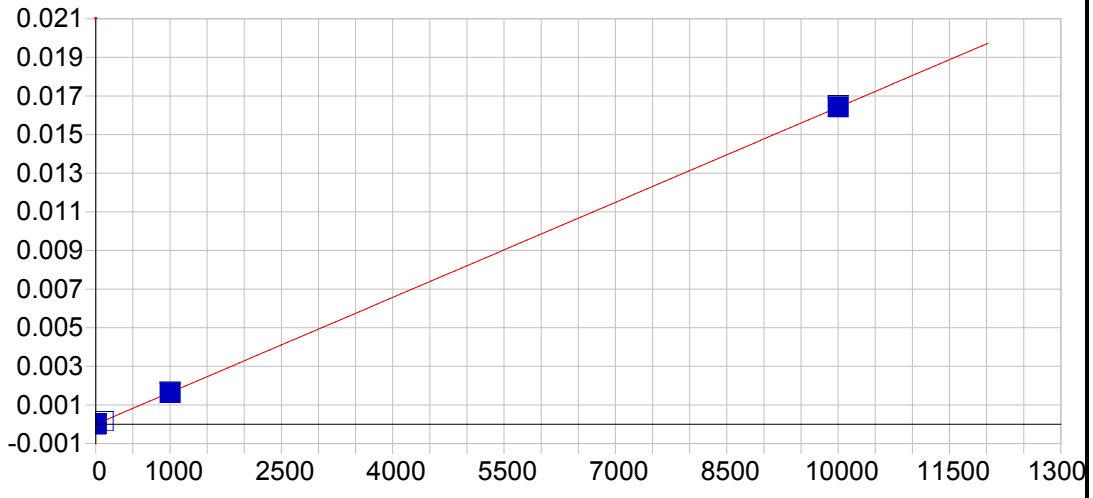


Sn 189.989 {477}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	1.256155		
Predicted MQL:	4.187182		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00474	-.005	.000	.00000	.000	1
CalStd10=10	10000.	9984.0	-16.0	-.160	.02638	.000	1
CalStd9=100	1000.0	1009.9	9.91	.991	.00267	.000	1
CalStd8=100	100.00	101.55	1.55	1.55	.00027	.000	1
CalStd5=10	10.000	14.502	4.50	45.0	.00004	.000	1

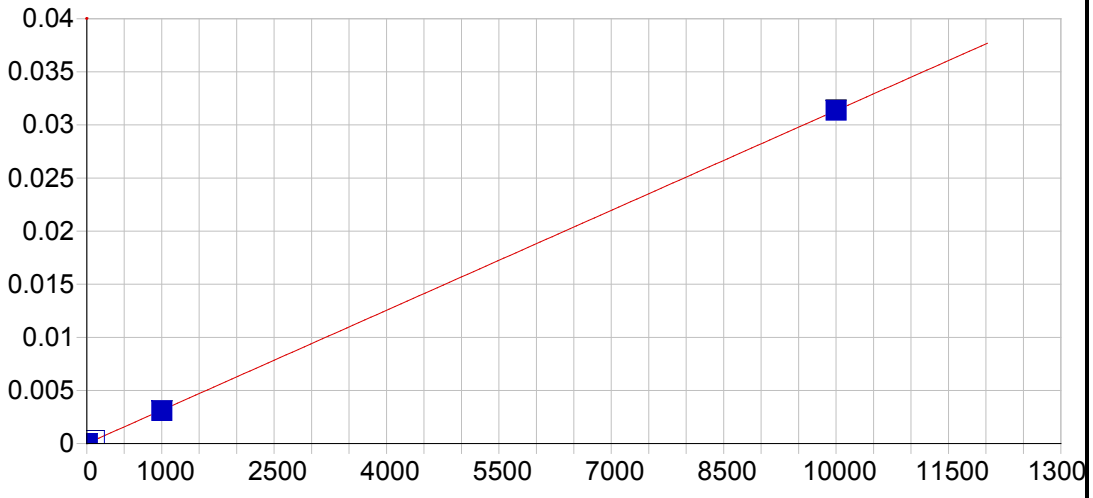


B 249.678 {135}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	1.330032		
Predicted MQL:	4.433439		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00096	-.001	.000	.00000	.000	1
CalStd8=100	100.00	97.221	-2.78	-2.78	.00016	.000	1
CalStd5=10	10.000	11.277	1.28	12.8	.00002	.000	1
CalStd9=100	1000.0	994.99	-5.01	-.501	.00163	.000	1
CalStd10=10	10000.	10007.	6.51	.065	.01643	.000	1

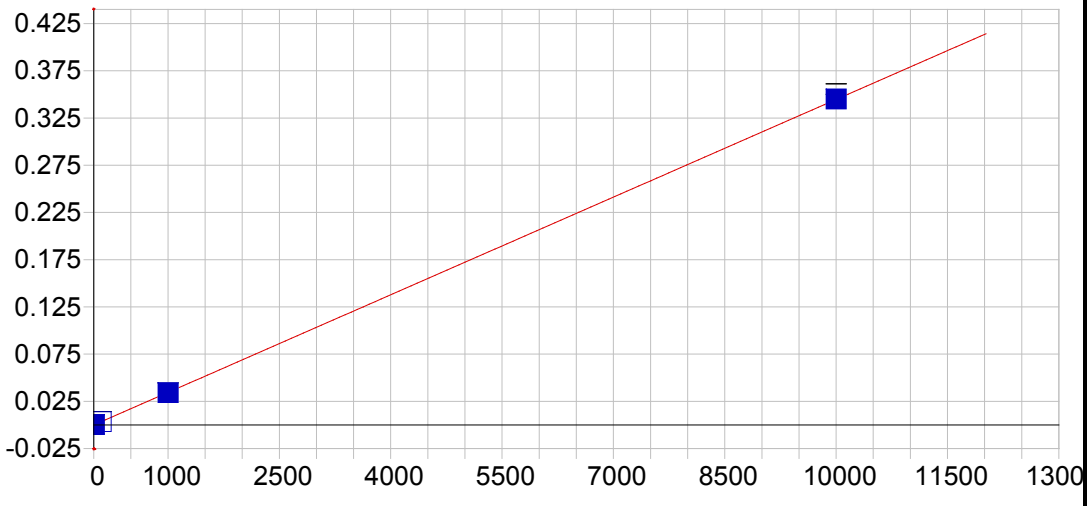


B 249.773 {135}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Var

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.000003	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999997	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.562865		
Predicted MQL:	1.876216		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.66815	-.668	.000	.00000	.000	1
CalStd8=100	100.00	97.089	-2.91	-2.91	.00031	.000	1
CalStd5=10	10.000	10.733	.733	7.33	.00004	.000	1
CalStd9=100	1000.0	983.02	-17.0	-1.70	.00309	.000	1
CalStd10=10	10000.	10002.	2.04	.020	.03138	.000	1

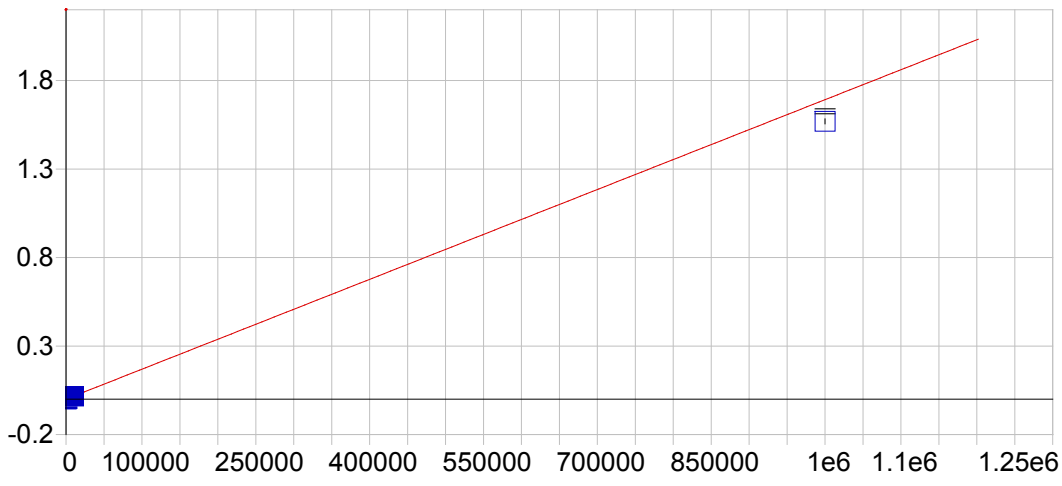


Li 670.784 { 50}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000060	Re-Slope:	1.000000
A1 (Gain):	0.000034	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.934681		
Predicted MQL:	3.115604		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00190	-.002	.000	-.00006	.000	1
CalStd5=10	10.000	12.037	2.04	20.4	.00035	.000	1
CalStd8=100	100.00	99.614	-.386	-.386	.00337	.000	1
CalStd9=100	1000.0	989.38	-10.6	-1.06	.03404	.000	1
CalStd10=10	10000.	10009.	8.97	.090	.34496	.006	1

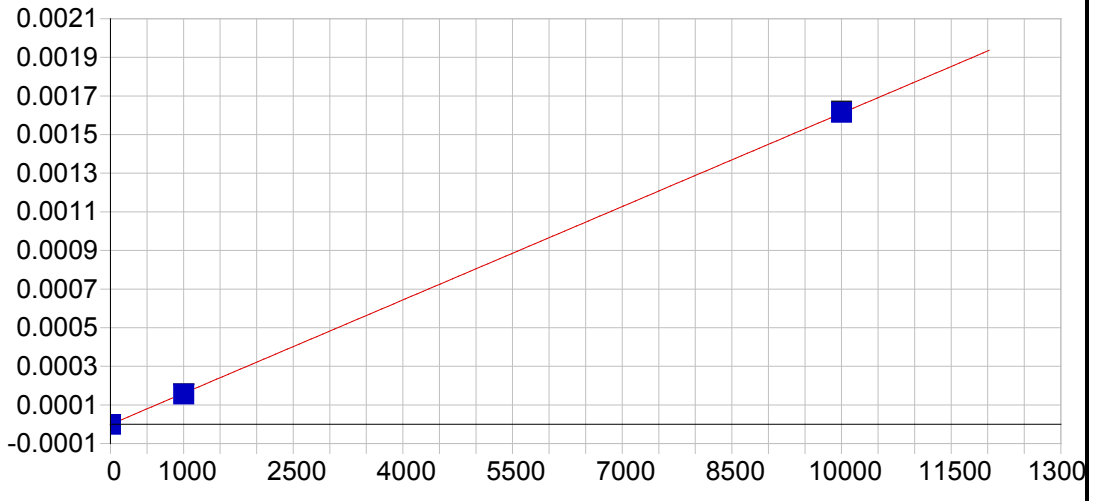


K 766.490 { 44}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	-0.000029	Re-Slope:	1.000000
A1 (Gain):	0.000002	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000002		
Predicted MDL:	18.885878		
Predicted MQL:	62.952927		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.01858	.019	.000	-.00003	.000	1
CalStd9=100	1000.0	979.26	-20.7	-2.07	.00163	.000	1
CalStd10=10	10000.	10014.	13.6	.136	.01692	.000	1
CalibStd15=	1000000.	927420.	-72600.	-7.26	1.5691	.014	1

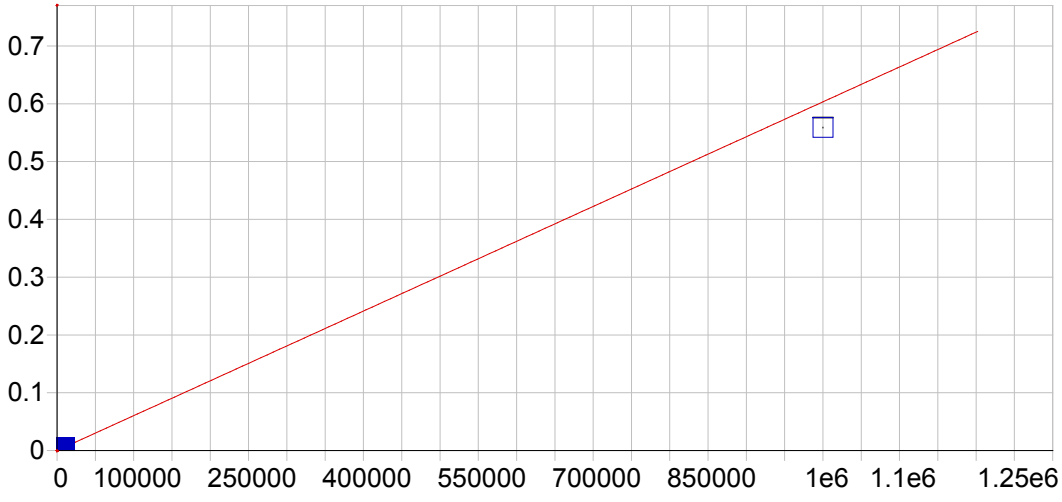


P 213.618 {457}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000001	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	3.928442		
Predicted MQL:	13.094805		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02225	.022	.000	-.00000	.000	1
CalStd10=10	10000.	10025.	24.7	.247	.00161	.000	1
CalStd9=100	1000.0	975.27	-24.7	-2.47	.00016	.000	1

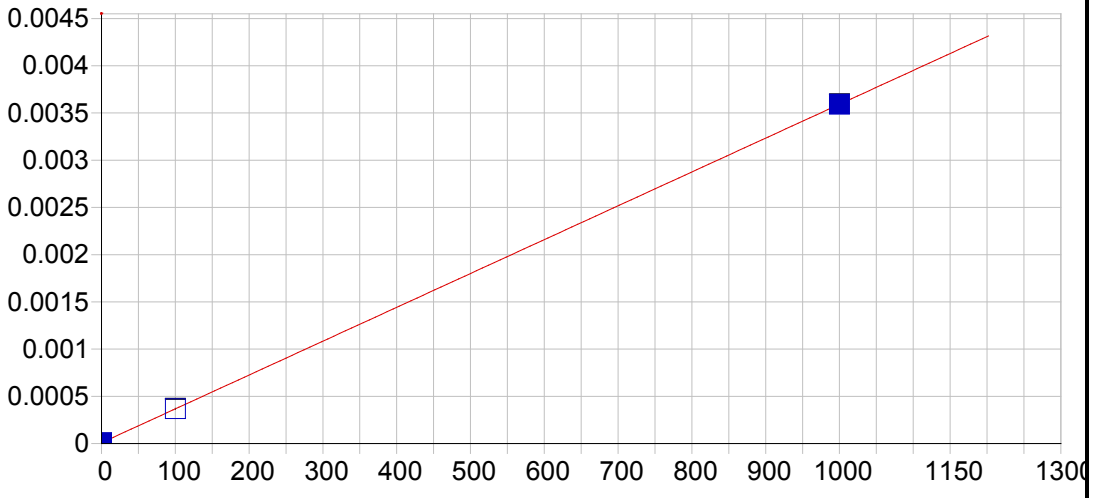


S 182.034 {485}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Curvilinear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000001		
Predicted MDL:	4.594036		
Predicted MQL:	15.313454		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.02646	.026	.000	.00000	.000	1
CalStd9=100	1000.0	970.50	-29.5	-2.95	.00059	.000	1
CalStd10=10	10000.	10022.	22.3	.223	.00606	.000	1
CalibStd15=	1000000.	926340.	-73700.	-7.37	.55888	.001	1

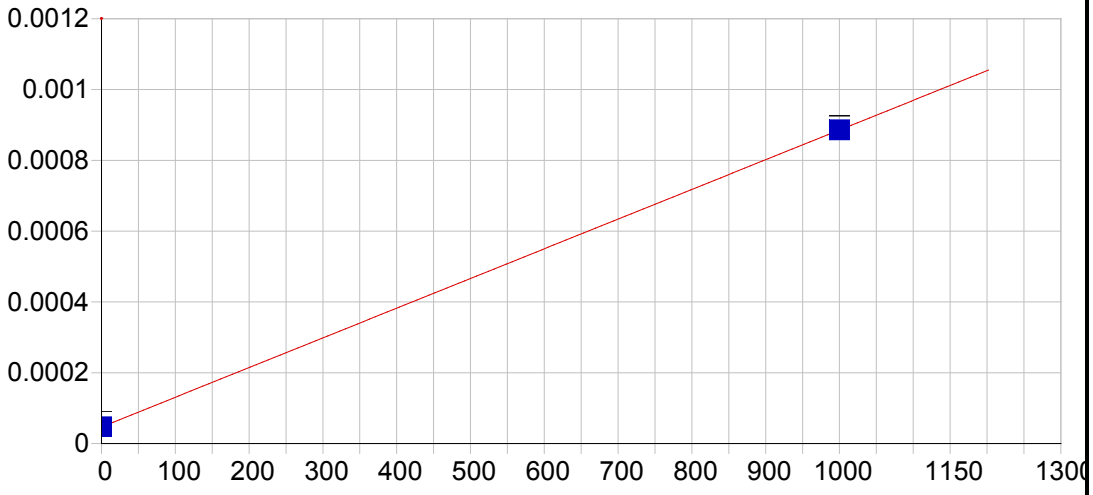


Hg 184.950 {482}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000009	Re-Slope:	1.000000
A1 (Gain):	0.000004	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.870348		
Predicted MQL:	2.901160		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	-.00014	-.000	.000	.00001	.000	1
CalStd8=100	100.00	100.16	.161	.161	.00037	.000	1
CalStd9=100	1000.0	999.84	-.161	-.016	.00359	.000	1



Ce 404.076 { 83}

Date of Fit:	11/25/2019 10:42:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000047	Re-Slope:	1.000000
A1 (Gain):	0.000001	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	14.729147		
Predicted MQL:	49.097156		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00005	.000	1
CalStd9=100	1000.0	1000.0	.000	.000	.00089	.000	1

Sample Name: Blank Acquired: 11/20/2019 09:34:57 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	Al3961	As1937	As1972	Ba2335	Ba4934	Be3130	Be2348	Ca3158	Ca3968
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-10.7**	**.000**	**.000**	**-.000**	**.904**	**-.000**	**.000**	**.017**	**-.000**	**-.000**	**.000**	**.000**
Stddev	2.9	.000	.000	.000	.201	.000	.000	.000	.000	.000	.000	.000
%RSD	27.2	123.	13.2	21.4	22.3	819.	51.9	.742	5.01	50.5	4.42	6.52

Elem	Cd2265	Cd2288	Co2286	Co2388	Cr2055	Cr2677	Cu2230	Fe2343	Fe2395	Fe2599	Mg2025	Mg2802
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**-.000**	**.000**	**.000**	**37.3**	**.000**	**.000**	**-.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.7	.000	.000	.000	.000
%RSD	76.1	14.2	68.3	28.5	47.2	1600.	42.9	2.00	54.3	299.	53.6	1.56

Elem	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.000**	**-.000**	**-.000**	**-.000**	**.000**	**-.000**	**.000**	**.000**	**-.000**	**.000**	**.000**	**-.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	29.2	260.	166.	109.	33800.	14.3	48.9	36.8	144.	38.7	134.	166.

Elem	Tl1908	V_2908	V_2924	Zn2062	Zn2138	B_2497	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**-.000**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	87.6	19.9	50.0	477.	12.0	98.2	67.2

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**227180.**	**1573200.**	**414320.**
Stddev	4911.	3227.	2258.
%RSD	2.1617	.20513	.54509

Sample Name: CalStd2=0.5 Acquired: 11/20/2019 09:41:41 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Be3130	Cd2265	Cd2288
Units	Cts/S	Cts/S	Cts/S
Avg	**-.000**	**.000**	**.000**
Stddev	.000	.000	.000
%RSD	15.1	33.8	3.03

Int. Std.	Y_2243	Y_3242
Units	Cts/S	Cts/S
Avg	**208820.**	**1478600.**
Stddev	828.	7408.
%RSD	.39647	.50101

Sample Name: CalStd3=1 Acquired: 11/20/2019 09:48:24 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ba2335	Be3130	Cd2265	Cd2288	Co2286	Cr2055	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-8.83**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**-.000**
Stddev	5.22	.000	.000	.000	.000	.000	.000	.000
%RSD	59.2	14.0	11.9	24.8	7.01	11.4	38.4	88.5

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**210250.**	**1481200.**	**408230.**
Stddev	646.	7953.	2397.
%RSD	.30725	.53693	.58720

Sample Name: CalStd4=5 Acquired: 11/20/2019 09:54:40 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ba2335	Be3130	Cd2265	Cd2288	Co2286	Cr2055	Cr2677	Mn2576	Mo2020	Mo2045	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	3.88	.996	.818	3.87	3.13	6.58	17.9	2.34	7.08	17.4	14.0	13.1

Elem	Sb2175
Units	Cts/S
Avg	**.000**
Stddev	.000
%RSD	63.8

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**210870.**	**1483700.**	**414620.**
Stddev	695.	10535.	3883.
%RSD	.32939	.71004	.93657

Sample Name: CalStd5=10 Acquired: 11/20/2019 10:00:56 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1972	Ba2335	Be3130	Cd2265	Cd2288	Co2286	Cr2055	Cr2677	Cu2230
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**30.6**	**.000**	**3.96**	**.000**	**.000**	**.001**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	2.4	.000	.58	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	7.93	4.62	14.6	27.8	3.24	1.08	.780	1.14	1.48	3.05	2.05	6.53

Elem	Mn2576	Mo2020	Mo2045	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.58	3.54	5.50	3.09	19.2	10.4	12.1	11.1	11.3	6.14	2.76	1.30

Elem	Zn2138	B_2497
Units	Cts/S	Cts/S
Avg	**.001**	**.000**
Stddev	.000	.000
%RSD	.726	3.51

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**210360.**	**1495700.**	**416090.**
Stddev	568.	9540.	2185.
%RSD	.26982	.63786	.52506

Sample Name: CalStd6=20 Acquired: 11/20/2019 10:07:11 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ba2335	Cu2230	Mn2576	Mo2020	Mo2045	Sb2175	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000
%RSD	1.45	1.76	.938	1.46	2.84	10.8	.345

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**210060.**	**1488300.**	**410140.**
Stddev	759.	8419.	1856.
%RSD	.36135	.56567	.45249

Sample Name: CalStd7=50 Acquired: 11/20/2019 10:13:22 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	As1937	As1972	Be2348	Cd2265	Cd2288	Co2286	Cr2055	Cr2677	Cu2230	Mn2576	Mo2020	Mo2045
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**16.7**	**.000**	**.001**	**.001**	**.003**	**.001**	**.001**	**.000**	**.000**	**.001**	**.000**	**.000**
Stddev	.2	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.44	4.23	.808	.383	.630	.538	.266	.443	2.00	.693	.863	1.07

Elem	Ni2316	Sb2068	Se1960	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.001**	**.000**	**.000**	**.000**
Stddev	.000	.000	.000	.000
%RSD	1.13	2.93	2.35	.485

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**210100.**	**1480600.**	**411900.**
Stddev	479.	10088.	3773.
%RSD	.22819	.68131	.91592

Sample Name: CalStd8=100 Acquired: 11/20/2019 10:19:33 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	As1972	Ba2335	Ba4934	Be3130	Be2348	Ca3968	Cd2265	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**344.**	**.000**	**.000**	**27.6**	**.000**	**.001**	**.023**	**.007**	**.001**	**.015**	**.002**	**.004**
Stddev	4.	.000	.000	.9	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.19	4.07	.588	3.33	8.60	.489	.718	.309	.446	.622	.226	.670

Elem	Co2286	Co2388	Cr2055	Cr2677	Cu2230	Mg2802	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.000**	**.001**	**.000**	**.000**	**.004**	**.001**	**.001**	**.001**	**.001**	**.001**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.159	.826	.303	.902	.731	.433	.417	.253	.686	.222	.377	2.61

Elem	Pb2203	Sb2175	Se1960	Se2062	Tl1908	V_2908	V_2924	Zn2062	Zn2138	B_2497
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.000**	**.000**	**.000**	**.000**	**.000**	**.000**	**.001**	**.002**	**.004**	**.000**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	1.31	3.55	1.81	26.5	.489	1.80	.873	.175	.547	1.09

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**210740.**	**1489300.**	**414890.**
Stddev	374.	5806.	2251.
%RSD	.17754	.38985	.54250

Sample Name: CalStd9=1000 Acquired: 11/20/2019 10:25:45 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Al1670	Al3961	As1937	As1972	Ba2335	Ba4934	Be3130	Be2348	Ca3158	Ca3968	Cd2265	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.002**	**.002**	**279.**	**.001**	**.009**	**.075**	**.072**	**.009**	**.001**	**.140**	**.020**	**.041**
Stddev	.000	.000	1.	.000	.000	.001	.000	.000	.000	.001	.000	.000
%RSD	.304	1.03	.306	.542	.197	.675	.448	.756	.846	.599	.130	.248

Elem	Co2286	Co2388	Cr2055	Cr2677	Cu2230	Fe2343	Fe2395	Fe2599	Mg2025	Mg2802	Mn2576	Mn2593
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.021**	**.002**	**.011**	**.003**	**.004**	**609.**	**.001**	**.002**	**.002**	**.035**	**.012**	**.006**
Stddev	.000	.000	.000	.000	.000	4.	.000	.000	.000	.000	.000	.000
%RSD	.071	.255	.069	.650	.069	.701	1.15	.910	.373	.515	.492	.980

Elem	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960	Se2062	Tl1908	V_2908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.008**	**.005**	**.014**	**.013**	**.001**	**.003**	**.002**	**.002**	**.001**	**.000**	**.002**	**.002**
Stddev	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
%RSD	.143	.132	.114	.088	.197	.382	.650	.153	.656	2.33	.368	.671

Elem	V_2924	Zn2062	Zn2138	B_2497	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.007**	**.018**	**.039**	**.003**	**.002**
Stddev	.000	.000	.000	.000	.000
%RSD	.434	.161	.073	.677	3.24

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**211160.**	**1492300.**	**413820.**
Stddev	272.	4483.	3118.
%RSD	.12869	.30037	.75351

Sample Name: CalStd10=10000 Acquired: 11/20/2019 10:31:19 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Al3961	As1972	Ba4934	Ca3158	Ca3968	Co2286	Co2388	Cr2055	Cr2677	Cu2230	Fe2343	Fe2395
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.022**	**.006**	**.610**	**.006**	**1.42**	**.203**	**.023**	**.110**	**.029**	**.037**	**5550.**	**.011**
Stddev	.000	.000	.008	.000	.04	.000	.000	.000	.000	.000	3.	.000
%RSD	1.42	.346	1.39	1.27	2.74	.235	.294	.156	.340	.237	.056	.842

Elem	Fe2599	Mg2025	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Sb2068	Sb2175	Se2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.024**	**.015**	**.324**	**.114**	**.063**	**.052**	**.137**	**.131**	**.011**	**.018**	**.018**	**.002**
Stddev	.000	.000	.003	.001	.001	.000	.000	.000	.000	.000	.000	.000
%RSD	1.16	.185	.771	.705	1.40	.175	.193	.135	.198	.384	.319	.469

Elem	Tl1908	V_2908	V_2924	Zn2062	B_2497	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.021**	**.016**	**.067**	**.184**	**.031**	**.017**
Stddev	.000	.000	.000	.000	.000	.000
%RSD	.427	1.23	.352	.116	.059	1.77

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**207240.**	**1454700.**	**409800.**
Stddev	452.	5232.	3313.
%RSD	.21792	.35970	.80843

Sample Name: CalStd12=100K Acquired: 11/20/2019 10:38:01 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Cr2055	Mn2593	Pb2169	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.922**	**.586**	**.109**	**1.54**
Stddev	.004	.001	.001	.00
%RSD	.413	.222	.476	.265

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**207190.**	**1470300.**	**407020.**
Stddev	633.	5888.	3472.
%RSD	.30544	.40043	.85308

Sample Name: CalStd13=100000 Acquired: 11/20/2019 10:44:39 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3158	Fe2343	Fe2395	Fe2599	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.236**	**.059**	**54300.**	**.121**	**.258**	**.177**
Stddev	.001	.000	88.	.001	.002	.000
%RSD	.498	.576	.162	.474	.743	.233

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**199430.**	**402320.**
Stddev	391.	2373.
%RSD	.19588	.58971

Sample Name: CalStd14=500000 Acquired: 11/20/2019 10:50:35 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3158	Fe2395	Fe2599	Mg2025
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.15**	**.271**	**.530**	**1.11**	**.756**
Stddev	.01	.001	.003	.00	.003
%RSD	.755	.320	.562	.287	.353

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**180670.**	**384410.**
Stddev	226.	1223.
%RSD	.12502	.31807

Sample Name: CalibStd15=1000k Acquired: 11/20/2019 10:57:38 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Al3961	Ca3158	Fe2395	Mg2025	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.26**	**.516**	**.989**	**1.41**	**1.57**
Stddev	.01	.005	.009	.00	.01
%RSD	.564	1.05	.925	.159	.883

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**159630.**	**355420.**
Stddev	302.	3186.
%RSD	.18926	.89646

Sample Name: Ag Ba 1000, 50000 Acquired: 11/20/2019 11:05:33 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Ba4934
Units	Cts/S	Cts/S	Cts/S
Avg	**3770.**	**.001**	**2.75**
Stddev	23.	.000	.02
%RSD	.613	1.05	.595

Int. Std.	Y_3710
Units	Cts/S
Avg	**410620.**
Stddev	2542.
%RSD	.61917

Sample Name: icv Acquired: 11/20/2019 11:24:42 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3382	Al3082	As1937	As1972	Ba4934	Be3130	Ca3179	Ca3968	Cd2265	Co2286	Cr2677	Cu2230
Avg	**51.0**	**10900.**	**1900.**	**1930.**	**2000.**	**47.8**	**9500.**	**9140.**	**47.7**	**494.**	**196.**	**244.**
Stddev	.7	50.	3.	17.	9.	.1	93.	148.	.2	2.	2.	.
%RSD	1.34	.459	.164	.857	.452	.272	.980	1.62	.425	.371	.932	.007
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Fe2599	Mg2790	Mn2576	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175	Se1960
Avg	**5000.**	**9610.**	**487.**	**488.**	**486.**	**481.**	**483.**	**466.**	**489.**	**479.**	**488.**	**1970.**
Stddev	36.	15.	2.	1.	1.	2.	2.	4.	.	.	3.	11.
%RSD	.724	.152	.492	.232	.285	.429	.467	.839	.058	.004	.548	.553
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Se2062	Tl1908	V_2924	Zn2062	Zn2138	K_7664
Avg	**1930.**	**1920.**	**485.**	**485.**	**490.**	**4860.**
Stddev	21.	8.	2.	2.	1.	35.
%RSD	1.09	.393	.410	.389	.151	.728
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: icv Acquired: 11/20/2019 11:24:42 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**205160.**	**1477100.**	**399950.**
Stddev	65.	2198.	1948.
%RSD	.03158	.14883	.48695

Sample Name: ICVLL Acquired: 11/20/2019 11:30:55 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	Al3961	As1937	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2230
Avg	F **38.3**	F **37.3**	**1340.**	**1270.**	**66.6**	**33.7**	**13.8**	**1690.**	**17.4**	**35.1**	**32.3**	**36.6**
Stddev	.3	1.7	3.	17.	3.9	.3	.1	22.	.2	.2	.3	.6
%RSD	.837	4.65	.234	1.31	5.91	.809	.405	1.30	.896	.590	.859	1.59
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	60.0	60.0										
Range	-30.0%	-30.0%										

Elem	Fe2343	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497
Avg	**1040.**	**1640.**	**33.2**	**35.8**	**34.9**	**33.0**	**69.3**	**70.8**	**72.0**	**34.6**	**37.1**	**68.6**
Stddev	4.	4.	.2	.2	.4	.7	2.0	2.3	2.2	.6	.2	.7
%RSD	.389	.265	.747	.573	1.09	2.21	2.81	3.18	3.01	1.77	.505	.948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664
Avg	**16800.**
Stddev	210.
%RSD	1.25
Check ?	Chk Pass
Value	
Range	

Sample Name: ICVLL Acquired: 11/20/2019 11:30:55 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**205880.**	**1490400.**	**402740.**
Stddev	124.	3469.	3390.
%RSD	.06021	.23274	.84178

Sample Name: icb Acquired: 11/20/2019 11:37:01 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2230	Fe2343
Avg	**-.061**	**4.10**	**.485**	**.453**	**-1.11**	**.009**	**.139**	**-.156**	**.110**	**-.368**	**-.666**	**.353**
Stddev	.498	6.04	.653	1.77	.33	.026	.072	.082	.161	.339	.858	2.72
%RSD	821.	148.	135.	391.	29.9	279.	51.6	52.7	146.	92.1	129.	770.
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497	K_7664
Avg	**.059**	**.040**	**-.778**	**.205**	**.099**	**1.77**	**-5.49**	**4.35**	**-.048**	**.120**	**1.42**	**99.6**
Stddev	.055	.040	.115	.492	.886	2.63	4.66	1.19	.416	.115	.33	9.6
%RSD	93.0	98.5	14.8	240.	898.	148.	85.0	27.4	869.	95.6	23.2	9.64
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**217400.**	**1571500.**	**423580.**
Stddev	356.	2855.	3896.
%RSD	.16395	.18165	.91974

Sample Name: MRL/LLOQ Acquired: 11/20/2019 11:49:28 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2230	Fe2343
Avg	F **13.3**	**16.4**	**418.**	**18.2**	**9.14**	**4.11**	**503.**	**5.08**	**10.4**	**9.38**	**11.4**	**322.**
Stddev	.5	1.6	2.	3.2	.33	.05	6.	.34	.3	.27	.8	2.
%RSD	3.90	9.65	.378	17.7	3.58	1.20	1.10	6.69	2.53	2.89	6.99	.695
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	20.0											
Range	-30.0%											

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497	K_7664
Avg	**496.**	**10.2**	**9.74**	**10.4**	**11.0**	**23.3**	**18.1**	**20.3**	**10.1**	**12.3**	**21.0**	**5130.**
Stddev	7.	.2	.25	.4	2.3	1.4	2.6	1.8	.1	.1	.7	60.
%RSD	1.38	1.61	2.54	4.12	20.4	5.90	14.2	8.73	1.38	.475	3.37	1.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**207570.**	**1494200.**	**406050.**
Stddev	185.	10230.	4145.
%RSD	.08914	.68466	1.0208

Sample Name: ICSA Acquired: 11/20/2019 11:55:38 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al3961	As1937	Ba2335	Be3130	Ca3158	Cd2265	Co2286	Cr2677	Cu2230
Avg	**-.384**	**-.000**	**441000.**	**-.013**	**-.000**	**-.315**	**430000.**	**-.001**	**-1.61**	**3.01**	**.547**
Stddev	.612	3.83	5220.	9.46	.523	.013	3880.	.561	.12	.48	1.99
%RSD	159.	13e15	1.18	71900.	217000.	4.27	.903	42000.	7.26	15.9	363.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Fe2395	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2908	V_2924
Avg	**451000.**	**416000.**	**-1.46**	**-.866**	**-1.33**	**.852**	**.375**	**-1.97**	**1.42**	**9860.**	**9430.**
Stddev	3210.	1050.	.28	.871	.85	3.30	2.73	11.4	1.39	65.	35.
%RSD	.711	.252	19.3	101.	64.2	387.	727.	579.	97.8	.654	.371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
High Limit											
Low Limit											

Elem	Zn2138	B_2497	K_7664
Avg	**-3.39**	**.006**	**-83.6**
Stddev	.79	1.06	11.8
%RSD	23.2	16700.	14.2
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: ICSA Acquired: 11/20/2019 11:55:38 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**179910.**	**1317000.**	**378360.**
Stddev	582.	2750.	3323.
%RSD	.32326	.20882	.87825

Sample Name: ICSAB Acquired: 11/20/2019 12:02:39 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al3961	As1937	As1972	Ba2335	Be2348	Ca3158	Cd2288	Co2286	Cr2055
Avg	**410.**	**460.**	**453000.**	**489.**	**468.**	**499.**	**467.**	**441000.**	**465.**	**480.**	**498.**
Stddev	1.	6.	6250.	8.	12.	1.	4.	3750.	1.	1.	2.
%RSD	.141	1.34	1.38	1.57	2.53	.155	.865	.849	.222	.168	.345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Cr2677	Cu2230	Fe2395	Mg2025	Mn2576	Mn2593	Mo2045	Ni2216	Ni2316	Pb2203	Sb2068
Avg	**479.**	**511.**	**440000.**	**426000.**	**461.**	**477.**	**1460.**	**458.**	**469.**	**443.**	**473.**
Stddev	3.	4.	4400.	1650.	1.	11.	3.	1.	1.	2.	7.
%RSD	.617	.788	1.00	.386	.212	2.30	.183	.208	.282	.513	1.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Sb2175	Se1960	Tl1908	V_2924	Zn2062	Zn2138	B_2497	K_7664
Avg	**507.**	**510.**	**482.**	**505.**	**462.**	**506.**	**493.**	**10700.**
Stddev	8.	9.	3.	1.	1.	2.	5.	110.
%RSD	1.50	1.81	.707	.295	.269	.412	.925	1.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICSAB Acquired: 11/20/2019 12:02:39 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**181540.**	**1317300.**	**381380.**
Stddev	658.	3434.	3124.
%RSD	.36225	.26066	.81919

Sample Name: ICVLL ag Acquired: 11/20/2019 12:15:28 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2230	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**8.80**	**11.8**	**4.99**	**-3.04**	**-1.20**	**.013**	**12.5**	**-.130**	**.035**	**-.371**	**.859**	**50.2**
Stddev	.50	2.8	.57	2.39	.20	.012	.5	.203	.289	.445	1.08	7.5
%RSD	5.73	23.8	11.4	78.6	17.1	90.1	3.77	155.	837.	120.	125.	14.9

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497	K_7664
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**6.41**	**.356**	**.183**	**-.161**	**-.617**	**2.21**	**.417**	**3.26**	**.465**	**.572**	**.953**	**66.4**
Stddev	.22	.097	.535	.226	2.44	.81	2.99	1.51	.358	.126	.533	14.4
%RSD	3.38	27.1	293.	141.	396.	37.0	718.	46.4	77.0	22.1	56.0	21.7

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**209690.**	**1496000.**	**401790.**
Stddev	443.	5326.	3318.
%RSD	.21141	.35601	.82574

Sample Name: ccv1 Acquired: 11/21/2019 05:56:21 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al3082	As1972	Ba4934	Be2348	Ca3158	Ca3968	Cd2288	Co2388	Cr2055	Cu2230	Fe2599
Avg	**446.**	**4780.**	**5160.**	**4870.**	**512.**	**4520.**	**4740.**	**545.**	**4920.**	**4940.**	**5200.**	**5410.**
Stddev	2.	59.	15.	68.	7.	62.	61.	1.	23.	17.	15.	80.
%RSD	.521	1.24	.296	1.39	1.40	1.38	1.29	.192	.459	.353	.285	1.48
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value												
Range												

Elem	Mg2025	Mn2576	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Sb2068	Se2062	Tl1908	V_2908	V_2924
Avg	**4940.**	**5170.**	**5200.**	**5260.**	**4940.**	**5030.**	**5160.**	**5080.**	**5450.**	**4800.**	**5170.**	**5060.**
Stddev	29.	37.	71.	22.	13.	15.	22.	12.	44.	21.	65.	27.
%RSD	.593	.717	1.37	.426	.259	.296	.433	.232	.815	.438	1.26	.525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Zn2062	B_2497	K_7664
Avg	**4710.**	**4720.**	**49300.**
Stddev	18.	11.	616.
%RSD	.385	.222	1.25
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: ccv1 Acquired: 11/21/2019 05:56:21 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**190590.**	**1311400.**	**372150.**
Stddev	760.	4346.	4374.
%RSD	.39892	.33142	1.1752

Sample Name: ccv2 Acquired: 11/21/2019 06:02:36 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1972	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2055	Cr2677	Cu2230
Avg	**51.4**	**544.**	**497.**	**524.**	**541.**	**53.4**	**489.**	**49.6**	**501.**	**509.**	**550.**	**547.**
Stddev	1.2	2.	7.	1.	1.	.0	.	.1	1.	.	2.	1.
%RSD	2.32	.356	1.48	.152	.230	.025	.026	.151	.256	.048	.359	.151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Fe2343	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Avg	**532.**	**543.**	**536.**	**537.**	**547.**	**537.**	**516.**	**527.**	**526.**	**543.**	**516.**	**511.**
Stddev	2.	1.	.	1.	.	4.	1.	1.	4.	4.	2.	2.
%RSD	.365	.150	.049	.219	.059	.741	.288	.141	.716	.650	.392	.422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Tl1908	V_2924	Zn2062	Zn2138	B_2497	K_7664
Avg	**508.**	**506.**	**520.**	**483.**	**512.**	**489.**	**5290.**
Stddev	1.	1.	.	1.	.	.	8.
%RSD	.128	.184	.027	.269	.033	.082	.143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ccv2 Acquired: 11/21/2019 06:02:36 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**197000.**	**1355200.**	**372870.**
Stddev	392.	1211.	1413.
%RSD	.19907	.08937	.37894

Sample Name: ccb Acquired: 11/21/2019 06:08:24 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2230	Fe2343
Avg	**-1.21**	**1.62**	**2.43**	**-.355**	**.398**	**.197**	**6.47**	**.069**	**1.03**	**.134**	**.739**	**-.608**
Stddev	.47	6.27	.30	.764	.130	.088	.07	.140	.21	.083	1.84	1.45
%RSD	39.3	387.	12.2	215.	32.6	44.5	1.12	201.	20.7	61.9	249.	239.
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497	K_7664
Avg	**3.55**	**.661**	**2.58**	**1.91**	**.908**	**2.63**	**1.43**	**7.29**	**-.197**	**2.00**	**8.00**	**63.4**
Stddev	.96	.076	.32	.09	2.79	2.64	.65	3.87	.059	.24	.10	30.6
%RSD	27.1	11.4	12.3	4.65	308.	100.	45.3	53.1	30.1	11.8	1.25	48.2
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**207390.**	**1424400.**	**392230.**
Stddev	1137.	12093.	364.
%RSD	.54812	.84903	.09283

Sample Name: lcsw74587 Acquired: 11/21/2019 07:13:05 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1972	Ba2335	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**16.8**	**764.**	**717.**	**824.**	**794.**	**19.7**	**197000.**	**17.8**	**186.**	**80.2**	**100.**
Stddev	.9	2.	3.	7.	4.	.1	1500.	.2	.	.4	1.
%RSD	5.41	.225	.443	.790	.460	.676	.759	1.18	.129	.463	1.18

Elem	Fe2343	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138
Units	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**319.**	**93200.**	**193.**	**.690**	**191.**	**193.**	**198.**	**785.**	**723.**	**199.**	**205.**
Stddev	3.	512.	1.	.396	1.	1.	4.	4.	2.	1.	1.
%RSD	1.06	.549	.539	57.3	.448	.706	2.23	.554	.272	.672	.247

Elem	B_2497	K_7664
Units	ug/L	ug/L
Avg	**.925**	**98200.**
Stddev	.485	452.
%RSD	52.4	.460

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**180380.**	**1266800.**	**369980.**
Stddev	551.	2932.	2427.
%RSD	.30538	.23147	.65594

Sample Name: ccv1 Acquired: 11/21/2019 07:19:36 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al3082	As1972	Ba4934	Be2348	Ca3968	Cd2288	Co2388	Cr2055	Cu2230	Fe2599
Avg	**437.**	**320.**	**4680.**	**5130.**	**4830.**	**503.**	**4720.**	**537.**	**4900.**	**4930.**	**5160.**	**5120.**
Stddev	2.	10.	53.	11.	50.	3.	32.	1.	22.	6.	7.	40.
%RSD	.522	3.09	1.13	.223	1.04	.543	.686	.125	.449	.129	.129	.789
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value												
Range												

Elem	Mg2025	Mn2576	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Sb2068	Se2062	Tl1908	V_2908	V_2924
Avg	**4890.**	**5090.**	**5150.**	**5210.**	**4910.**	**4990.**	**5130.**	**5070.**	**5350.**	**4790.**	**5040.**	**5030.**
Stddev	19.	21.	42.	3.	6.	7.	18.	14.	44.	10.	43.	15.
%RSD	.384	.404	.820	.052	.115	.136	.349	.281	.821	.211	.861	.306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Zn2062	B_2497	K_7664
Avg	**4690.**	**4670.**	**49200.**
Stddev	8.	14.	491.
%RSD	.177	.304	.999
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: ccv1 Acquired: 11/21/2019 07:19:36 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**190010.**	**1322100.**	**374560.**
Stddev	446.	3384.	2622.
%RSD	.23484	.25597	.69989

Sample Name: ccv2 Acquired: 11/21/2019 07:25:52 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1972	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2055	Cr2677	Cu2230
Avg	**50.9**	**541.**	**492.**	**525.**	**538.**	**52.8**	**490.**	**49.5**	**504.**	**511.**	**534.**	**546.**
Stddev	.9	2.	2.	3.	2.	.3	3.	.3	2.	1.	5.	3.
%RSD	1.70	.291	.422	.514	.332	.594	.642	.540	.315	.269	.971	.527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Fe2343	Mg2802	Mn2576	Mn2593	Mo2020	Mo2045	Ni2216	Ni2316	Pb2169	Pb2203	Sb2068	Sb2175
Avg	**495.**	**533.**	**526.**	**535.**	**544.**	**535.**	**515.**	**525.**	**531.**	**540.**	**522.**	**515.**
Stddev	1.	4.	3.	1.	1.	2.	1.	1.	5.	3.	3.	3.
%RSD	.212	.721	.576	.237	.155	.325	.164	.208	.900	.619	.550	.553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Tl1908	V_2924	Zn2062	Zn2138	B_2497	K_7664
Avg	**521.**	**515.**	**519.**	**483.**	**515.**	**486.**	**5300.**
Stddev	7.	2.	4.	1.	1.	3.	40.
%RSD	1.28	.368	.846	.237	.165	.673	.749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ccv2 Acquired: 11/21/2019 07:25:52 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**194620.**	**1363700.**	**374540.**
Stddev	259.	4588.	1059.
%RSD	.13332	.33642	.28283

Sample Name: ccb Acquired: 11/21/2019 07:31:40 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2230	Fe2343
Avg	**-1.51**	**2.21**	**2.62**	**.582**	**.540**	**.149**	**5.41**	**.004**	**1.73**	**.306**	**1.72**	**-1.94**
Stddev	.18	4.15	.47	6.53	.340	.013	.01	.026	.11	.664	1.28	1.61
%RSD	11.9	188.	17.9	1120.	62.8	9.00	.084	621.	6.04	217.	74.4	82.9
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497	K_7664
Avg	**1.81**	**1.78**	**2.33**	**1.70**	**-.160**	**1.55**	**2.05**	**6.41**	**1.87**	**2.00**	**5.53**	**31.4**
Stddev	.00	.01	.75	.21	1.31	1.69	.74	.28	.16	.07	.74	5.0
%RSD	.075	.748	32.2	12.3	816.	109.	36.1	4.30	8.66	3.59	13.4	15.8
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**206180.**	**1432300.**	**395170.**
Stddev	309.	2641.	50.
%RSD	.14976	.18438	.01274

Sample Name: mbw74587 Acquired: 11/21/2019 07:37:59 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2230	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.789**	**1.46**	**1.80**	**-1.70**	**-1.25**	**-.030**	**7.14**	**-.390**	**.033**	**-.230**	**2.40**	**42.7**
Stddev	.146	4.84	.71	1.21	.14	.011	.33	.086	.215	.749	1.20	1.9
%RSD	18.4	331.	39.2	71.4	11.4	34.8	4.63	22.2	651.	326.	49.9	4.35

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497	K_7664
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.07**	**.460**	**.746**	**-.196**	**-1.48**	**.586**	**-.096**	**8.29**	**.499**	**2.98**	**3.65**	**7.50**
Stddev	.03	.062	.299	.225	1.43	.856	1.71	2.64	.199	.06	.22	14.6
%RSD	2.35	13.4	40.1	115.	96.8	146.	1780.	31.8	39.9	1.94	5.99	195.

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**195480.**	**1364700.**	**372760.**
Stddev	465.	4257.	1500.
%RSD	.23773	.31195	.40229

Sample Name: 356218 Acquired: 11/21/2019 07:44:17 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	Ba2335	Be3130	Ca3158	Cd2265	Co2286	Cr2677	Cu2230	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.18**	**35.0**	**563.**	**.651**	**441.**	**.318**	**32000.**	**.387**	**2.30**	**1.29**	**16.4**	**466.**
Stddev	.42	4.9	24.	2.05	1.	.019	125.	.167	.17	.52	1.2	2.
%RSD	35.8	13.9	4.31	316.	.257	5.88	.390	43.2	7.53	40.3	7.58	.505

Elem	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497	K_7664
Units	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**25000.**	**75.2**	**.882**	**7.63**	**17.4**	**2.69**	**10.5**	**-4.28**	**2.19**	**91.4**	**171.**	**1650.**
Stddev	80.	.4	.627	.47	.5	.49	3.5	2.77	.77	.3	1.	30.
%RSD	.322	.557	71.1	6.23	2.94	18.1	33.0	64.8	35.4	.310	.675	1.79

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**171150.**	**1193500.**	**365810.**
Stddev	660.	3686.	1470.
%RSD	.38544	.30884	.40186

Sample Name: I356218 Acquired: 11/21/2019 07:51:22 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	Ba2335	Be3130	Ca3158	Ca3968	Cd2265	Co2286	Cr2677	Cu2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.26**	**12.2**	**233.**	**.509**	**87.9**	**.040**	**9210.**	**9870.**	**-.040**	**.253**	**-.539**	**3.80**
Stddev	.25	3.3	20.	3.28	6.5	.023	501.	440.	.156	.247	.493	1.04
%RSD	19.5	27.1	8.69	644.	7.35	56.9	5.44	4.46	388.	97.9	91.4	27.4

Elem	Fe2343	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497
Units	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**168.**	**5240.**	**18.7**	**-.423**	**1.61**	**3.50**	**-.418**	**-.503**	**2.20**	**1.30**	**18.4**	**44.4**
Stddev	8.	388.	1.0	.251	.33	.82	1.74	3.38	1.24	.41	1.5	2.0
%RSD	4.50	7.40	5.44	59.2	20.6	23.3	417.	672.	56.6	31.1	7.96	4.50

Elem	K_7664
Units	ug/L
Avg	**501.**
Stddev	24.
%RSD	4.74

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**188410.**	**1293900.**	**373610.**
Stddev	668.	9994.	2887.
%RSD	.35456	.77242	.77264

Sample Name: dup356218 Acquired: 11/21/2019 07:58:32 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	Ba2335	Be3130	Ca3158	Cd2265	Co2286	Cr2677	Cu2230	Fe2343
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.671**	**37.4**	**642.**	**6.87**	**438.**	**.271**	**31000.**	**.237**	**2.23**	**1.71**	**14.0**	**460.**
Stddev	.745	4.0	62.	2.60	1.	.034	269.	.171	.43	.97	.5	4.
%RSD	111.	10.6	9.63	37.8	.286	12.6	.867	72.4	19.1	56.9	3.24	.855

Elem	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497	K_7664
Units	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**25800.**	**73.7**	**.457**	**7.52**	**17.0**	**.343**	**11.4**	**-8.18**	**2.20**	**90.3**	**172.**	**1720.**
Stddev	116.	.7	.181	.11	.5	1.37	5.5	1.33	.35	.4	2.	16.
%RSD	.449	.928	39.6	1.48	3.07	400.	47.9	16.2	15.9	.421	1.18	.924

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**165100.**	**1182600.**	**369930.**
Stddev	827.	9672.	2940.
%RSD	.50076	.81784	.79470

Sample Name: msw356218 Acquired: 11/21/2019 08:05:36 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	Al3961	As1937	As1972	Ba4934	Be3130	Ca3158	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**16.0**	**160.**	**1410.**	**1410.**	**688.**	**914.**	**1170.**	**19.6**	**183000.**	**17.4**	**180.**
Stddev	.6	5.	13.	3.	7.	8.	5.	.1	1040.	.3	1.
%RSD	3.56	3.03	.883	.202	.958	.894	.402	.702	.569	1.60	.324

Elem	Cr2677	Cu2230	Fe2343	Fe2599	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960
Units	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**79.4**	**117.**	**743.**	**1100.**	**121000.**	**253.**	**.981**	**188.**	**194.**	**209.**	**907.**
Stddev	1.1	2.	6.	6.	667.	2.	.586	1.	3.	1.	9.
%RSD	1.39	1.71	.810	.557	.550	.628	59.7	.456	1.36	.533	1.03

Elem	Se2062	Tl1908	V_2924	Zn2138	B_2497	K_7664
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1020.**	**611.**	**198.**	**294.**	**165.**	**106000.**
Stddev	38.	2.	1.	2.	1.	408.
%RSD	3.75	.326	.663	.592	.401	.386

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**154320.**	**1125900.**	**372340.**
Stddev	764.	2690.	1697.
%RSD	.49531	.23895	.45582

Sample Name: msdw356218 Acquired: 11/21/2019 08:12:18 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	Al3961	As1937	As1972	Ba4934	Be3130	Ca3158	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**16.9**	**166.**	**1430.**	**1440.**	**707.**	**929.**	**1220.**	**20.4**	**188000.**	**18.0**	**184.**
Stddev	.6	5.	13.	21.	6.	8.	9.	.2	2320.	.3	1.
%RSD	3.64	2.73	.875	1.44	.793	.895	.748	1.10	1.23	1.94	.492

Elem	Cr2677	Cu2230	Fe2343	Fe2599	Mg2025	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960
Units	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**82.3**	**119.**	**753.**	**1110.**	**124000.**	**263.**	**-.193**	**192.**	**197.**	**213.**	**922.**
Stddev	1.1	1.	6.	10.	617.	3.	.294	1.	1.	3.	4.
%RSD	1.35	.505	.815	.901	.496	1.22	153.	.506	.387	1.34	.468

Elem	Se2062	Tl1908	V_2924	Zn2138	B_2497	K_7664
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1050.**	**631.**	**205.**	**304.**	**170.**	**109000.**
Stddev	30.	2.	3.	1.	2.	566.
%RSD	2.82	.386	1.41	.243	.930	.517

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**155540.**	**1125400.**	**373780.**
Stddev	925.	6953.	2387.
%RSD	.59482	.61782	.63873

Sample Name: pdsw356218 Acquired: 11/21/2019 08:18:58 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al3961	As1972	Ba4934	Be3130	Ca3158	Cd2265	Cd2288	Co2286	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**83.9**	**273.**	**4030.**	**4780.**	**4410.**	**98.0**	**337000.**	**86.8**	**132.**	**895.**	**390.**
Stddev	.2	2.	6.	51.	13.	.9	2570.	.1	1.	2.	2.
%RSD	.288	.772	.149	1.07	.295	.896	.760	.164	.666	.192	.405

Elem	Cr2677	Cu2230	Fe2343	Fe2599	Mg2025	Mn2576	Mn2593	Mo2020	Ni2216	Ni2316	Pb2169
Units	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**391.**	**541.**	**1740.**	**2540.**	**225000.**	**997.**	**753.**	**-.137**	**885.**	**915.**	**1120.**
Stddev	4.	3.	15.	20.	1480.	7.	6.	.483	2.	4.	17.
%RSD	.959	.489	.844	.780	.657	.672	.767	354.	.189	.400	1.50

Elem	Pb2203	Sb2068	Se2062	Tl1908	V_2924	Zn2062	B_2497	K_7664
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**910.**	**1120.**	**5130.**	**3080.**	**993.**	**894.**	**167.**	**2100.**
Stddev	5.	8.	63.	9.	6.	2.	1.	20.
%RSD	.502	.703	1.23	.290	.610	.246	.710	.946

Int. Std.	Y_2243	Y_3242	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**148080.**	**1091500.**	**368890.**
Stddev	1131.	3277.	1215.
%RSD	.76389	.30027	.32934

Sample Name: ccv1 Acquired: 11/21/2019 08:45:24 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al3082	As1972	Ba4934	Be2348	Ca3179	Ca3968	Cd2288	Co2388	Cr2055	Cu2230
Avg	**439.**	**332.**	**4740.**	**5310.**	**4980.**	**501.**	**4500.**	**4810.**	**550.**	**4920.**	**4950.**	**5320.**
Stddev	2.	8.	50.	20.	61.	5.	55.	34.	3.	47.	7.	21.
%RSD	.396	2.49	1.05	.369	1.22	.927	1.22	.701	.476	.965	.148	.390
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value												
Range												

Elem	Fe2599	Mg2025	Mn2576	Mn2593	Mo2045	Ni2216	Ni2316	Pb2169	Sb2068	Se2039	Tl1908	V_2908
Avg	**5030.**	**5190.**	**5120.**	**5030.**	**5320.**	**4930.**	**5060.**	**5420.**	**5260.**	**5370.**	**4900.**	**5030.**
Stddev	35.	30.	49.	18.	15.	14.	13.	32.	26.	23.	17.	37.
%RSD	.694	.582	.959	.360	.285	.279	.256	.594	.491	.435	.342	.726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	V_2924	Zn2062	B_2497	K_7664
Avg	**5070.**	**4540.**	**4800.**	**50800.**
Stddev	46.	10.	39.	607.
%RSD	.911	.230	.818	1.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Sample Name: ccv1 Acquired: 11/21/2019 08:45:24 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**181840.**	**1274500.**	**377130.**
Stddev	636.	10359.	2187.
%RSD	.34965	.81279	.57991

Sample Name: ccv2 Acquired: 11/21/2019 08:51:40 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Al1670	As1937	As1972	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2055	Cr2677	Cu3273
Avg	**50.9**	**544.**	**488.**	**543.**	**550.**	**52.9**	**497.**	**49.7**	**505.**	**513.**	**538.**	**489.**
Stddev	.8	3.	4.	5.	.	.3	1.	.2	2.	1.	2.	3.
%RSD	1.63	.625	.829	.882	.081	.659	.210	.360	.349	.240	.447	.603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Fe2343	Mg2802	Mn2576	Mn2593	Mo2045	Ni2216	Ni2316	Pb2203	Sb2068	Sb2175	Se1960	Tl1908
Avg	**481.**	**533.**	**532.**	**524.**	**547.**	**518.**	**534.**	**551.**	**536.**	**537.**	**527.**	**536.**
Stddev	6.	4.	4.	2.	.	1.	2.	2.	3.	2.	4.	3.
%RSD	1.29	.691	.664	.463	.033	.269	.432	.328	.548	.447	.688	.543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	V_2924	Zn2062	Zn2138	B_2497	K_7664
Avg	**522.**	**467.**	**519.**	**489.**	**5430.**
Stddev	3.	3.	2.	3.	29.
%RSD	.561	.603	.325	.570	.527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ccv2 Acquired: 11/21/2019 08:51:40 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**186600.**	**1320400.**	**377850.**
Stddev	240.	2621.	872.
%RSD	.12837	.19852	.23074

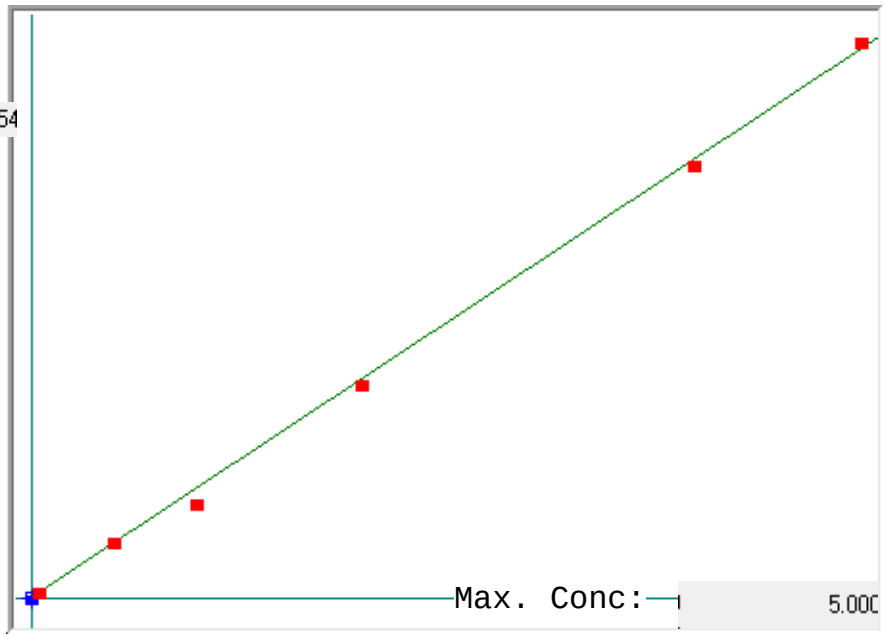
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Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

Elem	Ag3280	Ag3382	Al1670	As1937	Ba2335	Be3130	Ca3968	Cd2265	Co2286	Cr2677	Cu2230	Fe2343
Avg	**-1.19**	**5.04**	**2.53**	**2.24**	**.321**	**.127**	**4.54**	**.057**	**1.53**	**.736**	**1.94**	**.483**
Stddev	.47	3.54	.15	1.82	.148	.030	.08	.167	.21	.889	.92	1.32
%RSD	39.0	70.2	6.06	81.0	46.1	23.5	1.79	290.	13.7	121.	47.2	274.
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Elem	Mg2802	Mn2576	Mo2020	Ni2316	Pb2203	Sb2175	Se1960	Tl1908	V_2924	Zn2138	B_2497	K_7664
Avg	**1.73**	**1.70**	**1.99**	**2.24**	**.850**	**3.98**	**-.651**	**4.28**	**1.70**	**2.07**	**4.38**	**51.7**
Stddev	.02	.06	.50	.19	1.34	1.91	2.88	1.94	.31	.13	.09	29.0
%RSD	1.30	3.59	25.1	8.27	158.	48.0	443.	45.3	18.3	6.11	1.96	56.0
Check ?	None	None	None	None	None	None	None	None	None	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3242	Y_3710
Avg	**198530.**	**1393400.**	**398200.**
Stddev	556.	5411.	3870.
%RSD	.28022	.38835	.97194

Hg Waters



A= 0.0000e+000

B= 1.6474e-004

C= -5.9871e-003

Rho= 0.9971994

Accept= Accepted

Accepted Date=

11/23/19 09:29

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Calibration Blank	0.000	-0.001	-0.001	31	3.808	36	29	26	33	
0.05	0.050	0.057	0.007	384	2.8 %	368	381	390	397	
0.5	0.500	0.515	0.015	3164	2.4 %	3058	3135	3205	3259	
1.0	1.000	0.870	-0.130	5316	3.6 %	5058	5221	5418	5567	
2.0	2.000	1.956	-0.044	11907	3.2 %	11395	11736	12094	12405	
4.0	4.000	3.940	-0.060	23952	2.6 %	23154	23662	24167	24825	
5.0	5.000	5.061	0.061	30754	3.3 %	29491	30233	31126	32166	

112319w

Method: Hg Waters Operator: Admin Date of Analysis: 22 Nov 2019 12:31:31

Sample ID	Date	Element	Units	Extended ID	LT Mean Conc
Calibration Blank		Hg			31.000
0.05		Hg			384.000
0.5		Hg			3164.250
1.0		Hg			5316.000
2.0		Hg			11907.500
4.0		Hg			23952.000
5.0		Hg			30754.000
ICV		Hg			3.000
ICB		Hg			-0.018
357872		Hg			0.052
358081		Hg			0.351
358085		Hg			-0.048
358087		Hg			0.005
358089		Hg			0.001
358091		Hg			0.002
358093		Hg			-0.003
358453		Hg			-0.003
358456		Hg			0.001
CCV		Hg			2.793
CCB		Hg			-0.017
358466		Hg			-0.001
358473		Hg			0.005
358478		Hg			-0.001
358480		Hg			0.165
358482		Hg			-0.028
358872dup 358482		Hg			-0.001
358873msw 358482		Hg			1.756
358874msdw 358482		Hg			1.874
358849lcsw 74541		Hg			1.768
CCV		Hg			2.764
CCB		Hg			-0.013
358848 mbw 74541		Hg			-0.010
357029		Hg			0.259
357030		Hg			-0.041
357031		Hg			0.000
357032		Hg			-0.001
357033		Hg			-0.003
357034		Hg			0.063
357035		Hg			-0.014
357036		Hg			0.000
357037		Hg			0.068
CCV		Hg			2.745
CCB		Hg			-0.009
357038		Hg			0.001
357041		Hg			-0.007
358011		Hg			0.001
358012		Hg			-0.002
358013		Hg			-0.001
358014		Hg			0.004
358015		Hg			0.001
358016		Hg			0.001
358019		Hg			-0.001
358022		Hg			0.041
CCV		Hg			2.813
CCB		Hg			-0.013
358845dup 357032		Hg			-0.002
358846msw 357032		Hg			1.838
358847msdw 357032		Hg			1.775
358852lcsw 74542		Hg			1.728
358851mbw 74542		Hg			-0.018
357861		Hg			0.009
357873		Hg			0.035
358082		Hg			0.055
CCV		Hg			2.792
CCB		Hg			-0.015

112319w

Method: Hg Waters Operator: Admin Date of Analysis: 22 Nov 2019 12:31:31

Sample ID	Date	Element	Units	Extended ID	LT Mean Conc
358086		Hg			-0.004
358088		Hg			0.022
358086		Hg			0.001
358088		Hg			0.014
358090		Hg			-0.001
358092		Hg			0.004
358094		Hg			-0.006
358454		Hg			-0.005
358461		Hg			-0.004
358471		Hg			0.001
358477		Hg			-0.001
358479		Hg			0.001
CCV		Hg			3.044
CCB		Hg			-0.007
358481		Hg			0.100
358483		Hg			-0.017
359008dup 358483		Hg			-0.004
359009msw 358483		Hg			1.890
359010msdw 358483		Hg			1.971
lcsw		Hg			1.890
mbw		Hg			-0.010
CCV		Hg			2.926
CCB		Hg			-0.004
356218		Hg			-0.002
358102		Hg			-0.001
358104		Hg			0.041
359029msw 356218		Hg			1.761
359030msdw 356218		Hg			1.616
358863msw 358102		Hg			1.800
358864msdw 358102		Hg			1.676
358855msw 358104		Hg			1.856
358856msdw 358104		Hg			1.917
CCV		Hg			2.982
CCB		Hg			-0.013
359028dup 356218		Hg			-0.008
357482		Hg			0.006
358859msw 357482		Hg			1.927
358860msdw 357482		Hg			1.926
357483		Hg			-0.273
357484		Hg			-0.003
359905		Hg			-0.000
359906		Hg			-0.007
CCV		Hg			2.893
CCB		Hg			-0.013
359907		Hg		5	0.004
359908		Hg			0.002
359913		Hg			0.005
359914		Hg			0.016
359915		Hg			-0.004
359918		Hg			0.007
360090		Hg			-0.002
360227msw 359906		Hg			1.575
360228msdw 359906		Hg			1.620
CCV		Hg			2.866
CCB		Hg			-0.013

112219bw

Method: Hg Waters Operator: Admin Date of Analysis: 22 Nov 2019 12:31:31

Sample ID	Date	Element	Units	Extended ID	LT Mean Conc
Calibration Blank	22 Nov 2019 12:49:49	Hg			
0.05	22 Nov 2019 12:51:49	Hg			
0.5	22 Nov 2019 12:53:50	Hg			
1.0	22 Nov 2019 12:55:51	Hg			
2.0	22 Nov 2019 12:57:52	Hg			
4.0	22 Nov 2019 12:59:54	Hg			
5.0	22 Nov 2019 13:01:56	Hg			
ICV	22 Nov 2019 13:04:09	Hg			
ICB	22 Nov 2019 13:08:35	Hg			
357872	22 Nov 2019 13:10:34	Hg			
358081	22 Nov 2019 13:12:34	Hg			
358085	22 Nov 2019 13:14:34	Hg			
358087	22 Nov 2019 13:16:34	Hg			
358089	22 Nov 2019 13:18:34	Hg			
358091	22 Nov 2019 13:20:35	Hg			
358093	22 Nov 2019 13:22:36	Hg			
358453	22 Nov 2019 13:24:36	Hg			
358456	22 Nov 2019 13:26:36	Hg			
CCV	22 Nov 2019 13:32:36	Hg			
CCB	22 Nov 2019 13:36:45	Hg			
358466	22 Nov 2019 13:38:45	Hg			
358473	22 Nov 2019 13:40:45	Hg			
358478	22 Nov 2019 13:42:44	Hg			
358480	22 Nov 2019 13:44:44	Hg			
358482	22 Nov 2019 13:46:44	Hg			
358872dup 358482	22 Nov 2019 13:48:44	Hg			
358873msw 358482	22 Nov 2019 13:52:46	Hg			
358874msdw 358482	22 Nov 2019 13:54:49	Hg			
358849lcsw 74541	22 Nov 2019 13:56:51	Hg			
CCV	22 Nov 2019 14:00:55	Hg			
CCB	22 Nov 2019 14:05:00	Hg			
358848 mbw 74541	22 Nov 2019 14:07:00	Hg			
357029	22 Nov 2019 14:08:59	Hg			
357030	22 Nov 2019 14:10:59	Hg			
357031	22 Nov 2019 14:12:59	Hg			
357032	22 Nov 2019 14:14:59	Hg			
357033	22 Nov 2019 14:16:58	Hg			
357034	22 Nov 2019 14:18:59	Hg			
357035	22 Nov 2019 14:20:59	Hg			
357036	22 Nov 2019 14:22:59	Hg			
357037	22 Nov 2019 14:25:00	Hg			
CCV	22 Nov 2019 14:28:59	Hg			
CCB	22 Nov 2019 14:33:06	Hg			
357038	22 Nov 2019 14:35:06	Hg			
357041	22 Nov 2019 14:37:05	Hg			
358011	22 Nov 2019 14:39:06	Hg			
358012	22 Nov 2019 14:41:05	Hg			
358013	22 Nov 2019 14:43:05	Hg			
358014	22 Nov 2019 14:45:04	Hg			
358015	22 Nov 2019 14:47:04	Hg			
358016	22 Nov 2019 14:49:04	Hg			
358019	22 Nov 2019 14:51:04	Hg			
358022	22 Nov 2019 14:53:03	Hg			
CCV	22 Nov 2019 14:57:03	Hg			
CCB	22 Nov 2019 15:01:09	Hg			
358845dup 357032	22 Nov 2019 15:03:09	Hg			
358846msw 357032	22 Nov 2019 15:07:12	Hg			
358847msdw 357032	22 Nov 2019 15:09:14	Hg			
358852lcsw 74542	22 Nov 2019 15:11:17	Hg			
358851mbw 74542	22 Nov 2019 15:15:23	Hg			
357861	22 Nov 2019 15:17:23	Hg			
357873	22 Nov 2019 15:19:23	Hg			
358082	22 Nov 2019 15:21:23	Hg			
CCV	22 Nov 2019 15:25:21	Hg			
CCB	22 Nov 2019 15:29:29	Hg			

112219bw

Method: Hg Waters Operator: Admin Date of Analysis: 22 Nov 2019 12:31:31

Sample ID	Date	Element	Units	Extended ID	LT Mean Conc
358086	22 Nov 2019 15:31:28	Hg			
358088	22 Nov 2019 15:33:28	Hg			
358086	22 Nov 2019 15:46:52	Hg			
358088	22 Nov 2019 15:48:53	Hg			
358090	22 Nov 2019 15:50:54	Hg			
358092	22 Nov 2019 15:52:54	Hg			
358094	22 Nov 2019 15:54:55	Hg			
358454	22 Nov 2019 15:56:55	Hg			
358461	22 Nov 2019 15:58:55	Hg			
358471	22 Nov 2019 16:00:56	Hg			
358477	22 Nov 2019 16:02:56	Hg			
358479	22 Nov 2019 16:04:56	Hg			
CCV	22 Nov 2019 16:08:55	Hg			
CCB	22 Nov 2019 16:13:00	Hg			
358481	22 Nov 2019 16:15:00	Hg			
358483	22 Nov 2019 16:17:00	Hg			
359008dup 358483	22 Nov 2019 16:19:00	Hg			
359009msw 358483	22 Nov 2019 16:23:01	Hg			
359010msdw 358483	22 Nov 2019 16:25:05	Hg			
lcsw	22 Nov 2019 16:29:10	Hg			
mbw	22 Nov 2019 16:33:13	Hg			
CCV	22 Nov 2019 16:37:11	Hg			
CCB	22 Nov 2019 16:41:16	Hg			
356218	22 Nov 2019 16:43:16	Hg			
358102	22 Nov 2019 16:45:14	Hg			
358104	22 Nov 2019 16:47:14	Hg			
359029msw 356218	22 Nov 2019 16:51:14	Hg			
359030msdw 356218	22 Nov 2019 16:53:17	Hg			
358863msw 358102	22 Nov 2019 16:55:20	Hg			
358864msdw 358102	22 Nov 2019 16:57:23	Hg			
358855msw 358104	22 Nov 2019 16:59:27	Hg			
358856msdw 358104	22 Nov 2019 17:01:29	Hg			
CCV	22 Nov 2019 17:05:32	Hg			
CCB	22 Nov 2019 17:09:39	Hg			
359028dup 356218	22 Nov 2019 17:13:39	Hg			
357482	22 Nov 2019 17:15:38	Hg			
358859msw 357482	22 Nov 2019 17:19:37	Hg			
358860msdw 357482	22 Nov 2019 17:21:39	Hg			
357483	22 Nov 2019 17:23:42	Hg			
357484	22 Nov 2019 17:25:44	Hg			
359905	22 Nov 2019 17:27:45	Hg			
359906	22 Nov 2019 17:29:45	Hg			
CCV	22 Nov 2019 17:33:45	Hg			
CCB	22 Nov 2019 17:37:49	Hg			
359907	22 Nov 2019 17:39:49	Hg		5	
359908	22 Nov 2019 17:41:49	Hg			
359913	22 Nov 2019 17:43:49	Hg			
359914	22 Nov 2019 17:45:48	Hg			
359915	22 Nov 2019 17:47:47	Hg			
359918	22 Nov 2019 17:49:46	Hg			
360090	22 Nov 2019 17:51:45	Hg			
360227msw 359906	22 Nov 2019 17:55:45	Hg			
360228msdw 359906	22 Nov 2019 17:57:48	Hg			
CCV	22 Nov 2019 18:01:52	Hg			
CCB	22 Nov 2019 18:05:58	Hg			

METALS
LOGBOOK
DOCUMENTS

MICP QSM TCLP/HARDNESS Analytical Run
166766 on 12/03/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	363217							MICP QSM TCLP/HARDNESS				
				ICV					0			
	363218							MICP QSM TCLP/HARDNESS				
				ICVLL					0			
	363219							MICP QSM TCLP/HARDNESS				
				ICB					0			
	363220							MICP QSM TCLP/HARDNESS				
				ICSA					0			
	363221							MICP QSM TCLP/HARDNESS				
				ICSAB					0			
	363222							MICP QSM TCLP/HARDNESS				
				ICVLL					0			
	363223							MICP QSM TCLP/HARDNESS				
				CCV1					0			
	363224							MICP QSM TCLP/HARDNESS				
				CCV2					0			
	363225							MICP QSM TCLP/HARDNESS				
				CCB					0			
	359032							ICP QSM TCLP 5.0				
				LCSW					74587			
	363226							MICP QSM TCLP/HARDNESS				
				CCV1					0			
	363227							MICP QSM TCLP/HARDNESS				
				CCV2					0			
	363228							MICP QSM TCLP/HARDNESS				
				CCB					0			
	359031							ICP QSM TCLP 5.0				
				MBW					74587			
149511	356218		11/07/2019 1030			HDR, INC	LONGHORN	ICP QSM TCLP 5.0		M		**4**
		46ADPT-TCLP							74587			
	363229							ICP QSM TCLP 5.0				
				L	356218				0			
	359033		11/07/2019 1030					ICP QSM TCLP 5.0				
		46ADPT-TCLP		DUP	356218				74587			
	359034		11/07/2019 1030					ICP QSM TCLP 5.0				
		46ADPT-TCLP		MSW	356218				74587			
	359035		11/07/2019 1030					ICP QSM TCLP 5.0				
		46ADPT-TCLP		MSDW	359034				74587			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MICP QSM TCLP/HARDNESS Analytical Run
166766 on 12/03/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	363230						ICP QSM TCLP 5.0				
				PDSW 356218				0			
	363231						MICP QSM TCLP/HARDNESS				
				CCV1				0			
	363232						MICP QSM TCLP/HARDNESS				
				CCV2				0			
	363233						MICP QSM TCLP/HARDNESS				
				CCB				0			

23 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

MERCURY QSM TCLP 5.0 Analytical Run
166905 on 12/03/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	363339							MERCURY QSM TCLP 5.0				
				ICV					0			
	363340							MERCURY QSM TCLP 5.0				
				ICB					0			
	363341							MERCURY QSM TCLP 5.0				
				CCV					0			
	363342							MERCURY QSM TCLP 5.0				
				CCB					0			
	359027							MERCURY QSM TCLP 5.0				
				LCSW					74586			
	359026							MERCURY QSM TCLP 5.0				
				MBW					74586			
	363343							MERCURY QSM TCLP 5.0				
				CCV					0			
	363344							MERCURY QSM TCLP 5.0				
				CCB					0			
149511	356218		11/07/2019 1030			HDR, INC	LONGHORN	MERCURY QSM TCLP 5.0		M	**4**	
		46ADPT-TCLP							74586			
	359029		11/07/2019 1030					MERCURY QSM TCLP 5.0				
		46ADPT-TCLP		MSW	356218				74586			
	359030		11/07/2019 1030					MERCURY QSM TCLP 5.0				
		46ADPT-TCLP		MSDW	359029				74586			
	363345							MERCURY QSM TCLP 5.0				
				CCV					0			
	363346							MERCURY QSM TCLP 5.0				
				CCB					0			
	359028		11/07/2019 1030					MERCURY QSM TCLP 5.0				
		46ADPT-TCLP		DUP	356218				74586			
	363347							MERCURY QSM TCLP 5.0				
				CCV					0			
	363348							MERCURY QSM TCLP 5.0				
				CCB					0			

16 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

TCLP/SPLP/ASTM Extraction Summary

Batch: 3022 **Date:** 11-15-19 **Analyst (set up):** Bmm **Analyst (take down):** Bmm

Sample #	Parameter	Test			Vessel / ZHE	Buffer Determination			Sample wt.	***Free Liquids Present (Y/N)	Vol. Ext. Fluid	Initial pH	ZHE Initial Press	Time In	Date / Time Out	Ext. Time	End pH	ZHE End Press	Date / Time Filtered	Volume Filtered
	(M / SV / V / WC)	TCLP	SPLP	ASTM	#	Initial pH	* End pH	**Ext. Fluid	(g)		(mL)		(psi)			(hrs)		(psi)		(mL)
Blank	M/SV	x			11G	-	-	1	-	N	2000	4.93	-	1710	11-16-19 0910	16	4.84	-	11-18-19 / 1316	1250
356218	M/SV	x			T1	7.58	1.31	1	100	N	2000	4.96	-	1710	11-16-19 0910	16	4.83	-	11-18-19 / 1320	1300
356503	M	x			8P	7.43	2.93	1	25	N	500	4.89	-	1710	11-16-19 / 0910	16	5.91	-	11-18-19 / 1338	500
356519	M/SV	x			9P	7.87	1.87	1	50	N	1000	4.94	-	1710	11-16-19 / 0910	16	5.87	-	11-18-19 / 1340	980
356535	M	x			18P	8.03	2.40	1	25	N	500	4.96	-	1710	11-16-19 / 0910	16	5.93	-	11-18-19 / 1346	500
356537	M	x			19P	8.13	1.54	1	25	N	500	4.94	-	1710	11-16-19 / 0910	16	5.40	-	11-18-19 / 1350	500
356539	M	x			22P	7.99	1.83	1	25	N	500	4.90	-	1710	11-16-19 / 0910	16	5.16	-	11-18-19 / 1353	500
356541	M/SV	x			25P	8.16	1.97	1	50	N	1000	4.90	-	1710	11-16-19 / 0910	16	5.45	-	11-18-19 / 1356	980
356626	M/SV	x			T4	8.05	1.39	1	100	N	2000	4.87	-	1710	11-16-19 / 0910	16	4.85	-	11-18-19 / 1403	1400
357316	M	x			26P	7.68	1.46	1	50 Bmm 11-18-19 25	N	500	4.86	-	1710	11-16-19 / 0910	16	4.87	-	11-18-19 / 1410	500

Extraction Fluid Used: TCLP #1 **Ext. Fluid ID #: M14044 **Ext. Fluid pH(+/-0.05(°C):** 4.93 **Date measured:** 11-15-19 **Ext. Start Temp (°C):** 21.0

Ext. End Temp(°C): 21.2 **(min:** 20.9 **/ max:** 21.5**)** **(Acceptable Range 21-25°C) Filter Manufacturer:** Env. Express **Filter Lot #:** 400161-9217-D

Balance: VOB01 **pH Meter:** Corning 450 **1N HCL:** M13818 * **Tumbler Unit #(s):** 1

Acceptable rotation rate: 30 ±2 rpm **Verified Rotation rate:** 31 rpm *End pH = pH of representative sample (if initially >5.0) after adding 1N HCl and heating @ 50°C (covered) for 10 minutes and then cooled to room temperature.

M=Metals, SV=Semi Volatiles, V=Volatiles, WC=Wet Chemistry

% Solids Calculation Worksheet

Tare weights (g) *Transfer weights (g)* *Separation weights (g)* *% Solids Calculations*

Sample #	A Filter wt.	B Filtrate Vessel wt.	C Transfer Vessel wt.	D Sample + Transfer Vessel	E Sample wt {D - C}	F Vessel wt. Post Transfer	G Residue wt. {F – C}	H Total Waste Amount {E – G}	I Filtrate Vessel + Filtrate	J Liquid Phase of Sample {I – B}	K Solid Phase of Sample {H – J}	L. % Solids (**) (K/H*100)	M Waste + Filter (Dry) wt. (g)	% Solids (Dry) ({M – A}/H)*100

(***) If Solids = <0.5%, treat filtrate as TCLP extract, if free liquid present use % Solids Calculation Worksheet

Reviewed By/Date: _____

* 356503 used 2 filters. 11-18-19 Bmm

PREP WORKSHEET
on 12/03/2019

Prep Batch **74,587** Date Prepped: 11/19/2019 Prepped By NAH

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	359031	MBW		ICP QSM TCLP 5.0	LIQUID	50		50.0		
	359032	LCSW		ICP QSM TCLP 5.0	LIQUID	50		50.0		
149511	356218			ICP QSM TCLP 5.0	TCLP	50		50.0	4	
	359033	DUP	356218	ICP QSM TCLP 5.0	TCLP	50		50.0		
	359034	MSW	356218	ICP QSM TCLP 5.0	TCLP	50		50.0		
	359035	MSDW	359034	ICP QSM TCLP 5.0	TCLP	50		50.0		

Notes:_____

PREP WORKSHEET
on 12/03/2019

Prep Batch **74,586** Date Prepped: 11/21/2019 Prepped By BMM

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	359026	MBW		MERCURY QSM TCLP	LIQUID	25		25.0		
	359027	LCSW		MERCURY QSM TCLP	LIQUID	25		25.0		
149511	356218			MERCURY QSM TCLP	TCLP	25		25.0	4	
	359028	DUP	356218	MERCURY QSM TCLP	TCLP	25		25.0		
	359029	MSW	356218	MERCURY QSM TCLP	TCLP	25		25.0		
	359030	MSDW	359029	MERCURY QSM TCLP	TCLP	25		25.0		

Notes:_____

Metals Digestion Bench Sheet

Program: QSM
*Matrix: liquid

Prep Methods:
200.2= ICP/GFAA Liquids
3010= ICP Liquids
3020= GFAA Liquids
3005= Sb Liquids
3050= ICP/GFAA Solids
7060/7740= GFAA, As & Se Liquids

Prep Batch #:	74587
Prep Method:	200.2
Analyst:	NAH
Date:	11/18/2019
Start Time:	14:44

Prep Analyst: BMM
Balance ID:

End Date: 11/18/2019
End Time: 23:23

Reagent:	Ref. #
Nitric Acid:	AB.681
Hydrochloric Acid:	AB.682
Hydrogen Peroxide:	AB.678

Digestion Tube Lot #: 3334
Block Used: D2
Cell Position for Temp. Check: 60
Initial-DigestionTemp (ºC): 93
Final-Digestion Temp (ºC): 94

Sample ID			(Solids) Sample Weight (g)	(Liquids) Sample Volume (ml)	Final Volume (ml)
359031	(MB)			50.0	50
359032	(LCS)			50.0	50
356218				50.0	50
	Comments:				50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
					50
359033	(DUP)			50.0	50
359034	(MS)	Parent Sample		50.0	50
359035	(MSD)	356218		50.0	50
	(DUP)				50
	(MS)	Parent Sample			50
	(MSD)				50
Leave >>	(DUP) if applicable				50
blank	(MS)	Parent Sample			50
if N/A	(MSD)				50

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

MS/MSD Spike Amount (ml)	Spike Ref. #
0.2	M13903
0.5	m13811
0.5	m13961

LCS Spike Amount (ml)	Spike Ref. #
0.2	M13903
0.5	m13811
0.5	m13961

Reviewed By/Date:

12/03/201915:20

FMT12-03

Mercury Digestion Bench Sheet

(Prep Methods 7470A & 7471A)

CCV ID: M14048
ICV/LCSW ID: M14049

*Matrix: TCLP
Balance ID:

7470A= Hg Liquids
7471A= Hg Solids

Prep Batch #:	74586
Prep Method:	7470A
Analyst:	BMM
Date:	11/21/2019
Start Time:	10:02

End Date: 11/21/2019
End Time: 12:02
Digestion Tube Lot #: 4919103
Block Used: A
Cell Position for Temp. Check: F6
Initial-DigestionTemp (ºC): 92.4
Final-Digestion Temp (ºC): 92.6
Additional KMnO4 added (ml):
Aqua Regia added (ml)
Calibration Stds: M14047

Reagent:	Ref. #
HNO3:	AB.677
H2SO4:	AB.674
NaCl/Hydrox.SO4:	M13875
KMnO4:	M13873
K2S2O8:	M14020
Aqua-Regia:	

	Sample			(Solids) Sample Weight (g)	(Liquids) Sample Volume (ml)	Final Volume (ml)
	359026	(MB)			25.0	25
	359027	(LCS)			25.0	25
	356218				25.0	25
		Comments:				25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
						25
	359028	(DUP)			25.0	25
	359029	(MS)	Parent Sample		25.0	25
	359030	(MSD)	356218		25.0	25
Leave >>		(DUP)				25
blank		(MS)	Parent Sample			25
		(MSD)				25
		(DUP)				25
		(MS)	Parent Sample			25
if N/A		(MSD)				25

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

A: Spike Amount (ml)	Spike Conc. (ug/L)	Spike Ref. #
0.5	100ug/L	M14049

B: Spike Amount (ml)	Spike Conc. (ug/L)	Spike Ref. #

Reviewed By/Date:

iCAP 6000 / 6500 Data Review Checklist	Analysis Date: 11/20/19		Data File: [illegible]	Date of review: 12/2/19	
Cal Std ID: MT383[illegible] LIMS #: 166766	Analyst: [illegible]	Reviewer: MOS		Approved? Yes / No	

Is Audit Trail turned on or Manual Manipulations addressed? Yes / No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)

QC Parameters : 6010 / 200.7 / QSM / Other	YES	NO	YES	NO	Comments:
1) Calibration linearity: r > 0.995 / r > 0.998	✓		✓		
2) ICV: 90-110% / 95-105%	✓		✓		
2) ICVLL: 70-130% / 80-120%	✓		✓		
3) ICB: < 3X IDL / <LOD / <LOQ	✓		✓		
4) ICSA: < ABS LOD	✓		✓		
5) ICSAB: 80-120%	✓		✓		
6) MRL/LLOQ: 70-130% / 80-120%	✓		✓		
7) MDL Check: >LOD					
8) CCV1/CCB1 (CCV: 90-110%)	✓		✓		
9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ)					
10) CCV3/CCB3					
11) CCV4/CCB4					
12) CCV5/CCB5					
Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 74587 Dig. Meth. 200.2	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD or ≤ ½ RL	✓	✓	✓	✓	Ba >LOD <1/2RL "B" Sample ≥10x MS.
Spiked samples in batch:					
a) 356218 matrix = W	✓	✓		✓	As, Cd, Se, Ag
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD or ≤ ½ RL					
Spiked samples in batch:					
a)_____ matrix = _____					
b)_____ matrix = _____					
c)_____ matrix = _____					
PDS: ±15% / 20% / 25% Sample#:_____					FORM #: FMT9-01 Rev. #: 1.0

GFAA / FLAA / CVAA Data Review checklist		Method: 200.9	7000 series AA	245.1 & 245.2	245.7	7470a / 7471a
Instrumentation:	THERMO M SERIES AA		GETAC Hg ANALYZER			
Analysis Date: 11/22/19	Data File: 112219aw	Date Review: 11/25/19	**Analyte:** Hg			
Cal Std ID: M14047	LIMS # : 166905	Analyst: MW	Reviewer:	Approved? Yes	No	
Is Audit Trail turned on or Manual Manipulations addressed? Yes	No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)					

Calibration Parameters -	**YES**	**NO**	**YES**	**NO**	**Comments:**
1) Calibration linearity - r > 0.995	✓		✓		
2) ICV: 90-110% 95-105%	✓		✓		
2) ICVLL: 70-130% 80-120%					
3) ICB: <IDL / <LOD / <LOQ / <½ RL	✓		✓		
6) MRL: 70-130%					
7) CCV1/CCB1- (CCV: 90-110% / 80-120%)	✓		✓		
8) CCV2/CCB2 (CCB: <IDL / <LOD / <LOQ / <½ RL)					
9) CCV3/CCB3					
10) CCV4/CCB4					
11) CCV5/CCB5					

Preparation Batch Parameters	**YES**	**NO**	**YES**	**NO**	
Prep Batch ID#: 74586 Dig. Meth. 7470a	✓		✓		
LCS - generated limits or project specific limits	✓		✓		
MB - <LOD / <2.2X LOD / ≤ ½RL	✓		✓		
Spiked samples in batch:					
a) 356218 matrix = M	✓	✓	✓	✓	Dup invalid MSD Failed "M"
b)_____ matrix =					
c)_____ matrix =					
d)_____ matrix =					
e)_____ matrix =					
PDS: ±15% / 20% / 25% Sample#_____					
MSA Performed? Yes No					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a)_____ matrix =					
b)_____ matrix =					
c)_____ matrix =					
d)_____ matrix =					
e)_____ matrix =					
PDS: ±15% / 20% / 25% Sample#_____					
MSA Performed? Yes No					
Prep Batch ID#:_____ Dig. Meth._____					
LCS - generated limits or project specific limits					
MB - <LOD / <2.2X LOD / ≤ ½RL					
Spiked samples in batch:					
a)_____ matrix =					
b)_____ matrix =					
c)_____ matrix =					
d)_____ matrix =					
e)_____ matrix =					
PDS: ±15% / 20% / 25% Sample#_____					
MSA Performed? Yes No					

CT Laboratories, LLC

ICP-6500 Instrument Run Logbook

Date	Time: Start / End	Analyst	Analytes / Sequence I.D.	Method	LIMS # or Sample Description	Nebulizer Pressure (kpa)	Calib. Std ID	Version	Comments
10/29/19	1412 / 10/30 1652		10/29 19	DOD Cal U	166632, 166020, 166039, 166018, 166013, 45, 166061, 166015, 19, 166021, 166038	260	m13834 m13831	V3594 V3584	m13804 m13807 m13760 m13822 m13830
11/4/19	10:18 / 10/5 1230		110419 to	DOD Cal U	165793, 166151, 166234, 166131, 166179, 166124, 166219	260	m13831 m13661	V3595 V3589	m14024 m13834 m14023 m13832 m13951 m13833
11/5/19	1504 / 11/6 1519		110519	DOD Cal U	166220, 166228, 166226, 166235, 166230, 30, 166236, 166223, 166224, 166225, 166229, 166130	260	m13831 m13661	V3596 V3597	m14024 m13834 m14023 m13832 m13951 m13833
11/6/19	1529 / 11/7 1446		110619	DOD Cal U	166222, 166200, 166294, 166248, 166125, 166205, 166295, 166304, 166126, 166297, 166250, 166233, 51, 165914	260	m13831 m13661	V3600 V3595 V3599 V3589 V3580 V3601	m14024 m13834 m14023 m13832 m13951 m13833
11/7/19	1432 / 11/8 1736		110719	DOD Cal U	166395, 166296, 166300, 165920, 165814, 166337, 165919, 165918, 165921, 166335, 166304, 165816, 166342	260	m13831 m13661	V3602 V3604 V3601 V3607, 08	m14024 m13834 m14023 m13832 m13951 m13833
11/12/19	1115 / 11/13 1247		111219	DOD Cal U	166395, 166479, 166469, 166437, 166471, 166469, 166475, 166473, 166464, 166382	260	m13831 m13661	V3605 V3622 V3606 V3618	m14024 m13834 m14023 m13832 m13951 m13833
11/13/19	1426 / 0256		111319	DOD Cal U	166476, 166482, 166477, 166483, 166478	260	m13831 m13661	V3616 V3611 V3619 V3617	m14024 m13834 m14023 m13832 m13951 m13833
11/14/19 (11/21/19)	0934 / 11/21 1302		112019	DOD Cal U	166682, 166637, 166644, 46, 166648, 166656, 166639, 166645, 41, 166588, 166657, 166647, 166650, 166643, 166595, 166725, 166726, 166745, 166764	290	m13831 m13661 V3620	V3621 V3613	m14024 m13834 m14023 m13832 m13951
11/19/19	1416 / 11/22 1204		112119	DOD Cal U	166723, 166734, 166732, 166722, 166776, 166724, 166733, 166773	290	m13831 m13661	V3614 Database Full	m14024 m13834 m14023 m13832 m13951
11/22/19	11:22 / 20:18 NEW Data Base		112219	DOD Cal U	166823, 166828	290	m13831 m13661	V3614 NEW DaBase	m14024 m13834 m14023 m13832 m13951
11/23/19			112319	DOD Cal U		290	m13831 m13661	V3623 V3620 V3625	m14024 m13834 m14023 m13832 m13951
11/25/19	1348 / 1035		112519	DOD Cal U	166828, 166858, 166854, 166848, 166826, 166852, 166855, 166862, 166824, 166850, 166967	290	m13831 m13661		

Comments: _____

Checked By / Date: _____

CT Laboratories

Mercury Analyzer Instrument Run Log

Instrument ID: ~~Cetac M-6000A~~ Teledyne Hydra II
05/22/19 SF

Analysis Date	Start Time	End Time	Analyst	LIMS Run # (s)	Method File ID #	Cal. Std. ID #	Lamp Current (mA)	Analysis Tube Lot #	Comments
11/13/19	0854	1317	MDS	166515, 166514, 166507, 166560, 166561, 166513, 166559, 166511, 166510, 166512, 166506, 166505,	111319W	M14040	9.926	289548	$SnCl_2$: M14046
11/14/19	0951	1621	MDS	166487, 166488, 166491, 166597, 166489, 166485	1114195	M14040	9.856	289548	$SnCl_2$: M14046
11/15/19	0711	1034	MDS	166495, 166497, 166599, 166598, 166488, 166489	1115195	M14040	9.871	283178	$SnCl_2$: M14046
11/20/19	1110	1435	MDS	166801, 166800, 166798, 166799	1120195	M14047	9.875	283178	$SnCl_2$: M14058
11/22/19	0931	1112	MDS	166910, 166909, 166906, 166907	1122195W	M14047	—	283178	$SnCl_2$: M14058
11/23/19	~~0925~~ 1249	1805	MDS	166913, 166912, 166908, 166907, 166914, 166915, 166905, 166911	1122196W	M14047	—	283178	$SnCl_2$: M14058
12/3/19	0935	1413	MDS	167136, 167137, 167141, 167140, 167139, 167132, 167133, 167138, 167134, 167135	120319W	MM059	9.831	283178	$SnCl_2$: M14063

Reviewed By/Date:_____

Type	Date/Time	Message	User name	Application	Sequence Name
	11/19/2019 08:19:18	Running 353506 (116)	NAH	Analyst	S_DOD Calibration
	11/19/2019 08:25:43	Running msw353506 (117)	NAH	Analyst	S_DOD Calibration
	11/19/2019 08:31:53	Running 353507 (118)	NAH	Analyst	S_DOD Calibration
	11/19/2019 08:38:18	Running 356503 (119)	NAH	Analyst	S_DOD Calibration
	11/19/2019 08:45:04	Running 356519 (120)	NAH	Analyst	S_DOD Calibration
	11/19/2019 08:51:47	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration
	11/19/2019 08:57:38	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration
	11/19/2019 09:03:08	Running ccb (27)	NAH	Analyst	S_DOD Calibration
	11/19/2019 09:09:19	Running 356535 (121)	NAH	Analyst	S_DOD Calibration
	11/19/2019 09:16:04	Running 356537 (122)	NAH	Analyst	S_DOD Calibration
	11/19/2019 09:22:37	Running 356539 (123)	NAH	Analyst	S_DOD Calibration
	11/19/2019 09:29:03	Running 356541 (124)	NAH	Analyst	S_DOD Calibration
	11/19/2019 09:35:39	Running 357316 (125)	NAH	Analyst	S_DOD Calibration
	11/19/2019 09:42:04	Running MRL/LLOQ (25)	NAH	Analyst	S_DOD Calibration
	11/19/2019 09:47:56	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration
	11/19/2019 09:53:49	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration
	11/19/2019 09:59:16	Running ccb (30)	NAH	Analyst	S_DOD Calibration
	11/19/2019 10:05:07	Autosampler Run Completed	NAH	Analyst	S_DOD Calibration
	11/19/2019 13:34:35	Plasma off	NAH	iTEVA Control Center	
	11/19/2019 13:34:35	Plasma extinguished successfully	NAH	Analyst	
	11/20/2019 07:53:01	Plasma On	NAH	iTEVA Control Center	
	11/20/2019 07:53:07	Plasma ignition successful	NAH	Analyst	
	11/20/2019 07:54:27	D33534 - Debug:Wavelength check : x = 0.775, y =-0.415	NAH	Analyst	
	11/20/2019 09:34:23	Sequence Started	NAH	Analyst	S_DOD Calibration
	11/20/2019 09:34:23	Autosampler Run Started	NAH	Analyst	
	11/20/2019 09:34:57	Running Blank (1)	NAH	Analyst	S_DOD Calibration
	11/20/2019 09:41:41	Running CalStd2=0.5 (2)	NAH	Analyst	S_DOD Calibration
	11/20/2019 09:48:24	Running CalStd3=1 (3)	NAH	Analyst	S_DOD Calibration
	11/20/2019 09:54:40	Running CalStd4=5 (4)	NAH	Analyst	S_DOD Calibration
	11/20/2019 10:00:56	Running CalStd5=10 (5)	NAH	Analyst	S_DOD Calibration
	11/20/2019 10:07:11	Running CalStd6=20 (6)	NAH	Analyst	S_DOD Calibration
	11/20/2019 10:13:22	Running CalStd7=50 (7)	NAH	Analyst	S_DOD Calibration
	11/20/2019 10:19:33	Running CalStd8=100 (8)	NAH	Analyst	S_DOD Calibration
	11/20/2019 10:25:45	Running CalStd9=1000 (9)	NAH	Analyst	S_DOD Calibration
	11/20/2019 10:31:19	Running CalStd10=10000 (10)	NAH	Analyst	S_DOD Calibration
	11/20/2019 10:38:01	Running CalStd12=100K (11)	NAH	Analyst	S_DOD Calibration
	11/20/2019 10:44:39	Running CalStd13=100000 (12)	NAH	Analyst	S_DOD Calibration
	11/20/2019 10:50:35	Running CalStd14=500000 (13)	NAH	Analyst	S_DOD Calibration
	11/20/2019 10:57:38	Running CalibStd15=1000k (14)	NAH	Analyst	S_DOD Calibration
	11/20/2019 11:05:33	Running Ag Ba 1000, 50000 (15)	NAH	Analyst	S_DOD Calibration
	11/20/2019 11:12:19	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration
	11/20/2019 11:18:29	Running icv (16)	NAH	Analyst	S_DOD Calibration
	11/20/2019 11:24:42	Running icv (16)	NAH	Analyst	S_DOD Calibration
	11/20/2019 11:30:55	Running ICVLL (24)	NAH	Analyst	S_DOD Calibration
	11/20/2019 11:37:01	Running icb (17)	NAH	Analyst	S_DOD Calibration
	11/20/2019 11:43:14	Running icb (17)	NAH	Analyst	S_DOD Calibration
	11/20/2019 11:49:28	Running MRL/LLOQ (25)	NAH	Analyst	S_DOD Calibration
	11/20/2019 11:55:38	Running ICSA (20)	NAH	Analyst	S_DOD Calibration
	11/20/2019 12:02:38	Running ICSAB (21)	NAH	Analyst	S_DOD Calibration
	11/20/2019 12:09:18	Running blkrinse (22)	NAH	Analyst	S_DOD Calibration
	11/20/2019 12:15:28	Running ICVLL ag (1)	NAH	Analyst	S_DOD Calibration
	11/20/2019 12:21:45	Running lcsw74523 26 (2)	NAH	Analyst	S_DOD Calibration

Type	Date/Time	Message	User name	Application	Sequence Name
	11/20/2019 12:28:03	Running mbw 74523 26 (3)	NAH	Analyst	S_DOD Calibration
	11/20/2019 12:34:16	Running 358081 (4)	NAH	Analyst	S_DOD Calibration
	11/20/2019 12:34:44	Closing will close the method and all associated samples.	NAH	Analyst	
	11/20/2019 12:39:19	Closing will close the method and all associated samples.	NAH	Analyst	
	11/20/2019 12:41:23	Running l358081 (5)	NAH	Analyst	S_DOD Calibration
	11/20/2019 12:48:04	Running dup358081 (6)	NAH	Analyst	S_DOD Calibration
	11/20/2019 12:55:21	Running msw358081 (7)	NAH	Analyst	S_DOD Calibration
	11/20/2019 13:01:50	Running msdw358081 (8)	NAH	Analyst	S_DOD Calibration
	11/20/2019 13:08:17	Running pdsw358081 (9)	NAH	Analyst	S_DOD Calibration
	11/20/2019 13:14:42	Running 358085 (10)	NAH	Analyst	S_DOD Calibration
	11/20/2019 13:21:15	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration
	11/20/2019 13:27:29	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration
	11/20/2019 13:33:14	Running ccb (19)	NAH	Analyst	S_DOD Calibration
	11/20/2019 13:39:28	Running 358087 (11)	NAH	Analyst	S_DOD Calibration
	11/20/2019 13:46:03	Running 358089 (12)	NAH	Analyst	S_DOD Calibration
	11/20/2019 13:52:36	Running 358091 (13)	NAH	Analyst	S_DOD Calibration
	11/20/2019 13:59:20	Running 358093 (14)	NAH	Analyst	S_DOD Calibration
	11/20/2019 14:05:28	Closing will close the method and all associated samples.	NAH	Analyst	
	11/20/2019 14:05:34	Running lcsw74491 (15)	NAH	Analyst	S_DOD Calibration
	11/20/2019 14:11:53	Running mbw74491 (16)	NAH	Analyst	S_DOD Calibration
	11/20/2019 14:18:06	Running 357029 (17)	NAH	Analyst	S_DOD Calibration
	11/20/2019 14:24:29	Running 357030 (18)	NAH	Analyst	S_DOD Calibration
	11/20/2019 14:31:08	Running 357031 (19)	NAH	Analyst	S_DOD Calibration
	11/20/2019 14:35:15	Closing will close the method and all associated samples.	NAH	Analyst	
	11/20/2019 14:37:46	Running 357032 (20)	NAH	Analyst	S_DOD Calibration
	11/20/2019 14:44:06	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration
	11/20/2019 14:50:18	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration
	11/20/2019 14:56:02	Running ccb (19)	NAH	Analyst	S_DOD Calibration
	11/20/2019 15:02:15	Running l357032 (21)	NAH	Analyst	S_DOD Calibration
	11/20/2019 15:08:26	Running dup357032 (22)	NAH	Analyst	S_DOD Calibration
	11/20/2019 15:14:44	Running msw357032 (23)	NAH	Analyst	S_DOD Calibration
	11/20/2019 15:21:01	Running msdw357032 (24)	NAH	Analyst	S_DOD Calibration
	11/20/2019 15:27:19	Running pdsw357032 (25)	NAH	Analyst	S_DOD Calibration
	11/20/2019 15:33:43	Running 357033 (26)	NAH	Analyst	S_DOD Calibration
	11/20/2019 15:40:04	Running 357034 (27)	NAH	Analyst	S_DOD Calibration
	11/20/2019 15:46:45	Running 357035 (28)	NAH	Analyst	S_DOD Calibration
	11/20/2019 15:53:15	Running 357036 (29)	NAH	Analyst	S_DOD Calibration
	11/20/2019 15:59:47	Running 357037 (30)	NAH	Analyst	S_DOD Calibration
	11/20/2019 16:06:20	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration
	11/20/2019 16:12:31	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration
	11/20/2019 16:18:14	Running ccb (19)	NAH	Analyst	S_DOD Calibration
	11/20/2019 16:24:28	Running 357038 (31)	NAH	Analyst	S_DOD Calibration
	11/20/2019 16:31:02	Running 357041 (32)	NAH	Analyst	S_DOD Calibration
	11/20/2019 16:37:16	Running lcsw74524 (33)	NAH	Analyst	S_DOD Calibration
	11/20/2019 16:43:35	Running mbw74524 (34)	NAH	Analyst	S_DOD Calibration
	11/20/2019 16:49:49	Running 358082 (35)	NAH	Analyst	S_DOD Calibration
	11/20/2019 16:56:27	Running l358082 (36)	NAH	Analyst	S_DOD Calibration
	11/20/2019 17:03:12	Running dup358082 (37)	NAH	Analyst	S_DOD Calibration
	11/20/2019 17:09:50	Running msw358082 (38)	NAH	Analyst	S_DOD Calibration
	11/20/2019 17:16:17	Running msdw358082 (39)	NAH	Analyst	S_DOD Calibration
	11/20/2019 17:22:44	Running pdsw358082 (40)	NAH	Analyst	S_DOD Calibration
	11/20/2019 17:29:06	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration

Type	Date/Time	Message	User name	Application	Sequence Name
	11/20/2019 17:35:16	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration
	11/20/2019 17:40:59	Running ccb (19)	NAH	Analyst	S_DOD Calibration
	11/20/2019 17:47:14	Running 358086 (41)	NAH	Analyst	S_DOD Calibration
	11/20/2019 17:53:46	Running 358088 (42)	NAH	Analyst	S_DOD Calibration
	11/20/2019 18:00:15	Running 358090 (43)	NAH	Analyst	S_DOD Calibration
	11/20/2019 18:06:44	Running 358092 (44)	NAH	Analyst	S_DOD Calibration
	11/20/2019 18:13:27	Running 358094 (45)	NAH	Analyst	S_DOD Calibration
	11/20/2019 18:19:39	Running lcsw74512 (46)	NAH	Analyst	S_DOD Calibration
	11/20/2019 18:25:59	Running mbw74512 (47)	NAH	Analyst	S_DOD Calibration
	11/20/2019 18:32:14	Running 357860 (48)	NAH	Analyst	S_DOD Calibration
	11/20/2019 18:38:54	Running l357860 (49)	NAH	Analyst	S_DOD Calibration
	11/20/2019 18:45:05	Running dup357860 (50)	NAH	Analyst	S_DOD Calibration
	11/20/2019 18:51:44	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration
	11/20/2019 18:57:55	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration
	11/20/2019 19:03:39	Running ccb (19)	NAH	Analyst	S_DOD Calibration
	11/20/2019 19:09:54	Running msw357860 (51)	NAH	Analyst	S_DOD Calibration
	11/20/2019 19:16:11	Running msdw357860 (52)	NAH	Analyst	S_DOD Calibration
	11/20/2019 19:22:29	Running pdsw357860 (53)	NAH	Analyst	S_DOD Calibration
	11/20/2019 19:28:54	Running 357872 (54)	NAH	Analyst	S_DOD Calibration
	11/20/2019 19:35:34	Running lcsw74510 (55)	NAH	Analyst	S_DOD Calibration
	11/20/2019 19:41:54	Running mbw74510 (56)	NAH	Analyst	S_DOD Calibration
	11/20/2019 19:48:08	Running 357861 (57)	NAH	Analyst	S_DOD Calibration
	11/20/2019 19:54:47	Running l357861 (58)	NAH	Analyst	S_DOD Calibration
	11/20/2019 20:01:00	Running dup357861 (59)	NAH	Analyst	S_DOD Calibration
	11/20/2019 20:07:40	Running msw357861 (60)	NAH	Analyst	S_DOD Calibration
	11/20/2019 20:13:57	Running ccv1 (23)	NAH	Analyst	S_DOD Calibration
	11/20/2019 20:20:09	Running ccv2 (18)	NAH	Analyst	S_DOD Calibration
	11/20/2019 20:25:54	Running ccb (19)	NAH	Analyst	S_DOD Calibration
	11/20/2019 20:32:09	Running msdw357861 (61)	NAH	Analyst	S_DOD Calibration
	11/20/2019 20:38:27	Running pdsw357861 (62)	NAH	Analyst	S_DOD Calibration
	11/20/2019 20:44:52	Running 357873 (63)	NAH	Analyst	S_DOD Calibration
	11/20/2019 20:51:33	Running lcsw74525 (64)	NAH	Analyst	S_DOD Calibration
	11/20/2019 20:57:53	Running mbw74525 (65)	NAH	Analyst	S_DOD Calibration
	11/20/2019 21:04:07	Running 358011 (66)	NAH	Analyst	S_DOD Calibration
	11/20/2019 21:10:38	Running l358011 (67)	NAH	Analyst	S_DOD Calibration
	11/20/2019 21:17:11	Running dup358011 (68)	NAH	Analyst	S_DOD Calibration
	11/20/2019 21:23:42	Running msw358011 (69)	NAH	Analyst	S_DOD Calibration
	11/20/2019 21:29:57	Running msdw358011 (70)	NAH	Analyst	S_DOD Calibration
	11/20/2019 21:36:12	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration
	11/20/2019 21:42:26	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration
	11/20/2019 21:48:11	Running ccb (27)	NAH	Analyst	S_DOD Calibration
	11/20/2019 21:54:26	Running pdsw358011 (71)	NAH	Analyst	S_DOD Calibration
	11/20/2019 22:00:51	Running 358012 (72)	NAH	Analyst	S_DOD Calibration
	11/20/2019 22:07:24	Running 358013 (73)	NAH	Analyst	S_DOD Calibration
	11/20/2019 22:13:45	Running 358014 (74)	NAH	Analyst	S_DOD Calibration
	11/20/2019 22:20:23	Running 358015 (75)	NAH	Analyst	S_DOD Calibration
	11/20/2019 22:26:43	Running 358016 (76)	NAH	Analyst	S_DOD Calibration
	11/20/2019 22:33:20	Running 358019 (77)	NAH	Analyst	S_DOD Calibration
	11/20/2019 22:39:36	Running 358022 (78)	NAH	Analyst	S_DOD Calibration
	11/20/2019 22:46:13	Running lcsw74522 08 (79)	NAH	Analyst	S_DOD Calibration
	11/20/2019 22:52:33	Running mbw74522 08 (80)	NAH	Analyst	S_DOD Calibration
	11/20/2019 22:58:49	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration

Type	Date/Time	Message	User name	Application	Sequence Name
	11/20/2019 23:05:03	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration
	11/20/2019 23:10:48	Running ccb (27)	NAH	Analyst	S_DOD Calibration
	11/20/2019 23:17:04	Running 357715 (81)	NAH	Analyst	S_DOD Calibration
	11/20/2019 23:23:54	Running 358102 (82)	NAH	Analyst	S_DOD Calibration
	11/20/2019 23:30:39	Running msw358102 (83)	NAH	Analyst	S_DOD Calibration
	11/20/2019 23:37:05	Running msdw358102 (84)	NAH	Analyst	S_DOD Calibration
	11/20/2019 23:43:31	Running pdsw358102 (85)	NAH	Analyst	S_DOD Calibration
	11/20/2019 23:49:54	Running 357351 (86)	NAH	Analyst	S_DOD Calibration
	11/20/2019 23:56:40	Running msw357351 (87)	NAH	Analyst	S_DOD Calibration
	11/21/2019 00:03:31	Running msdw357351 (88)	NAH	Analyst	S_DOD Calibration
	11/21/2019 00:10:22	Running pdsw357351 (89)	NAH	Analyst	S_DOD Calibration
	11/21/2019 00:16:59	Running lcsw74520 (90)	NAH	Analyst	S_DOD Calibration
	11/21/2019 00:23:19	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration
	11/21/2019 00:29:32	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration
	11/21/2019 00:35:17	Running ccb (27)	NAH	Analyst	S_DOD Calibration
	11/21/2019 00:41:33	Running mbw74520 (91)	NAH	Analyst	S_DOD Calibration
	11/21/2019 00:47:49	Running 358065 (92)	NAH	Analyst	S_DOD Calibration
	11/21/2019 00:54:03	Running msw358065 (93)	NAH	Analyst	S_DOD Calibration
	11/21/2019 01:00:26	Running msdw358065 (94)	NAH	Analyst	S_DOD Calibration
	11/21/2019 01:06:51	Running pdsw358065 (95)	NAH	Analyst	S_DOD Calibration
	11/21/2019 01:13:16	Running 358267 (96)	NAH	Analyst	S_DOD Calibration
	11/21/2019 01:19:38	Running 358269 (97)	NAH	Analyst	S_DOD Calibration
	11/21/2019 01:26:01	Running lcss74492 (98)	NAH	Analyst	S_DOD Calibration
	11/21/2019 01:31:58	Running mbs74492 (99)	NAH	Analyst	S_DOD Calibration
	11/21/2019 01:38:15	Running 357025 (100)	NAH	Analyst	S_DOD Calibration
	11/21/2019 01:44:40	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration
	11/21/2019 01:50:53	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration
	11/21/2019 01:56:37	Running ccb (27)	NAH	Analyst	S_DOD Calibration
	11/21/2019 02:02:53	Running mss357025 (101)	NAH	Analyst	S_DOD Calibration
	11/21/2019 02:08:45	Running msds357025 (102)	NAH	Analyst	S_DOD Calibration
	11/21/2019 02:14:37	Running 357487 (104)	NAH	Analyst	S_DOD Calibration
	11/21/2019 02:21:06	Running 357489 (103)	NAH	Analyst	S_DOD Calibration
	11/21/2019 02:27:26	Running 357311 (105)	NAH	Analyst	S_DOD Calibration
	11/21/2019 02:33:53	Running 357463 (106)	NAH	Analyst	S_DOD Calibration
	11/21/2019 02:40:26	Running 358279 (107)	NAH	Analyst	S_DOD Calibration
	11/21/2019 02:46:38	Running msw358279 (108)	NAH	Analyst	S_DOD Calibration
	11/21/2019 02:53:00	Running msdw358279 (109)	NAH	Analyst	S_DOD Calibration
	11/21/2019 02:59:23	Running 358623 (110)	NAH	Analyst	S_DOD Calibration
	11/21/2019 03:06:03	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration
	11/21/2019 03:12:16	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration
	11/21/2019 03:18:01	Running ccb (27)	NAH	Analyst	S_DOD Calibration
	11/21/2019 03:24:22	Running 358625 (111)	NAH	Analyst	S_DOD Calibration
	11/21/2019 03:31:05	Running lcswtclp (112)	NAH	Analyst	S_DOD Calibration
	11/21/2019 03:37:32	Running mbwtclp (113)	NAH	Analyst	S_DOD Calibration
	11/21/2019 03:43:47	Running 353506 (114)	NAH	Analyst	S_DOD Calibration
	11/21/2019 03:50:35	Running msw353506 (115)	NAH	Analyst	S_DOD Calibration
	11/21/2019 03:57:06	Running 353507 (116)	NAH	Analyst	S_DOD Calibration
	11/21/2019 04:03:54	Running 356503 (117)	NAH	Analyst	S_DOD Calibration
	11/21/2019 04:11:01	Running 356519 (118)	NAH	Analyst	S_DOD Calibration
	11/21/2019 04:18:07	Running 356535 (119)	NAH	Analyst	S_DOD Calibration
	11/21/2019 04:25:09	Running 356537 (120)	NAH	Analyst	S_DOD Calibration
	11/21/2019 04:32:04	Running ccv1 (28)	NAH	Analyst	S_DOD Calibration

Type	Date/Time	Message	User name	Application	Sequence Name
	11/21/2019 04:38:16	Running ccv2 (26)	NAH	Analyst	S_DOD Calibration
	11/21/2019 04:44:03	Running ccb (27)	NAH	Analyst	S_DOD Calibration
	11/21/2019 04:50:19	Running 356539 (121)	NAH	Analyst	S_DOD Calibration
	11/21/2019 04:57:06	Running 356541 (122)	NAH	Analyst	S_DOD Calibration
	11/21/2019 05:04:01	Running 357316 (123)	NAH	Analyst	S_DOD Calibration
	11/21/2019 05:10:50	Running astm lcsw (124)	NAH	Analyst	S_DOD Calibration
	11/21/2019 05:17:16	Running astm mbw (125)	NAH	Analyst	S_DOD Calibration
	11/21/2019 05:23:34	Running 350242 (126)	NAH	Analyst	S_DOD Calibration
	11/21/2019 05:30:06	Running msw350242 (127)	NAH	Analyst	S_DOD Calibration
	11/21/2019 05:36:43	Running 350244 (128)	NAH	Analyst	S_DOD Calibration
	11/21/2019 05:43:19	Running 350246 (129)	NAH	Analyst	S_DOD Calibration
	11/21/2019 05:49:55	Running 350248 (130)	NAH	Analyst	S_DOD Calibration
	11/21/2019 05:56:21	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration
	11/21/2019 06:02:36	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration
	11/21/2019 06:08:24	Running ccb (30)	NAH	Analyst	S_DOD Calibration
	11/21/2019 06:14:41	Running 350259 (131)	NAH	Analyst	S_DOD Calibration
	11/21/2019 06:21:13	Running lcsw74555 (132)	NAH	Analyst	S_DOD Calibration
	11/21/2019 06:27:35	Running mbw74555 (133)	NAH	Analyst	S_DOD Calibration
	11/21/2019 06:33:53	Running 358491 (134)	NAH	Analyst	S_DOD Calibration
	11/21/2019 06:40:36	Running l358491 (135)	NAH	Analyst	S_DOD Calibration
	11/21/2019 06:47:12	Running dup358491 (136)	NAH	Analyst	S_DOD Calibration
	11/21/2019 06:53:54	Running msw358491 (137)	NAH	Analyst	S_DOD Calibration
	11/21/2019 07:00:14	Running msdw358491 (138)	NAH	Analyst	S_DOD Calibration
	11/21/2019 07:06:35	Running pdsw358491 (139)	NAH	Analyst	S_DOD Calibration
	11/21/2019 07:13:05	Running lcsw74587 (140)	NAH	Analyst	S_DOD Calibration
	11/21/2019 07:19:36	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration
	11/21/2019 07:25:52	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration
	11/21/2019 07:31:40	Running ccb (30)	NAH	Analyst	S_DOD Calibration
	11/21/2019 07:37:59	Running mbw74587 (141)	NAH	Analyst	S_DOD Calibration
	11/21/2019 07:44:17	Running 356218 (142)	NAH	Analyst	S_DOD Calibration
	11/21/2019 07:51:22	Running l356218 (143)	NAH	Analyst	S_DOD Calibration
	11/21/2019 07:58:32	Running dup356218 (144)	NAH	Analyst	S_DOD Calibration
	11/21/2019 08:05:36	Running msw356218 (145)	NAH	Analyst	S_DOD Calibration
	11/21/2019 08:12:18	Running msdw356218 (146)	NAH	Analyst	S_DOD Calibration
	11/21/2019 08:18:58	Running pdsw356218 (147)	NAH	Analyst	S_DOD Calibration
	11/21/2019 08:25:29	Running lcsw74588 (148)	NAH	Analyst	S_DOD Calibration
	11/21/2019 08:32:00	Running mbw74588 (149)	NAH	Analyst	S_DOD Calibration
	11/21/2019 08:38:19	Running 356624 (150)	NAH	Analyst	S_DOD Calibration
	11/21/2019 08:45:24	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration
	11/21/2019 08:51:40	Running ccv2 (29)	NAH	Analyst	S_DOD Calibration
	11/21/2019 08:57:27	Running ccb (30)	NAH	Analyst	S_DOD Calibration
	11/21/2019 09:03:45	Running 356626 (151)	NAH	Analyst	S_DOD Calibration
	11/21/2019 09:10:51	Running l356626 (152)	NAH	Analyst	S_DOD Calibration
	11/21/2019 09:17:51	Running dup356626 (153)	NAH	Analyst	S_DOD Calibration
	11/21/2019 09:24:57	Running msw356626 (154)	NAH	Analyst	S_DOD Calibration
	11/21/2019 09:31:39	Running msdw356626 (155)	NAH	Analyst	S_DOD Calibration
	11/21/2019 09:38:20	Running pdsw356626 (156)	NAH	Analyst	S_DOD Calibration
	11/21/2019 09:44:52	Running lcsw74599 (157)	NAH	Analyst	S_DOD Calibration
	11/21/2019 09:51:23	Running mbw74599 (158)	NAH	Analyst	S_DOD Calibration
	11/21/2019 09:57:42	Running 359180 (159)	NAH	Analyst	S_DOD Calibration
	11/21/2019 10:04:25	Running msw359180 (160)	NAH	Analyst	S_DOD Calibration
	11/21/2019 10:11:07	Running ccv1 (31)	NAH	Analyst	S_DOD Calibration

		Instrument:	CETAC
Standard Log #:	M14063	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	12/03/2019	Expiration Date:	01/03/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.682 and dissolved **100 g** Stannous chloride M14016 and brought up to volume.		

		Instrument:	HydraII
Standard Log #:	M14061	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	12/02/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

Standard ID#:	M14062	Vendor:	ENVIROMENTAL EXPRESS
Analyst:	BMM	Chemical:	Acid Washed TCLP Filters
Date Received:	12/02/2019	Lot #:	400168-9305-CM
Expiration Date (if any):		Catalog #:	

		Instrument:	CETAC
Standard Log #:	M14058	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	11/20/2019	Expiration Date:	12/20/2019
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M14017 and brought up to volume.		

		Instrument:	HydraII
Standard Log #:	M14059	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	12/02/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M14060	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	12/02/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

Standard Log #:	M14056	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	11/26/2019	Expiration Date:	11/26/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.684 and **128.6 mL** 10N NaOH M14002. Dilute to 20 L and mix.		

Standard Log #:	M14057	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	11/26/2019	Expiration Date:	11/26/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.684 and **128.6 mL** 10N NaOH M14002. Dilute to 20 L and mix.		

Standard ID#:	M14054	Vendor:	Spex Certi Prep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	11/20/2019	Lot #:	53-042CR
Expiration Date (if any):	11/30/2020	Catalog #:	XCTWI-5-500

Standard ID#:	M14055	Vendor:	Spex Certi Prep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	11/20/2019	Lot #:	53-041CR
Expiration Date (if any):	11/30/2019	Catalog #:	XSPIKE-1-250

		Instrument:	GFAA
Standard Log #:	M14051	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	11/20/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M14052	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	11/20/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M14053	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	11/20/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	HydraII
Standard Log #:	M14048	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	11/19/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M14049	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	11/19/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	CETAC
Standard Log #:	M14050	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	11/19/2019	Expiration Date:	11/20/2019
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	CETAC
Standard Log #:	M14045	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	11/11/2019	Expiration Date:	05/11/2019
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.681 and dissolved **100 g** Stannous chloride M14017 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M14046	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	11/13/19	Expiration Date:	05/13/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.681 and dissolved **100 g** Stannous chloride M14017 and brought up to volume.		

		Instrument:	HydraII
Standard Log #:	M14047	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	11/19/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

Standard Log #:	M14044	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	11/13/2019	Expiration Date:	11/13/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.684 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix.		

		Instrument:	CETAC
Standard Log #:	M14041	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	11/09/2019	Expiration Date:	11/10/2019
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	CETAC
Standard Log #:	M14042	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	11/12/2019	Expiration Date:	11/13/2019
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

Standard Log #:	M14043	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	BMM		
Prep Date:	11/12/2019	Expiration Date:	04/12/2020
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13993 and **60 g** hydroxylamine sulfate M13874 and brought up to volume.		

		Instrument:	HydraII
Standard Log #:	M14038	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	11/07/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M14039	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	11/07/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M14040	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	11/07/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	ICP 6000
Standard Log #:	M14035	Standard:	L2 ICV
Analyst:	MDS	Concentrations:	1000 µg/L (Li, Sn, Sr, Ti, W)
Prep Date:	11/04/2019	Expiration Date:	02/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of the following and brought up to volume using milli-Q H_2O. (0.5% HNO_3, 0.5% HCl) Li (1000 µg/mL) M13577 Sn (1000 µg/mL) M14008 Sr (1000 µg/mL) M14007 Ti (1000 µg/mL) M14009 W (1000 µg/mL) MXXXXX		

		Instrument:	ICP 6000
Standard Log #:	M14036	Standard:	List 2 MRL/ICVLL Prep Solution
Analyst:	MDS	Concentrations:	5000 µg/L (W) 1000 µg/L (Li, Sn) 500 µg/L (Ti, Sr)
Prep Date:	11/04/2019	Expiration Date:	02/2020

Prep:

Analyte	MRL/ICVLL Conc. (µg/L)	Standard ID	Std. Conc. (µg/mL)	Volume (mL) Pipetted into 1 L	Expiration Date
Li	20/60	M13577	1000	1	02/2020
W	100/300	MXXXX	1000	5	XX/XXXX
Ti	10/30	M14009	1000	0.5	04/2021
Sr	10/30	M14007	1000	0.5	04/2021
Sn	20/60	M14008	1000	1	04/2021

Pipette **10 mL** into a 500 mL volumetric flask to create a working MRL std. or **1 mL** into a 50 mL digestion tube for a digested MRL standard. Pipette **30 mL** into 500 mL for a working ICVLL std. or **3 mL** into a 50 mL digestion tube for a digested ICVLL standard.

(0.5% HNO_3, 0.5% HCl)

		Instrument:	CETAC
Standard Log #:	M14037	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	11/04/2019	Expiration Date:	05/04/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13922 and brought up to volume.		

		Instrument:	ICP
Standard Log #:	M14033	Standard:	L2 ICAL
Analyst:	MDS	Concentrations:	1 (µg/L) 10 (µg/L) 100 (µg/L) 1000 (µg/L) 10,000 (µg/L)
Prep Date:	11/04/2019	Expiration Date:	05/30/2020
Prep:	Standard Conc. (ug/L)	Pipette the following:	
	1	**0.01 mL** of Custom Assurance Standard XCTWI-5-500 M13839 and **0.001 mL** W (1000 µg/mL) MXXXXX into 1L = *1 µg/L*	
	10	**0.10 mL** of Custom Assurance Standard XCTWI-5-500 M13839 and **0.01 mL** W (1000 µg/mL) MXXXXX into 1L = *10 µg/L*	
	100	**1 mL** of Custom Assurance Standard XCTWI-5-500 M13839 and **0.1 mL** W (1000 µg/mL) MXXXXX into 1L = *100 µg/L*	
	1000 (CCV)	**2 mL** of Custom Assurance Standard XCTWI-5-500 M13839 and **0.2 mL** W (1000 µg/mL) MXXXXX into 200mL = *1000 µg/L*	
	10000	**20 mL** of Custom Assurance Standard XCTWI-5-500 M13839 and **2 mL** W (1000 µg/mL) MXXXXX into 200mL = *10000 µg/L*	

		Instrument:	ICP 6000
Standard Log #:	M14034	Standard:	List 2 ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (Li, Sn, Sr, Ti, W)
Prep Date:	11/04/2019	Expiration Date:	02/28/2020
Prep:	Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13738, **6 mL** of Fe (10,000 mg/L) M13751, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M14008, **0.1 mL** of Sr (1000 µg/mL) M14007, **0.1 mL** of Ti (1000 µg/mL) M14009, and **0.1 mL** of W (1000 µg/mL) MXXXXX and brought up to volume using Milli-Q H_2O. (0.5% HNO_3, 0.5% HCl)		

		Instrument:	CETAC
Standard Log #:	M14032	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	10/31/2019	Expiration Date:	10/31/2020
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	ICP 6000
Standard Log #:	M14028	Standard:	B&Si ICAL
Analyst:	MDS	Concentrations:	50, 200, 1000, 2000 and 10,000 ug/L (B, Si)
Prep Date:	10/30/2019	Expiration Date:	10/2020
Prep:	Into five, 1 L volumetric flasks, pipetted the following from stock standards B (1000 mg/L) M13947 and Si (1000 mg/L) M13810 and brought up to volume using milli-Q H_2O. *50 ug/L std.* - **0.05 mL** of each *200 ug/L std.* - **0.2 mL** of each *1000 ug/L std.* -**1.0 mL** of each, also used for Continuing Calibration Verification *2000 ug/L std.* - **2.0 mL** of each *10,000 ug/L std.* -**10 mL** of each		

		Instrument:	ICP 6000
Standard Log #:	M14029	Standard:	B & Si ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (B,Si)
Prep Date:	10/30/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **10 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13738, **0.05 mL** of B (1000 µg/mL) M13947, **0.05 mL** of Si (1000 µg/mL) M13810 and **3 mL** of Fe (10,000 mg/L) M13751 and brought up to volume using Milli-Q H_2O.		

		Instrument:	ICP 6000
Standard Log #:	M14030	Standard:	B&Si ICV
Analyst:	MDS	Concentrations:	1000 ug/L (B, Si)
Prep Date:	10/30/2019	Expiration Date:	05/30/2020
Prep:	Into a 1 L volumetric flask, pipetted **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, **B**, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13839 and **1.0 mL** Si (1000 mg/L) M13981 and brought up to volume using milli-Q H_2O.		

Standard ID#:	M14031	Vendor:	Environmental Express
Analyst:	NAH	Chemical:	Acid Washed TCLP filters
Date Received:	10/31/2019	Lot #:	400165
Expiration Date (if any):		Catalog #:	FG77150MM

		Instrument:	HydraII
Standard Log #:	M14024	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	10/29/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M14025	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	10/29/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M14026	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	10/29/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	CETAC
Standard Log #:	M14027	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	10/30/2019	Expiration Date:	04/30/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13922 and brought up to volume.		

MRL BASE STD M14024 Analyst NAH

Prep Date 10/30/2019

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	Expiration Date
Ag	20	M13951	1000	1	02/2021
Al	400	M13690	10000	2	06/2020
Ba	10	M13949	1000	0.5	02/2021
Be	4	M13579	1000	0.2	02/2020
Cd	5	M13570	1000	0.25	01/2020
Co	10	M13575	1000	0.5	01/2020
Cr	10	M13617	10000	0.05	03/2020
Cu	10	M13618	10000	0.05	03/2020
Mg	500	M13752	10000	2.5	09/2020
Mn	10	M13616	10000	0.05	03/2020
Mo	10	M13860	1000	0.5	12/2020
Ni	10	M13569	1000	0.5	01/2020
Pb	10	M13615	10000	0.05	03/2020
Sb	20	M13950	1000	1	02/2021
V	10	M13578	1000	0.5	02/2020
Zn	10	M13610	10000	0.05	03/2020
K	1000	M14003	10000	5	04/2021
Na	1000	M13862	10000	5	12/2020
As	20	M13763	1000	1	12/2020
Ca	500	M13985	10000	2.5	04/2021
Fe	300	M13751	10000	1.5	09/2020
Se	20	M13948	1000	1	02/2021
Tl	20	M13583	1000	1	02/2020
Si	100	M13810	1000	5	10/2020
B	20	M13947	1000	1	02/2021
Li	20	M13577	1000	1	02/2020
W	50	Mxxxxxx	1000	2.5	xxxxxxxx
Ti	10	M14009	1000	0.5	04/2021
Sr	10	M14007	1000	0.5	03/2020
Sn	50	M14008	1000	2.5	04/2021
S	300	M13604	10000	1.5	03/2020

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

		Instrument:	CETAC
Standard Log #:	M14022	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	10/23/2019	Expiration Date:	04/23/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13922 and brought up to volume.		

		Instrument:	ICP 6500
Standard Log #:	M14023	Standard:	ICSA
Analyst:	NAH	Concentrations:	**500,000 ug/L** Al, Ca, Fe, Mg **10,000** V, Ce
Prep Date:	10/30/2019	Expiration Date:	02/2020
Prep:	Into a 500 mL volumetric flask, pipetted 50 **mL** Interference A std M13738 and 15 **mL** 10000 mg/L Fe M14004 5.0 **mL** 1000 mg/L V M13578 5.0 **mL** 1000 mg/L Ce M13859 and brought up to volume with milli-Q H_2O.		

Standard Log #:	M14020	Reagent:	Potassium Persulfate Solution
Analyst:	BMM		
Prep Date:	10/23/2019	Expiration Date:	04/23/2020
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium persulfate M13714 and brought up to volume.		

Standard Log #:	M14021	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	BMM		
Prep Date:	10/23/2019	Expiration Date:	04/23/2020
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13993 and **60 g** hydroxylamine sulfate M13874 and brought up to volume.		

Standard ID#:	M14016	Vendor:	LabChem
Analyst:	MDS	Chemical:	Stannous Chloride
Date Received:	10/23/2019	Lot #:	J267-10
Expiration Date (if any):		Catalog #:	LC251701

Standard ID#:	M14017	Vendor:	LabChem
Analyst:	MDS	Chemical:	Stannous Chloride
Date Received:	10/23/2019	Lot #:	J267-10
Expiration Date (if any):		Catalog #:	LC251701

		Instrument:	CETAC
Standard Log #:	M14018	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	10/23/2019	Expiration Date:	10/24/2019
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

Standard Log #:	M14019	Reagent:	Potassium Permanganate Solution
Analyst:	BMM		
Prep Date:	10/23/2019	Expiration Date:	04/23/2020
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13080 and brought up to volume.		

		Instrument:	HydraII
Standard Log #:	M14012	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	10/21/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M14013	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	10/21/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M14014	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	10/21/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

Standard Log #:	M14015	Instrument:	GFAA
Analyst:	MDS	Reagent:	Pd/Mg Matrix Modifier
Prep Date:	10/22/2019	Expiration Date:	09/30/2020
Prep:	Into a 50 mL volumetric flask, partially filled with milli-Q H_2O, pipetted **15 mL** Pd Modifier M13954 and **10 mL** Mg (10,000 mg/L) M13752 and brought up to volume.		

Standard Log #:	M14010	Reagent:	SPLP ACID MIX
Analyst:	BMM		60/40 H_2SO_4 - HNO_3
Prep Date:	10/21/2019	Expiration Date:	10/21/2020
Prep:	Into a 200 mL volumetric flask, partially filled with DI H_2O, add **12 g** H_2SO_4 AB.674 and **8 g** HNO_3 AB.677 and bring up to volume using DI H_2O.		

Standard Log #:	M14011	Reagent:	SPLP EXTRACTION FLUID EAST #
Analyst:	BMM	pH:	4.20 ± 0.05
Prep Date:	10/21/2019	Expiration Date:	10/21/2020
Prep:	Into a 20 L carboy filled with DI H_2O, adjust pH to 4.20 ± 0.05 using 60/40 HNO_3 - H_2SO_4 M14010.		

Standard ID#:	M14005	Vendor:	CPI
Analyst:	NAH	Chemical:	Y 10000 mg/L
Date Received:	10/17/2019	Lot #:	168189-30
Expiration Date (if any):	04/2021	Catalog #:	4400-110M671

Standard ID#:	M14006	Vendor:	CPI
Analyst:	NAH	Chemical:	Si 1000 mg/L
Date Received:	10/17/2019	Lot #:	1004985-62
Expiration Date (if any):	04/2021	Catalog #:	S4400-1000504F

Standard ID#:	M14007	Vendor:	CPI
Analyst:	NAH	Chemical:	Sr 1000 mg/L
Date Received:	10/17/2019	Lot #:	168227-95
Expiration Date (if any):	04/2021	Catalog #:	S4400-1000531

Standard ID#:	M14008	Vendor:	CPI
Analyst:	NAH	Chemical:	Sn 1000 mg/L
Date Received:	10/17/2019	Lot #:	977645-2
Expiration Date (if any):	04/2021	Catalog #:	S4400-1000613

Standard ID#:	M14009	Vendor:	CPI
Analyst:	NAH	Chemical:	Ti 1000 mg/L
Date Received:	10/17/2019	Lot #:	987438-36
Expiration Date (if any):	04/2021	Catalog #:	S4400-1000623

		Instrument:	CETAC
Standard Log #:	M14000	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	10/16/2019	Expiration Date:	04/16/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13923 and brought up to volume.		

Standard ID#:	M14001	Vendor:	ThermoFisher
Analyst:	MDS	Chemical:	Nickel Nitrate Matrix Modifier
Date Received:	10/17/2019	Lot #:	9192422
Expiration Date (if any):	04/30/2021	Catalog #:	39043

Standard Log #:	M14002	Reagent:	10N NaOH
Analyst:	BMM		
Prep Date:	10/17/2019	Expiration Date:	10/17/2020
Prep:	Into a 1 L volumetric flask, added **400 g** NaOH W47366 and brought up to volume.		

Standard ID#:	M14003	Vendor:	CPI
Analyst:	NAH	Chemical:	K 10000 mg/L
Date Received:	10/17/2019	Lot #:	980507-31
Expiration Date (if any):	04/2021	Catalog #:	4400-10M411

Standard ID#:	M14004	Vendor:	CPI
Analyst:	NAH	Chemical:	Fe 10000 mg/L
Date Received:	10/17/2019	Lot #:	998527-45
Expiration Date (if any):	04/2021	Catalog #:	4400-10M261

		Instrument:	GFAA
Standard Log #:	M13997	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	10/16/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13998	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	10/16/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13999	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	10/16/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

Standard ID#:	M13993	Vendor:	Thermo fisher Scientific
Analyst:	NAH	Chemical:	Sodium Chloride
Date Received:	10/15/2019	Lot #:	193463
Expiration Date (if any):	06/2024	Catalog #:	S271-500

Standard ID#:	M13994	Vendor:	Thermo Fisher Scientific
Analyst:	NAH	Chemical:	Hydroxylamine Sulfate
Date Received:	10/15/2019	Lot #:	189407
Expiration Date (if any):	05/2024	Catalog #:	H331-500

		Instrument:	CETAC
Standard Log #:	M13995	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	10/15/2019	Expiration Date:	10/16/2019
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

Standard Log #:	M13996	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	10/16/2019	Expiration Date:	10/16/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix.		

		Instrument:	ICP 6000
Standard Log #:	M13992	Standard:	List 2 ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (Li, Sn, Sr, Ti, W)
Prep Date:	10/15/2019	Expiration Date:	01/2020
Prep:	Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13738, **6 mL** of Fe (10,000 mg/L) M13751, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M13572, **0.1 mL** of Sr (1000 µg/mL) M13580, **0.1 mL** of Ti (1000 µg/mL) M13573, and **0.1 mL** of W (1000 µg/mL) MXXXXX and brought up to volume using Milli-Q H_2O. (0.5% HNO_3, 0.5% HCl)		

		Instrument:	ICP 6000
Standard Log #:	M13989	Standard:	Sulfur ICAL
Analyst:	MDS	Concentrations:	1000 10,000 100,000 1000K µg/L (S)
Prep Date:	10/14/2019	Expiration Date:	06/2020
Prep:	Into four, 100 mL volumetric flasks, pipetted the following from stock standard S (10,000 µg/mL) M13696 and brought up to volume using milli-Q H_2O. *1000 ug/L std.* - **0.01 mL** *10,000 ug/L std.* - **0.1 mL** *100,000 ug/L std.* -**1.0 mL**, also used as the CCV *1000K ug/L std.* - **10 mL**		

		Instrument:	ICP 6000
Standard Log #:	M13990	Standard:	Sulfur ICV
Analyst:	MDS	Concentrations:	100,000 µg/L (S)
Prep Date:	10/14/2019	Expiration Date:	03/2020
Prep:	Into a 100 mL volumetric flask, pipetted **1.0 mL** of S (10,000 µg/mL) M13604 and brought up to volume using Milli-Q H_2O.		

		Instrument:	ICP 6000
Standard Log #:	M13991	Standard:	B & Si ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (B,Si)
Prep Date:	10/14/2019	Expiration Date:	12/2019
Prep:	Into a 100 mL volumetric flask, pipetted **10 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13738, **0.05 mL** of B (1000 µg/mL) M13531, **0.05 mL** of Si (1000 µg/mL) M13861 and **3 mL** of Fe (10,000 mg/L) M13751 and brought up to volume using Milli-Q H_2O.		

		Instrument:	HydraII
Standard Log #:	M13986	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	10/15/2019	Expiration Date:	04/15/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M13987	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	10/15/2019	Expiration Date:	04/15/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M13988	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	10/15/2019	Expiration Date:	04/15/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

Standard ID#:	M13982	Vendor:	CPI
Analyst:	NAH	Chemical:	Aluminum 10000 mg/L
Date Received:	10/09/2019	Lot #:	992536-16
Expiration Date (if any):	04/2021	Catalog #:	4400-10M11

Standard ID#:	M13983	Vendor:	CPI
Analyst:	NAH	Chemical:	Fe 10000 mg/L
Date Received:	10/09/2019	Lot #:	998527-45
Expiration Date (if any):	04/2021	Catalog #:	4400-10M261

Standard ID#:	M13984	Vendor:	CPI
Analyst:	NAH	Chemical:	Mg 10000 mg/L
Date Received:	10/09/2019	Lot #:	1013353-4
Expiration Date (if any):	04/2021	Catalog #:	4400-10M311

Standard ID#:	M13985	Vendor:	CPI
Analyst:	NAH	Chemical:	Ca 10000 mg/L
Date Received:	10/09/2019	Lot #:	855297-68
Expiration Date (if any):	04/2021	Catalog #:	4400-10M91

		Instrument:	CETAC
Standard Log #:	M13978	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	10/08/2019	Expiration Date:	04/08/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13923 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13979	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	10/09/2019	Expiration Date:	04/09/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13923 and brought up to volume.		

Standard ID#:	M13980	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Std
Date Received:	10/08/2019	Lot #:	52-248CR
Expiration Date (if any):	10/30/2020	Catalog #:	XSPIKE-1-250

Standard ID#:	M13981	Vendor:	CPI
Analyst:	NAH	Chemical:	Silicon 1000 mg/l
Date Received:	10/09/2019	Lot #:	1004985-62
Expiration Date (if any):	04/2021	Catalog #:	S4400-1000504F

		Instrument:	HydraII
Standard Log #:	M13976	Standard:	Hg ICV/LCS
Analyst:	MDS	Concentration:	3 ug/L
Prep Date:	10/07/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13975 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

		Instrument:	CETAC
Standard Log #:	M13977	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	10/07/2019	Expiration Date:	10/07/2020
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	HydraII
Standard Log #:	M13973	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	10/07/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M13974	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	10/07/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M13975	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	10/07/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	GFAA
Standard Log #:	M13970	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	10/07/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13971	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	10/07/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13972	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	10/07/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

Standard Log #:	M13969	Reagent:	1:3 HNO3
Analyst:	MDS		
Prep Date:	10/02/2019	Expiration Date:	10/02/2020
Prep:	Carefully mixed **3** parts DI with **1** part HNO_3 AB.681 in a hood.		

		Instrument:	HydraII
Standard Log #:	M13967	Standard:	Hg ICV/LCS
Analyst:	MDS	Concentration:	3 ug/L
Prep Date:	10/01/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13966 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

		Instrument:	CETAC
Standard Log #:	M13968	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	10/01/2019	Expiration Date:	10/01/2020
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	HydraII
Standard Log #:	M13964	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	10/01/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M13965	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	10/01/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M13966	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	10/01/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

Standard Log #:	M13963	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	09/30/2019	Expiration Date:	09/30/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix.		

Standard ID#:	M13961	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Std.
Date Received:	09/24/2019	Lot #:	7-093AB
Expiration Date (if any):	09/30/2020	Catalog #:	XCTWI-1-500

		Instrument:	CETAC
Standard Log #:	M13962	Reagent:	Stannous Chloride Solution
Analyst:	NAH		
Prep Date:	09/25/2019	Expiration Date:	09/25/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13923 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13960	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	09/19/2019	Expiration Date:	03/19/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.678 and dissolved **100 g** Stannous chloride M13889 and brought up to volume.		

		Instrument:	HydraII
Standard Log #:	M13958	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	09/17/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	HydraII
Standard Log #:	M13959	Standard:	Hg ICV/LCS
Analyst:	MDS	Concentration:	3 ug/L
Prep Date:	09/17/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13958 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

		Instrument:	CETAC
Standard Log #:	M13955	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	09/17/2019	Expiration Date:	09/17/2020
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	HydraII
Standard Log #:	M13956	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	09/17/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M13957	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	09/17/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

Standard Log #:	M13952	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	09/13/2019	Expiration Date:	09/13/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix.		

Standard Log #:	M13953	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	09/13/2019	Expiration Date:	09/13/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix.		

Standard ID#:	M13954	Vendor:	Environmental Expresss
Analyst:	MDS	Chemical:	1% Pd Matrix Modifier
Date Received:	09/13/2019	Lot #:	1925215
Expiration Date (if any):	09/30/2020	Catalog #:	HP1900-100

		Instrument:	CETAC
Standard Log #:	M13946	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	09/10/2019	Expiration Date:	03/10/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13889 and brought up to volume.		

Standard ID#:	M13947	Vendor:	CPI
Analyst:	NAH	Chemical:	Boron 1000 mg/lL
Date Received:	09/10/2019	Lot #:	982524-80
Expiration Date (if any):	02/2021	Catalog #:	S4400-100074

Standard ID#:	M13948	Vendor:	CPI
Analyst:	NAH	Chemical:	Selenium 1000 mg/L
Date Received:	09/10/2019	Lot #:	982461-61
Expiration Date (if any):	02/2021	Catalog #:	S4400-1000491

Standard ID#:	M13949	Vendor:	CPI
Analyst:	NAH	Chemical:	Barium 1000 mg/L
Date Received:	09/10/2019	Lot #:	994634-28
Expiration Date (if any):	02/2021	Catalog #:	S4400-100041

Standard ID#:	M13950	Vendor:	CPI
Analyst:	NAH	Chemical:	Antimony 1000 mg/L
Date Received:	09/10/2019	Lot #:	1013797-3
Expiration Date (if any):	02/2019	Catalog #:	S4400-100023

Standard ID#:	M13951	Vendor:	CPI
Analyst:	NAH	Chemical:	Silver 1000 mg/L
Date Received:	09/10/2019	Lot #:	975475-71
Expiration Date (if any):	02/2021	Catalog #:	S4400-1000511

		Instrument:	HydraII
Standard Log #:	M13944	Standard:	Hg ICV/LCS
Analyst:	MDS	Concentration:	3 ug/L
Prep Date:	09/09/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13943 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

		Instrument:	CETAC
Standard Log #:	M13945	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	09/09/2019	Expiration Date:	09/09/2020
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	HydraII
Standard Log #:	M13941	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	09/09/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M13942	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	09/09/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M13943	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	09/09/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	GFAA
Standard Log #:	M13938	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	09/09/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13939	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	09/09/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13940	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	09/09/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	ICP 6000
Standard Log #:	M13937	Standard:	NaK ICSAB
Analyst:	MDS	Concentrations:	500 mg/L (Al, Ca, Fe, Mg) 100 mg/L (Na, K)
Prep Date:	09/06/2019	Expiration Date:	02/28/2020
Prep:	Into a 250 mL volumetric flask, pipetted **25 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13738, **2.5 mL** of K (10,000 mg/L) M13755, **2.5 mL** of Na (10,000 mg/L) M13691 and **7.5 mL** of Fe (10,000 mg/L) M13695 and brought up to volume using Milli-Q H_2O. (2% HNO_3)		

		Instrument:	ICP 6000
Standard Log #:	M13933	Standard:	Na & K ICAL
Analyst:	MDS	Concentrations:	0.5, 1, 5, 10, 50, 100, and 200 mg/L (Na,K)
Prep Date:	09/06/2019	Expiration Date:	03/2020
Prep:	Into seven, 200 mL volumetric flasks, pipetted the following from Na (1000 µg/mL) M13607 and K (1000 µg/mL) M13606 and brought up to volume using milli-Q H_2O. (2% HNO_3) *0.5 mg/L std.* - **0.1 mL** of each *1.0 mg/L std.* - **0.2 mL** of each *5.0 mg/L std.* - **1.0 mL** of each *10 mg/L std.* - **2.0 mL** of each *50 mg/L std.* - **10 mL** of each *100 mg/L std.* -**20 mL** of each, also used for Continuing Calibration Verification *200 mg/L std.* - **40 mL** of each		

		Instrument:	ICP 6000
Standard Log #:	M13934	Standard:	Na,K MRL
Analyst:	MDS	Concentrations:	1 mg/L (Na,K)
Prep Date:	09/06/2019	Expiration Date:	03/2020
Prep:	Into a 500 mL volumetric flask, pipetted **0.5 mL** of Na (1000 µg/mL) M13607 and **0.5 mL** K (1000 µg/mL) M13606 and brought to volume with Milli-Q H_2O. (2% HNO_3)		

		Instrument:	ICP 6000
Standard Log #:	M13935	Standard:	NaK ICV
Analyst:	MDS	Concentrations:	100 mg/L (Na, K)
Prep Date:	09/06/2019	Expiration Date:	06/2020
Prep:	Into a 250 mL volumetric flask, pipetted **2.5 mL** of K (10,000 mg/L) M13755 and Na (10,000 mg/L) M13691 and brought up to volume using Milli-Q H_2O. (2% HNO_3)		

		Instrument:	ICP 6000
Standard Log #:	M13936	Standard:	Na,K ICVLL
Analyst:	MDS	Concentrations:	3 mg/L (Na,K)
Prep Date:	09/06/2019	Expiration Date:	06/2020
Prep:	Into a 500 mL volumetric flask, pipetted **0.15 mL** of Na (10,000 µg/mL) M13691 and **0.15 mL** K (10,000 µg/mL) M13755 and brought to volume with Milli-Q H_2O. (2% HNO_3)		

		Instrument:	HydraII
Standard Log #:	M13929	Standard:	Hg ICV/LCS
Analyst:	MDS	Concentration:	3 ug/L
Prep Date:	09/03/2019	Expiration Date:	03/03/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13928 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

		Instrument:	CETAC
Standard Log #:	M13930	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	09/03/2019	Expiration Date:	10/03/2019
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13889 and brought up to volume.		

Standard Log #:	M13931	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	09/03/2019	Expiration Date:	09/03/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix.		

Standard Log #:	M13932	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	09/03/2019	Expiration Date:	09/03/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix.		

		Instrument:	HydraII
Standard Log #:	M13926	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	09/03/2019	Expiration Date:	03/03/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M13927	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	09/03/2019	Expiration Date:	03/03/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M13928	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	09/03/2019	Expiration Date:	03/03/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

Standard ID#:	M13924	Vendor:	Environmental Express
Analyst:	NAH	Chemical:	Yttrium 10,000 mg/L
Date Received:	08/29/2019	Lot #:	1833905
Expiration Date (if any):	02/28/2021	Catalog #:	HP10M67-1

		Instrument:	HydraII
Standard Log #:	M13920	Standard:	Hg ICV/LCS
Analyst:	MDS	Concentration:	3 ug/L
Prep Date:	08/27/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13919 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

		Instrument:	CETAC
Standard Log #:	M13921	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	08/28/2019	Expiration Date:	09/28/2019
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13889 and brought up to volume.		

Standard ID#:	M13922	Vendor:	LabChem
Analyst:	MDS	Chemical:	Stannous Chloride Dihydrate
Date Received:	08/28/2019	Lot #:	J142-19
Expiration Date (if any):		Catalog #:	LC251701

Standard ID#:	M13923	Vendor:	LabChem
Analyst:	MDS	Chemical:	Stannous Chloride Dihydrate
Date Received:	08/28/2019	Lot #:	J142-19
Expiration Date (if any):		Catalog #:	LC251701

		Instrument:	HydraII
Standard Log #:	M13917	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	08/27/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M13918	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	08/27/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M13919	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	08/27/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	GFAA
Standard Log #:	M13916	Standard:	LODW/LOQW Ag Spiking Sol'n
Analyst:	MDS	Concentrations:	10 ug/L (Ag)
Prep Date:	08/26/2019	Expiration Date:	10/2019
Prep:	Into a 100 mL volumetric flask, pipetted **0.1 mL** of Ag (1000mg/L) M13458 and brought to volume with Milli-Q H_2O to make a 1000 ug/L Ag std. Into a 1 L volumetric flask, pipetted **10 mL** of Ag (*1000 ug/L*) std. and brought to volume with Milli-Q H_2O. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (*0.2 ug/L*) and **2 mL** spiking solution for LOQ (*0.4 ug/L*)		

		Instrument:	GFAA
Standard Log #:	M13914	Standard:	LODS/LOQS Spiking Sol'n
Analyst:	MDS	Concentrations:	60 ug/L (Sb) 160 ug/L (As,Se) 40 ug/L (Pb) 50 ug/L (Tl)
Prep Date:	08/26/2019	Expiration Date:	10/2019
Prep:	Into a 200 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. **1.2 mL** of Sb (1000 mg/L) M13459 **3.2 mL** of As (1000 mg/L) M13863 **3.2 mL** of Se (1000 mg/L) M13460 **0.08 mL** of Pb (10,000 mg/L) M13615 **1.0 mL** of Tl (1000 mg/L) M13583 From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q H_2O to make the spiking solution. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (1.2 *ug/L* Sb, *3.2 ug/L* As, *3.2 ug/L* Se, *0.8 ug/L* Pb, *1 ug/L* Tl) and **2 mL** spiking solution for LOQ (2.4 *ug/L* Sb, *6.4 ug/L* As, *6.4 ug/L* Se, *1.6 ug/L* Pb, *2 ug/L* Tl)		

		Instrument:	GFAA
Standard Log #:	M13915	Standard:	LODW/LOQW Spiking Sol'n
Analyst:	MDS	Concentrations:	150 ug/L (Sb) 100 ug/L (As) 200 ug/L (Se) 45 ug/L (Pb) 40 ug/L (Tl)
Prep Date:	08/26/2019	Expiration Date:	10/2019
Prep:	Into a 100 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. **1.5 mL** of Sb (1000 mg/L) M13459 **1.0 mL** of As (1000 mg/L) M13863 **2.0 mL** of Se (1000 mg/L) M13460 **0.045 mL** of Pb (10,000 mg/L) M13615 **0.4 mL** of Tl (1000 mg/L) M13583 From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q H_2O to make the spiking solution. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (*3 ug/L* Sb, *2 ug/L* As, *4 ug/L* Se, *0.9 ug/L* Pb, *0.8 ug/L* Tl) and **2 mL** spiking solution for LOQ (*6 ug/L* Sb, *4 ug/L* As, *8 ug/L* Se, *1.8 ug/L* Pb, *1.6 ug/L* Tl)		

Standard Log #:	M13913 (A)	Instrument:	ICP
Analyst:	NAH	Standard:	LOQ 3010 B&Si Spiking Solution
Prep Date:	08/26/2019	Expiration Date:	12/19/2019

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
B	16	M13531	1000	0.8
Si	200	M13861	1000	10

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard Log #:	M13913 combined with A	Instrument:	ICP
Analyst:	NAH	Standard:	LOQ 3010 S Spiking Solution
Prep Date:	08/26/2019	Expiration Date:	06/20/2019

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
S	200	M13696	10000	1.0

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

		Instrument:	CETAC
Standard Log #:	M13911	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	08/21/2019	Expiration Date:	02/21/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13888 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13912	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	08/21/2019	Expiration Date:	08/21/2020
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	HydraII
Standard Log #:	M13909	Standard:	Hg ICV/LCS
Analyst:	MDS	Concentration:	3 ug/L
Prep Date:	08/20/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13908 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

		Instrument:	CETAC
Standard Log #:	M13910	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	08/20/2019	Expiration Date:	08/20/2020
Prep:	Carefully mixed **3** parts HCl AB.656 with **1** part HNO_3 AB.655 in a hood.		

		Instrument:	HydraII
Standard Log #:	M13906	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	08/20/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M13907	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	08/20/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M13908	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	08/20/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

Standard Log #:	M13904	Reagent:	Potassium Persulfate Solution
Analyst:	BMM		
Prep Date:	08/19/2019	Expiration Date:	08/19/2020
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium persulfate M13059 and brought up to volume.		

Standard Log #:	M13905	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	BMM		
Prep Date:	08/19/2019	Expiration Date:	08/19/2020
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13728 and **60 g** hydroxylamine sulfate M13727 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13902	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	08/15/2019	Expiration Date:	02/15/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13888 and brought up to volume.		

Standard ID#:	M13903	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	08/15/2019	Lot #:	52-161Cr
Expiration Date (if any):	8/30/2020	Catalog #:	XSPIKE-1-250

		Instrument:	CETAC
Standard Log #:	M13898	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	08/13/2019	Expiration Date:	08/13/2020
Prep:	Carefully mixed **3** parts HCl AB.656 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	HydraII
Standard Log #:	M13899	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	08/13/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	HydraII
Standard Log #:	M13900	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	08/13/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	HydraII
Standard Log #:	M13901	Standard:	Hg ICV/LCS
Analyst:	MDS	Concentration:	3 ug/L
Prep Date:	08/13/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13734 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

Standard Log #:	M13897	Standard:	GFAA Instrument Check
Analyst:	MDS	Final Concentration:	12 µg/L As 6 µg/L Pb 10 µg/L Sb 20 µg/L Se 10 µg/L Tl 0.6 µg/L Ag
Prep Date:	08/12/2019	Expiration Date:	10/2019

Into six, 100 mL volumetric flasks, add the following and bring up to volume with milli-Q H_2O.

Element	Volume Pipetted (mL)	Standard Conc. (µg/mL)	Standard ID	New Conc. (µg/L)
As	1	1000	M13863	10,000
Pb	0.1	10,000	M13615	10,000
Tl	1	1000	M13583	10,000
Se	1	1000	M13460	10,000
Sb	1	1000	M13459	10,000
Ag	0.1	1000	M13458	1000

Into a 1 L volumetric flask, add the following and bring up to volume with Milli-Q H_20. (1% HNO_3)

Element	Volume Pipetted (mL)	Standard Conc. (µg/L)	New Conc. (µg/L)
As	1.2	10,000	12
Pb	0.6	10,000	6
Tl	1.0	10,000	10
Se	2.0	10,000	20
Sb	1.0	10,000	10
Ag	0.6	1000	0.6

Standard Log #:	M13896	Reagent:	1:3 HNO3
Analyst:	MDS		
Prep Date:	08/09/2019	Expiration Date:	08/09/2020
Prep:	Carefully mixed **3** parts DI with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13895	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	08/06/2019	Expiration Date:	02/06/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13888 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13894	Standard:	Hg ICV/LCS
Analyst:	MDS	Concentration:	3 ug/L
Prep Date:	08/05/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13893 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

		Instrument:	CETAC
Standard Log #:	M13891	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	08/05/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	CETAC
Standard Log #:	M13892	Standard:	Hg CCV
Analyst:	MDS	Concentration:	3.0 ug/L Hg
Prep Date:	08/05/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	CETAC
Standard Log #:	M13893	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	08/05/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	CETAC
Standard Log #:	M13890	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	07/29/2019	Expiration Date:	01/29/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13888 and brought up to volume.		

Standard ID#:	M13888	Vendor:	LabChem
Analyst:	MDS	Chemical:	Stannous Chloride Dihydrate
Date Received:	07/25/2019	Lot #:	J142-19
Expiration Date (if any):		Catalog #:	LC251701

Standard ID#:	M13889	Vendor:	LabChem
Analyst:	MDS	Chemical:	Stannous Chloride Dihydrate
Date Received:	07/25/2019	Lot #:	J142-19
Expiration Date (if any):		Catalog #:	LC251701

		Instrument:	CETAC
Standard Log #:	M13884	Reagent:	Hg Aqua Regia
Analyst:	BMM		
Prep Date:	07/22/2019	Expiration Date:	
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	GFAA
Standard Log #:	M13885	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	07/22/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13886	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	07/22/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13887	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	07/22/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	CETAC
Standard Log #:	M13883	Reagent:	Stannous Chloride Solution
Analyst:	MDS		
Prep Date:	07/18/2019	Expiration Date:	01/03/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13648 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13879	Reagent:	Hg Aqua Regia
Analyst:	MDS		
Prep Date:	07/18/2019	Expiration Date:	07/18/2020
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13880	Standard:	Hg ICAL
Analyst:	MDS	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	07/18/2019	Expiration Date:	01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	CETAC
Standard Log #:	M13881	Standard:	Alt. Source Working Std.
Analyst:	MDS	Concentrations:	10,000 and 100 ug/L
Prep Date:	07/18/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	CETAC
Standard Log #:	M13882	Standard:	Hg ICV/LCS
Analyst:	MDS	Concentration:	3 ug/L
Prep Date:	07/18/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13881 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

Standard Log #:	M13876	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	07/18/2019	Expiration Date:	07/18/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix.		

Standard Log #:	M13877	Reagent:	10N NaOH
Analyst:	BMM		
Prep Date:	07/18/2019	Expiration Date:	07/18/2020
Prep:	Into a 1 L volumetric flask, added **400 g** NaOH W45383 and brought up to volume.		

Standard Log #:	M13878	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	07/18/2019	Expiration Date:	07/18/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M45383. Dilute to 20 L and mix.		

Standard Log #:	M13873	Reagent:	Potassium Permanganate Solution
Analyst:	NAH		
Prep Date:	07/17/2019	Expiration Date:	07/17/2020
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13080 and brought up to volume.		

Standard ID#:	M13874	Vendor:	Fisher
Analyst:	NAH	Chemical:	Hydroxylamine Sulfate
Date Received:	07/17/2019	Lot #:	175511
Expiration Date (if any):		Catalog #:	H331-500

Standard Log #:	M13875	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	NAH		
Prep Date:	07/18/2019	Expiration Date:	07/18/2020
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13728 and **60 g** hydroxylamine sulfate M13727 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13872	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	07/12/2019	Expiration Date:	07/12/2019
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.679 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13871	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	07/11/2019	Expiration Date:	07/11/2019
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.679 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13870	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	07/10/2019	Expiration Date:	07/10/2019
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.679 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13869	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	07/08/2019	Expiration Date:	07/08/2019
Prep:	Carefully mixed **3** parts HCl AB.680 with **1** part HNO_3 AB.679 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13868	Reagent:	Stannous Chloride Solution
Analyst:	LJF		
Prep Date:	07/03/2019	Expiration Date:	01/03/2020
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13648 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13864	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	07/02/2019	Expiration Date:	07/02/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

Standard Log #:	M13865	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	LJF		
Prep Date:	07/02/2019	Expiration Date:	01/02/2020
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13728 and **60 g** hydroxylamine sulfate M13727 and brought up to volume.		

Standard Log #:	M13866	Reagent:	Potassium Permanganate Solution
Analyst:	LJF		
Prep Date:	07/02/2019	Expiration Date:	01/02/2020
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13080 and brought up to volume.		

Standard Log #:	M13867	Reagent:	Potassium Persulfate Solution
Analyst:	LJF		
Prep Date:	07/02/2019	Expiration Date:	01/02/2020
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium persulfate M13059 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13858	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	06/26/2019	Expiration Date:	06/26/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

Standard ID#:	M13859	Vendor:	CPI
Analyst:	NAH	Chemical:	Ce 1000 mg/L
Date Received:	06-26-2019	Lot #:	171633-12
Expiration Date (if any):	12/2020	Catalog #:	S4400-1000101

Standard ID#:	M13860	Vendor:	CPI
Analyst:	NAH	Chemical:	Mo 1000 mg/L
Date Received:	06-26-2019	Lot #:	987189-17
Expiration Date (if any):	12/2020	Catalog #:	S4400-1000343

Standard ID#:	M13861	Vendor:	CPI
Analyst:	NAH	Chemical:	Si 1000 mg/L
Date Received:	06-26-2019	Lot #:	175213-60
Expiration Date (if any):	12/2020	Catalog #:	S4400-1000504F

Standard ID#:	M13862	Vendor:	CPI
Analyst:	NAH	Chemical:	Na 10000 mg/L
Date Received:	06-26-2019	Lot #:	752887-32
Expiration Date (if any):	12/2020	Catalog #:	4400-10M521

Standard ID#:	M13863	Vendor:	CPI
Analyst:	NAH	Chemical:	As 1000 mg/L
Date Received:	06-26-2019	Lot #:	175385-105
Expiration Date (if any):	12/2020	Catalog #:	S4400-100031

Standard Log #:	M13856	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	06/21/2019	Expiration Date:	06/21/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix.		

Standard Log #:	M13857	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	06/21/2019	Expiration Date:	06/21/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix.		

		Instrument:	CETAC
Standard Log #:	M13855	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	06/19/2019	Expiration Date:	06/19/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

Standard ID#:	M13851	Vendor:	CPI
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	06-19-2019	Lot #:	52-082CR
Expiration Date (if any):	06/30/2020	Catalog #:	XSPIKE-1-250

		Instrument:	GFAA
Standard Log #:	M13852	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	06/19/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q H_2O. ($1\% HNO_3$)		

		Instrument:	GFAA
Standard Log #:	M13853	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	06/19/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI H_2O. ($1\% HNO_3$)		

		Instrument:	GFAA
Standard Log #:	M13854	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	06/19/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI H_2O. ($1\% HNO_3$)		

		Instrument:	CETAC
Standard Log #:	M13850	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	06/14/2019	Expiration Date:	06/14/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

Standard Log #:	M13849	Instrument:	GFAA
Analyst:	MDS	Standard:	MDL Spiking Solution
Prep Date:	06/13/2019	Expiration Date:	07/2019

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (2% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
Ag	0.2	M13458	1000	0.01
As	2	M13392	1000	0.1
Pb	2	M13615	10000	0.01
Sb	2	M13459	1000	0.1
Se	2	M13460	1000	0.1
Tl	2	M13583	1000	0.1

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard Log #:	M13848	Instrument:	ICP 6500
Analyst:	NAH	Standard:	LOQ 3010 DOD Metals Spiking S
Prep Date:	06/11/2019	Expiration Date:	10/19

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3, 5% HCl)

Analyte	MDL Conc. (ug/L)	Std. ID #	Std Conc	Volume (mL) pipetted into 1 L
Ag	4	M13458	1000	0.2
Al	36	M13611	**10000**	0.18
As	24	M13753	1000	1.2
Ba	1.8	M13457	1000	0.09
Be	0.6	M13579	1000	0.03
Ca	100	M13692	**10000**	0.5
Cd	2.0	M13570	1000	0.1
Co	4	M13575	1000	0.2
Cr	4	M13697	**10000**	0.02
Cu	7	M13618	**10000**	0.035
Fe	100	M13609	**10000**	0.5
Mg	40	M13694	**10000**	0.2
Mn	4	M13616	**10000**	0.02
Mo	7	M13697	1000	0.35
Ni	6	M13569	1000	0.2
Pb	4	M13615	**10000**	0.02
Sb	12	M13459	1000	0.6
Se	13	M13460	1000	0.65
Tl	20	M13583	1000	0.75
V	5	M13578	1000	0.25
Zn	10	M13610	**10000**	0.05

Of this Base standard, pipet **10 mL** into a 500 mL volumetric flask to create a working std or **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard Log #:	M13847	Instrument:	ICP 6500
Analyst:	NAH	Standard:	LOQ 3050 DOD Metals Spiking S
Prep Date:	06/11/2019	Expiration Date:	10/19

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3, 5% HCl)

Analyte	MDL Conc. (ug/L)	Std. ID #	Std Conc	Volume (mL) pipetted into 1 L
Ag	4	M13458	1000	0.2
Al	9.6	M13611	**10000**	0.048
As	32	M13753	1000	1.6
Ba	2	M13457	1000	0.1
Be	1.6	M13579	1000	0.08
Ca	56	M13692	**10000**	0.28
Cd	1.6	M13570	1000	0.08
Co	9.6	M13575	1000	0.48
Cr	5.6	M13697	**10000**	0.028
Cu	16	M13618	**10000**	0.08
Fe	72	M13609	**10000**	0.36
Mg	32	M13694	**10000**	0.16
Mn	6	M13616	**10000**	0.03
Mo	9.6	M13697	1000	0.48
Ni	4.8	M13569	1000	0.24
Pb	10	M13615	**10000**	0.05
Sb	32	M13459	1000	1.6
Se	16	M13460	1000	0.8
Tl	19	M13583	1000	0.95
V	3.2	M13578	1000	0.16
Zn	12	M13610	**10000**	0.06

Of this Base standard, pipet **10 mL** into a 500 mL volumetric flask to create a working std or **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard Log #:	M13845	Instrument:	ICP
Analyst:	NAH	Standard:	LOQ 3010 k&na Spiking Solution
Prep Date:	06/11/2019	Expiration Date:	06/2020

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
K	500	M13811	10000	2.5
Na	600	M13691	10000	3

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard Log #:	M13846	Instrument:	ICP
Analyst:	NAH	Standard:	LOQ 3050 k&na Spiking Solution
Prep Date:	06/11/2019	Expiration Date:	06/2020

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
K	2640	M13811	10000	13.2
Na	960	M13691	10000	4.8

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard ID#:	M13839	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	06/11/2019	Lot #:	52-038CR
Expiration Date (if any):	05/30/2020	Catalog #:	XCTWI-5-500

Standard ID#:	M13840	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	06/11/2019	Lot #:	5-244AB
Expiration Date (if any):	06/30/2020	Catalog #:	XCTWWI-1-500

Standard ID#:	M13841	Vendor:	CPI
Analyst:	NAH	Chemical:	Ca 10,000 mg/L
Date Received:	06/11/2019	Lot #:	855297-41
Expiration Date (if any):	11/2020	Catalog #:	4400-10M91

Standard ID#:	M13842	Vendor:	CPI
Analyst:	NAH	Chemical:	Al 10,000 mg/L
Date Received:	06/11/2019	Lot #:	169484-36
Expiration Date (if any):	11/2020	Catalog #:	4400-10M11

Standard ID#:	M13843	Vendor:	CPI
Analyst:	NAH	Chemical:	Y 10,000 mg/L
Date Received:	06/11/2019	Lot #:	168189-30
Expiration Date (if any):	11/20	Catalog #:	4400-10M671

Standard ID#:	M13844	Vendor:	CPI
Analyst:	NAH	Chemical:	Si 1000 mg/L
Date Received:	06/11/2019	Lot #:	175213-60
Expiration Date (if any):	11/2020	Catalog #:	S4400-1000504F

		Instrument:	GFAA
Standard Log #:	M13838	Standard:	LODW/LOQW Ag Spiking Sol'n
Analyst:	MDS	Concentrations:	10 ug/L (Ag)
Prep Date:	06/07/2019	Expiration Date:	10/2019
Prep:	Into a 100 mL volumetric flask, pipetted **0.1 mL** of Ag (1000mg/L) M13458 and brought to volume with Milli-Q H_2O to make a 1000 ug/L Ag std. Into a 1 L volumetric flask, pipetted **10 mL** of Ag (*1000 ug/L*) std. and brought to volume with Milli-Q H_2O. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (*0.2 ug/L*) and **2 mL** spiking solution for LOQ (*0.4 ug/L*)		

		Instrument:	GFAA
Standard Log #:	M13836	Standard:	LODS/LOQS Spiking Sol'n
Analyst:	MDS	Concentrations:	60 ug/L (Sb) 160 ug/L (As,Se) 40 ug/L (Pb) 50 ug/L (Tl)
Prep Date:	06/07/2019	Expiration Date:	07/2019
Prep:	Into a 200 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. **1.2 mL** of Sb (1000 mg/L) M13459 **3.2 mL** of As (1000 mg/L) M13392 **3.2 mL** of Se (1000 mg/L) M13460 **0.08 mL** of Pb (10,000 mg/L) M13615 **1.0 mL** of Tl (1000 mg/L) M13583 From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q H_2O to make the spiking solution. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (1.2 *ug/L* Sb, *3.2 ug/L* As, *3.2 ug/L* Se, *0.8 ug/L* Pb, *1 ug/L* Tl) and **2 mL** spiking solution for LOQ (2.4 *ug/L* Sb, *6.4 ug/L* As, *6.4 ug/L* Se, *1.6 ug/L* Pb, *2 ug/L* Tl)		

		Instrument:	GFAA
Standard Log #:	M13837	Standard:	LODW/LOQW Spiking Sol'n
Analyst:	MDS	Concentrations:	150 ug/L (Sb) 100 ug/L (As) 200 ug/L (Se) 45 ug/L (Pb) 40 ug/L (Tl)
Prep Date:	06/07/2019	Expiration Date:	07/2019
Prep:	Into a 100 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. **1.5 mL** of Sb (1000 mg/L) M13459 **1.0 mL** of As (1000 mg/L) M13392 **2.0 mL** of Se (1000 mg/L) M13460 **0.045 mL** of Pb (10,000 mg/L) M13615 **0.4 mL** of Tl (1000 mg/L) M13583 From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q H_2O to make the spiking solution. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (*3 ug/L* Sb, *2 ug/L* As, *4 ug/L* Se, *0.9 ug/L* Pb, *0.8 ug/L* Tl) and **2 mL** spiking solution for LOQ (*6 ug/L* Sb, *4 ug/L* As, *8 ug/L* Se, *1.8 ug/L* Pb, *1.6 ug/L* Tl)		

		Instrument:	CETAC
Standard Log #:	M13835	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	06/06/2019	Expiration Date:	06/06/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	ICP 6500
Standard Log #:	M13832	Standard:	CCV1
Analyst:	NAH	Concentrations:	**5000 µg/L** Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn **500 µg/L** Ag, Be, Cd
Prep Date:	06/03/2019	Expiration Date:	02/20
Prep:	Into a 1 L volumetric flask, pipetted **50 mL** Custom Assurance Standard #23 XCTWI-5-500 (100 mg/L Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13741 and **5.0 mL** of Custom Assurance Std. #3 XCTWI-4-500 (100 mg/L Ag, Be, Cd) M13827 and brought up to volume with milli-Q H_2O.		

		Instrument:	ICP 6500
Standard Log #:	M13833	Standard:	CCV2
Analyst:	NAH	Concentrations:	**500 µg/L** Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn **50 µg/L** Ag, Be, Cd
Prep Date:	06/03/2019	Expiration Date:	02/20
Prep:	Into a 1 L volumetric flask, pipetted **5 mL** Custom Assurance Standard #23 XCTWI-5-500 (100 mg/L Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13741 and **0.5 mL** of Custom Assurance Std. #3 XCTWI-4-500 (100 mg/L Ag, Be, Cd) M13827 and brought up to volume with milli-Q H_2O.		

		Instrument:	ICP 6500
Standard Log #:	M13834	Standard:	ICSAB
Analyst:	NAH	Concentrations:	**500,000 ug/L** Al, Ca, Fe, Mg **500 ug/L** Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn
Prep Date:	06/03/2019	Expiration Date:	02/20
Prep:	Into a 500 mL volumetric flask, pipetted **50 mL** Interferents A Standard ((5000 mg/L Al, Ca, Mg) (2000 mg/L Fe)) M13738, **15 mL** Fe (10,000 mg/L) M13751, **2.5 mL** of Custom Assurance Std. #3 (100 mg/L Ag, Be, Cd) M13827 and **2.5 mL** Custom Assurance Std. #23 (100 mg/L Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13741 and brought up to volume with milli-Q H_2O.		

		Instrument:	CETAC
Standard Log #:	M13830	Reagent:	Stannous Chloride Solution
Analyst:	LJF		
Prep Date:	06/03/2019	Expiration Date:	12/03/2019
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.676 and dissolved **100 g** Stannous chloride M13648 and brought up to volume.		

		Instrument:	ICP 6500
Standard Log #:	M13831	Standard:	ICAL
Analyst:	NAH	Concentrations:	0.25, 0.5, 1, 5, 10, 20, 50, 100, 1000, 10,000, 100k, 100,000, 500,000 and 1000k (ug/L)
Prep Date:	06/03/2019	Expiration Date:	02/20
Prep:	Using 1 L volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (5% HNO_3, 5% HCl) *1000 ug/L Std.* - **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13741, **10 mL** of Custom Assurance Std. #3 (100 mg/L Ag, Be, Cd) M13827 and **1 mL** of Si (1000 mg/L) M13810 and 1 mL M13703 Ce *0.25 ug/L Std.* - **0.25 mL** of the 1000 ug/L Std. *0.5 ug/L Std.* - **0.5 mL** of the 1000 ug/L Std. *1 ug/L Std.* - **1 mL** of the 1000 ug/L Std. *5 ug/L Std.* - **5 mL** of the 1000 ug/L Std. *10 ug/L Std.* - **10 mL** of the 1000 ug/L Std. *20 ug/L Std.* - **20 mL** of the 1000 ug/L Std. *50 ug/L Std.* - **50 mL** of the 1000 ug/L Std. *100 ug/L Std.* - **1 mL** of Custom Assurance Std. (CAS) #23 and **1 mL** of CAS #3 *10,000 ug/L Std.* - **100 mL** CAS #23, **100 mL** CAS #3 and **1 mL** of K (10,000 mg/L) M13811. *100k ug/L Std.* - **10 mL** of Cu (10,000 mg/L) M13618, **10 mL** of Mn (10,000 mg/L) M13616, **10 mL** of Cr (10,000 mg/L) M13617, **10 mL** Pb (10,000 mg/L) M13610, **10 mL** of Zn (10,000 mg/L) M13615 and **10 mL** of Na (10,000 mg/L) M13691. *100,000 ug/L Std.* - **10 mL** of Mg (10,000 mg/L) M13752, **10 mL** of Fe (10,000 mg/L) M13751, **10 mL** of Ca (10,000 mg/L) M13690 and **10 mL** Al (10,000 mg/L) M13693. *500,000 ug/L Std.* - **50 mL** of Mg (10,000 mg/L), **50 mL** of Fe (10,000 mg/L), **50 mL** of Ca (10,000 mg/L) and **50 mL** of Al (10,000 mg/L) *1000k ug/L Std.* - **100 mL** of Mg (10,000 mg/L), **100 mL** of Fe (10,000 mg/L), **100 mL** of Ca (10,000 mg/L) and **100 mL** of Al (10,000 mg/L)		

		Instrument:	CETAC
Standard Log #:	M13829	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	05/31/2019	Expiration Date:	05/31/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13828	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	05/30/2019	Expiration Date:	05/30/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

Standard ID#:	M13827	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	05-29-2019	Lot #:	XCTWI-4-500
Expiration Date (if any):	5/30/2020	Catalog #:	5-116AB

		Instrument:	CETAC
Standard Log #:	M13823	Standard:	Hg CCV
Analyst:	LJF	Concentration:	3.0 ug/L Hg
Prep Date:	05/24/2019	Expiration Date:	01/01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	CETAC
Standard Log #:	M13824	Reagent:	Stannous Chloride Solution
Analyst:	LJF		
Prep Date:	05/24/2019	Expiration Date:	11/24/2019
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.676 and dissolved **100 g** Stannous chloride M13648 and brought up to volume.		

Standard Log #:	M13825	Reagent:	Potassium Persulfate Solution
Analyst:	LJF		
Prep Date:	05/24/2019	Expiration Date:	11/24/2019
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium persulfate M13059 and brought up to volume.		

Standard Log #:	M13826	Reagent:	Potassium Permanganate Solution
Analyst:	LJF		
Prep Date:	05/24/2019	Expiration Date:	11/24/2019
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13080 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13820	Standard:	Hg ICAL
Analyst:	LJF	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	05/24/2019	Expiration Date:	01/01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	CETAC
Standard Log #:	M13821	Standard:	Alt. Source Working Std.
Analyst:	LJF	Concentrations:	10,000 and 100 ug/L
Prep Date:	05/24/2019	Expiration Date:	02/28/2020
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	CETAC
Standard Log #:	M13822	Standard:	Hg ICV/LCS
Analyst:	LJF	Concentration:	3 ug/L
Prep Date:	05/24/2019	Expiration Date:	02/28/2020
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13734 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

Standard Log #:	M13818	Reagent:	TCLP 1 N HCL
Analyst:	BMM		
Prep Date:	05/22/2019	Expiration Date:	05/23/2020
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, added 83 mL HCL AB.676 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13819	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	05/22/2019	Expiration Date:	05/22/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13817	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	05/16/2019	Expiration Date:	05/16/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

Standard Log #:	M13813	Instrument:	GFAA
Analyst:	MDS	Reagent:	Pd/Mg Matrix Modifier
Prep Date:	05/14/2019	Expiration Date:	09/30/2019
Prep:	Into a 50 mL volumetric flask, partially filled with milli-Q H_2O, pipetted **15 mL** Pd Modifier M13600 and **10 mL** Mg (10,000 mg/L) M13694 and brought up to volume.		

		Instrument:	GFAA
Standard Log #:	M13814	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	05/14/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13815	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	05/14/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13816	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	05/14/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

Standard Log #:	M13812	Reagent:	Potassium Permanganate Solution
Analyst:	LJF		
Prep Date:	05/13/2019	Expiration Date:	11/13/2019
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13080 and brought up to volume.		

Standard ID#:	M13808	Vendor:	CPI
Analyst:	NAH	Chemical:	Na 10,000 ug/mL
Date Received:	05-09-2019	Lot #:	158237-121
Expiration Date (if any):	10/20	Catalog #:	4400-1000521-500

Standard ID#:	M13809	Vendor:	CPI
Analyst:	NAH	Chemical:	K 10,000 ug/mL
Date Received:	05-09-2019	Lot #:	832313-110
Expiration Date (if any):	10/20	Catalog #:	4400-1000411-500

Standard ID#:	M13810	Vendor:	CPI
Analyst:	NAH	Chemical:	Si 1000 ug/mL
Date Received:	05-09-2019	Lot #:	175213-60
Expiration Date (if any):	10/20	Catalog #:	S400-1000504F

Standard ID#:	M13811	Vendor:	CPI
Analyst:	NAH	Chemical:	K 10,000 ug/mL
Date Received:	05-09-2019	Lot #:	980507-14
Expiration Date (if any):	10/20	Catalog #:	4400-10M411-500

		Instrument:	CETAC
Standard Log #:	M13805	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	05/07/2019	Expiration Date:	05/07/2019
Prep:	Carefully mixed **3** parts HCl AB.677 with **1** part HNO_3 AB.676 in a hood.		

Standard Log #:	M13806	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	05/07/2019	Expiration Date:	05/07/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix.		

Standard Log #:	M13807	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	05/07/2019	Expiration Date:	05/07/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix.		

MRL BASE STD M13804

Analyst NAH

Prep Date 05/07/2019

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	Expiration Date
Ag	20	M13458	1000	1	10/19
Al	400	M13611	10000	2	3/20
Ba	10	M13457	1000	0.5	10/19
Be	4	M13579	1000	0.2	2/20
Cd	5	M13570	1000	0.25	1/20
Co	10	M13575	1000	0.5	1/20
Cr	10	M13617	10000	0.05	3/20
Cu	10	M13618	10000	0.05	3/20
Mg	500	M13694	10000	2.5	6/20
Mn	10	M13616	10000	0.05	3/20
Mo	10	M13697	1000	0.5	6/20
Ni	10	M13569	1000	0.5	1/20
Pb	10	M13615	10000	0.05	3/20
Sb	20	M13579	1000	1	10/19
V	10	M13578	1000	0.5	2/20
Zn	10	M13610	10000	0.05	3/20
K	1000	M13755	10000	5	9/20
Na	1000	M13691	10000	5	6/20
As	20	M13753	1000	1	10000 std 0.1, 9/20
Ca	500	M13692	10000	2.5	6/20
Fe	300	M13695	10000	1.5	6/20
Se	20	M13460	1000	1	10/19
Tl	20	M13583	1000	1	2/20
Si	100	M13754	1000	5	9/20
B	20	M13531	1000	1	12/19
Li	20	M13577	1000	1	2/20
W	50	xxxx	1000	2.5	xxxx
Ti	10	M13573	1000	0.5	1/20
Sr	10	M13580	1000	0.5	2/20
Sn	50	M13572	1000	2.5	1/20
S	300	M13604	10000	1.5	3/20

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expiration Date: 10/19

		Instrument:	CETAC
Standard Log #:	M13800	Reagent:	Stannous Chloride Solution
Analyst:	LJF		
Prep Date:	05/06/2019	Expiration Date:	11/06/2019
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.676 and dissolved **100 g** Stannous chloride M13648 and brought up to volume.		

		Instrument:	ICP 6000
Standard Log #:	M13801	Standard:	B&Si ICAL
Analyst:	MDS	Concentrations:	50, 200, 1000, 2000 and 10,000 ug/L (B, Si)
Prep Date:	05/06/2019	Expiration Date:	12/2019
Prep:	Into five, 1 L volumetric flasks, pipetted the following from stock standards B (1000 mg/L) M13531 and Si (1000 mg/L) M13731 and brought up to volume using milli-Q H_2O. *50 ug/L std.* - **0.05 mL** of each *200 ug/L std.* - **0.2 mL** of each *1000 ug/L std.* -**1.0 mL** of each, also used for Continuing Calibration Verification *2000 ug/L std.* - **2.0 mL** of each *10,000 ug/L std.* -**10 mL** of each		

		Instrument:	ICP 6000
Standard Log #:	M13802	Standard:	B&Si ICV
Analyst:	MDS	Concentrations:	1000 ug/L (B, Si)
Prep Date:	05/06/2019	Expiration Date:	02/28/2020
Prep:	Into a 1 L volumetric flask, pipetted **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, **B**, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13741 and **1.0 mL** Si (1000 mg/L) M13754 and brought up to volume using milli-Q H_2O.		

		Instrument:	ICP 6000
Standard Log #:	M13803	Standard:	B & Si ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (B,Si)
Prep Date:	05/06/2019	Expiration Date:	09/30/2019
Prep:	Into a 100 mL volumetric flask, pipetted **10 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13635, **0.05 mL** of B (1000 µg/mL) M13531, **0.05 mL** of Si (1000 µg/mL) M13731 and **3 mL** of Fe (10,000 mg/L) M13609 and brought up to volume using Milli-Q H_2O.		

		Instrument:	ICP 6000
Standard Log #:	M13798	Standard:	L2 ICV
Analyst:	MDS	Concentrations:	1000 µg/L (Li, Sn, Sr, Ti, W)
Prep Date:	05/03/2019	Expiration Date:	01/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of the following and brought up to volume using milli-Q H_2O. (0.5% HNO_3, 0.5% HCl) Li (1000 µg/mL) M13577 Sn (1000 µg/mL) M13572 Sr (1000 µg/mL) M13580 Ti (1000 µg/mL) M13573 W (1000 µg/mL) MXXXXX		

		Instrument:	ICP 6000
Standard Log #:	M13799	Standard:	List 2 MRL/ICVLL Prep Solution
Analyst:	MDS	Concentrations:	5000 µg/L (W) 1000 µg/L (Li, Sn) 500 µg/L (Ti, Sr)
Prep Date:	05/03/2019	Expiration Date:	01/2020

Prep:

Analyte	MRL/ICVLL Conc. (µg/L)	Standard ID	Std. Conc. (µg/mL)	Volume (mL) Pipetted into 1 L	Expiration Date
Li	20/60	M13577	1000	1	02/2020
W	100/300	MXXXXX	1000	5	XX/XXXX
Ti	10/30	M13573	1000	0.5	01/2020
Sr	10/30	M13580	1000	0.5	02/2020
Sn	20/60	M13572	1000	1	01/2020

Pipette **10 mL** into a 500 mL volumetric flask to create a working MRL std. or **1 mL** into a 50 mL digestion tube for a digested MRL standard. Pipette **30 mL** into 500 mL for a working ICVLL std. or **3 mL** into a 50 mL digestion tube for a digested ICVLL standard.

(0.5% HNO_3, 0.5% HCl)

		Instrument:	CETAC
Standard Log #:	M13795	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	05/03/2019	Expiration Date:	05/03/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

		Instrument:	ICP
Standard Log #:	M13796	Standard:	L2 ICAL
Analyst:	MDS	Concentrations:	1 (µg/L) 10 (µg/L) 100 (µg/L) 1000 (µg/L) 10,000 (µg/L)
Prep Date:	05/03/2019	Expiration Date:	02/28/2020
Prep:	Standard Conc. (ug/L) — Pipette the following: 1 — **0.01 mL** of Custom Assurance Standard XCTWI-5-500 M13741 and **0.001 mL** W (1000 µg/mL) MXXXXX into 1L = *1 µg/L* 10 — **0.10 mL** of Custom Assurance Standard XCTWI-5-500 M13741 and **0.01 mL** W (1000 µg/mL) MXXXXX into 1L = *10 µg/L* 100 — **1 mL** of Custom Assurance Standard XCTWI-5-500 M13741 and **0.1 mL** W (1000 µg/mL) MXXXXX into 1L = *100 µg/L* 1000 (CCV) — **2 mL** of Custom Assurance Standard XCTWI-5-500 M13741 and **0.2 mL** W (1000 µg/mL) MXXXXX into 200mL = *1000 µg/L* 10000 — **20 mL** of Custom Assurance Standard XCTWI-5-500 M13741 and **2 mL** W (1000 µg/mL) MXXXXX into 200mL = *10000 µg/L*		

		Instrument:	ICP 6000
Standard Log #:	M13797	Standard:	List 2 ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (Li, Sn, Sr, Ti, W)
Prep Date:	05/03/2019	Expiration Date:	09/30/2019
Prep:	Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13635, **6 mL** of Fe (10,000 mg/L) M13609, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M13572, **0.1 mL** of Sr (1000 µg/mL) M13580, **0.1 mL** of Ti (1000 µg/mL) M13573, and **0.1 mL** of W (1000 µg/mL) MXXXXX and brought up to volume using Milli-Q H_2O. (0.5% HNO_3, 0.5% HCl)		

Standard Log #:	M13793	Reagent:	Potassium Permanganate Solution
Analyst:	LJF		
Prep Date:	05/02/2019	Expiration Date:	11/02/2019
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13793 and brought up to volume.		

Standard Log #:	M13794	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	LJF		
Prep Date:	05/02/2019	Expiration Date:	11/02/2019
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13511 and **60 g** hydroxylamine sulfate M13727 and brought up to volume.		

Standard ID#:	M13790	Vendor:	Environmental Express
Analyst:	NAH	Chemical:	Y 10000 mg/L
Date Received:	04/29/2019	Lot #:	1833905
Expiration Date (if any):	10/31/2020	Catalog #:	HP10M67-1

Standard ID#:	M13791	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	04/29/2019	Lot #:	51-239CR
Expiration Date (if any):	02/28/2020	Catalog #:	XSPIKE-1-250

		Instrument:	CETAC
Standard Log #:	M13792	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	04/29/2019	Expiration Date:	04/29/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.677 in a hood.		

Standard ID#:	M13785	Vendor:	Inorganic Ventures
Analyst:	MDS	Chemical:	GFAA ICAL/CCV BASE STD
Date Received:	04/19/2019	Lot #:	P2-MEB678822
Expiration Date (if any):	04/19/2020	Catalog #:	CTI-SPK-1

Standard ID#:	M13786	Vendor:	Inorganic Ventures
Analyst:	MDS	Chemical:	GFAA ICV/SPIKE BASE STD
Date Received:	04/19/2019	Lot #:	P2-MEB678821
Expiration Date (if any):	04/19/2020	Catalog #:	CTI-GFCAL-1

		Instrument:	GFAA
Standard Log #:	M13787	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	04/19/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q H_2O. ($1\% HNO_3$)		

		Instrument:	GFAA
Standard Log #:	M13788	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	04/19/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI H_2O. ($1\% HNO_3$)		

		Instrument:	GFAA
Standard Log #:	M13789	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	04/19/2019	Expiration Date:	04/19/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI H_2O. ($1\% HNO_3$)		

Standard Log #:	M13782	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	04/18/2019	Expiration Date:	04/18/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix.		

Standard ID#:	M13783	Vendor:	Alfa Aesar
Analyst:	MDS	Chemical:	GFAA 1% Nickel Nitrate Matrix Mod.
Date Received:	04/18/2019	Lot #:	9166009
Expiration Date (if any):	09/30/2020	Catalog #:	39043

Standard Log #:	M13784	Reagent:	Potassium Permanganate Solution
Analyst:	LJF		
Prep Date:	04/18/2019	Expiration Date:	10/18/2019
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13080 and brought up to volume.		

Standard Log #:	M13780	Reagent:	Potassium Persulfate Solution
Analyst:	LJF		
Prep Date:	04/17/2019	Expiration Date:	10/17/2019
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium persulfate M13059 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13781	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	04/17/2019	Expiration Date:	04/17/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.675 in a hood.		

		Instrument:	ICP 6000
Standard Log #:	M13779	Standard:	NaK ICSAB
Analyst:	MDS	Concentrations:	500 mg/L (Al, Ca, Fe, Mg) 100 mg/L (Na, K)
Prep Date:	04/12/2019	Expiration Date:	09/30/2019
Prep:	Into a 250 mL volumetric flask, pipetted **25 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13635, **2.5 mL** of K (10,000 mg/L) M13693, **2.5 mL** of Na (10,000 mg/L) M13605 and **7.5 mL** of Fe (10,000 mg/L) M13609 and brought up to volume using Milli-Q H_2O. (2% HNO_3)		

Standard Log #:	M13778	Reagent:	1:3 HNO3
Analyst:	MDS		
Prep Date:	04/11/2019	Expiration Date:	04/11/2020
Prep:	Carefully mixed **3** parts DI with **1** part HNO_3 AB.672 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13777	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	04/09/2019	Expiration Date:	04/09/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.675 in a hood.		

Standard Log #:	M13775	Instrument:	GFAA
Analyst:	MDS	Reagent:	Pd/Mg Matrix Modifier
Prep Date:	04/02/2019	Expiration Date:	09/30/2019
Prep:	Into a 50 mL volumetric flask, partially filled with milli-Q H_2O, pipetted **15 mL** Pd Modifier M13600 and **10 mL** Mg (10,000 mg/L) M13614 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13776	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	04/03/2019	Expiration Date:	04/03/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.675 in a hood.		

		Instrument:	GFAA
Standard Log #:	M13771	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	03/26/2019	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13772	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	03/26/2019	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13773	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	03/26/2019	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13498 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13774	Standard:	Sb ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 µg/L (Sb)
Prep Date:	03/26/2019	Expiration Date:	10/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.01 mL** of Antimony Stock Std. (1000 µg/mL Sb) M13459 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	CETAC
Standard Log #:	M13770	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	03/25/2019	Expiration Date:	03/25/2019
Prep:	Carefully mixed **3** parts HCl AB.676 with **1** part HNO_3 AB.675 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13768	Standard:	Hg CCV
Analyst:	LJF	Concentration:	3.0 ug/L Hg
Prep Date:	03/21/2019	Expiration Date:	01/01/2019
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	CETAC
Standard Log #:	M13769	Reagent:	Stannous Chloride Solution
Analyst:	LJF		
Prep Date:	03/21/2019	Expiration Date:	09/21/2019
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.676 and dissolved **100 g** Stannous chloride M13648 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13765	Standard:	Hg ICAL
Analyst:	LJF	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	03/21/2019	Expiration Date:	01/01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	CETAC
Standard Log #:	M13766	Standard:	Alt. Source Working Std.
Analyst:	LJF	Concentrations:	10,000 and 100 ug/L
Prep Date:	03/21/2019	Expiration Date:	04/30/2019
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13444 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	CETAC
Standard Log #:	M13767	Standard:	Hg ICV/LCS
Analyst:	LJF	Concentration:	3 ug/L
Prep Date:	03/21/2019	Expiration Date:	04/30/2019
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13444 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

Standard Log #:	M13763	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	03/20/2019	Expiration Date:	03/20/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix.		

Standard Log #:	M13764	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	03/20/2019	Expiration Date:	03/20/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix.		

		Instrument:	CETAC
Standard Log #:	M13761	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	03/19/2019	Expiration Date:	03/19/2019
Prep:	Carefully mixed **3** parts HCl AB.671 with **1** part HNO_3 AB.672 in a hood.		

Standard Log #:	M13762	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	LJF		
Prep Date:	03/19/2019	Expiration Date:	09/19/2019
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13511 and **60 g** hydroxylamine sulfate M13468 and brought up to volume.		

		Instrument:	ICP 6500
Standard Log #:	M13758	Standard:	ICSA4_Ni_Ti
Analyst:	NAH	Concentrations:	**10,000 ug/L** Ni and Ti
Prep Date:	03/13/2019	Expiration Date:	01/2020
Prep:	Into a 500 mL volumetric flask, pipetted 5.0 **mL** 1000 mg/L Ni M13569 5.0 **mL** 10000 mg/L Ti M13573 brought up to volume with milli-Q H_2O.		

		Instrument:	ICP 6500
Standard Log #:	M13759	Standard:	ICSA2_Ba_Be_Sn
Analyst:	NAH	Concentrations:	**10,000 ug/L** Ba, Be, and Sn
Prep Date:	03/13/2019	Expiration Date:	10/2019
Prep:	Into a 500 mL volumetric flask, pipetted 5.0 **mL** 1000 mg/L Ba M13457 5.0 **mL** 10000 mg/L Be M13579 5.0 **mL** 10000 mg/L Sn M13572 brought up to volume with milli-Q H_2O.		

		Instrument:	ICP 6500
Standard Log #:	M13760	Standard:	ICSA
Analyst:	NAH	Concentrations:	**500,000 ug/L** Al, Ca, Fe, Mg **10,000** V, Ce
Prep Date:	03/13/2019	Expiration Date:	09/2019
Prep:	Into a 500 mL volumetric flask, pipetted 50 **mL** Interference A std M13635 and 15 **mL** 10000 mg/L Fe M13609 5.0 **mL** 1000 mg/L V M13578 5.0 **mL** 1000 mg/L Ce M13203 and brought up to volume with milli-Q H_2O.		

		Instrument:	ICP 6500
Standard Log #:	M13756	Standard:	ICSA1_Mn
Analyst:	NAH	Concentrations:	**10,000 ug/L** Mn
Prep Date:	03/13/2019	Expiration Date:	03/2020
Prep:	Into a 500 mL volumetric flask, pipetted 0.5 **mL** 10000 mg/L mn M13616 brought up to volume with milli-Q H_2O.		

		Instrument:	ICP 6500
Standard Log #:	M13757	Standard:	ICSA3_Cr_Cu_Co_Mo
Analyst:	NAH	Concentrations:	**10,000 ug/L** Cr, Cu, Co and Mo
Prep Date:	03/13/2019	Expiration Date:	01/20
Prep:	Into a 500 mL volumetric flask, pipetted 0.5 **mL** 10000 mg/L Cr M13617 0.5 **mL** 10000 mg/L Cu M13618 5.0 **mL** 1000 mg/L Co M13575 5.0 **mL** 1000 mg/L Mo M13697 brought up to volume with milli-Q H_2O.		

Standard ID#:	M13751	Vendor:	CPI
Analyst:	NAH	Chemical:	Fe 10000 mg/L
Date Received:	03/12/2019	Lot #:	998527-19
Expiration Date (if any):	09/2020	Catalog #:	4400-10M261

Standard ID#:	M13752	Vendor:	CPI
Analyst:	NAH	Chemical:	Mg 10000 mg/L
Date Received:	03/12/2019	Lot #:	982185-12
Expiration Date (if any):	09/2020	Catalog #:	4400-10M311

Standard ID#:	M13753	Vendor:	CPI
Analyst:	NAH	Chemical:	As 10000 mg/L
Date Received:	03/12/2019	Lot #:	166531-32
Expiration Date (if any):	09/2020	Catalog #:	S4400--10M31

Standard ID#:	M13754	Vendor:	CPI
Analyst:	NAH	Chemical:	Si 1000 mg/L
Date Received:	03/12/2019	Lot #:	175213-60
Expiration Date (if any):	09/2020	Catalog #:	S4400-1000504F

Standard ID#:	M13755	Vendor:	CPI
Analyst:	NAH	Chemical:	K 10000 mg/L
Date Received:	03/12/2019	Lot #:	172053-77
Expiration Date (if any):	09/2020	Catalog #:	4400-10M411

		Instrument:	CETAC
Standard Log #:	M13749	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	03/08/2019	Expiration Date:	03/08/2019
Prep:	Carefully mixed **3** parts HCl AB.671 with **1** part HNO_3 AB.672 in a hood.		

Standard Log #:	M13750	Reagent:	10N NaOH
Analyst:	BMM		
Prep Date:	03/08/2019	Expiration Date:	03/08/2020
Prep:	Into a 1 L volumetric flask, added **400 g** NaOH W45383 and brought up to volume.		

Standard ID#:	M13748	Vendor:	Potters Ind. LLC (Gainger)
Analyst:	NAH	Chemical:	Glass beads Extra Fine
Date Received:	03/07/2019	Lot #:	
Expiration Date (if any):	XXXXXX	Catalog #:	6ZC13

		Instrument:	ICP
Standard Log #:	M13746	Standard:	L2 ICAL
Analyst:	MDS	Concentrations:	1 (µg/L) 10 (µg/L) 100 (µg/L) 1000 (µg/L) 10,000 (µg/L)
Prep Date:	03/04/2019	Expiration Date:	09/30/2019
Prep:	Standard Conc. (ug/L) — Pipette the following: 1 — **0.01 mL** of Custom Assurance Standard XCTWI-5-500 M13602 and **0.001 mL** W (1000 µg/mL) XXXXXX into 1L = *1 µg/L* 10 — **0.10 mL** of Custom Assurance Standard XCTWI-5-500 M13602 and **0.01 mL** W (1000 µg/mL) XXXXXX into 1L = *10 µg/L* 100 — **1 mL** of Custom Assurance Standard XCTWI-5-500 M13602 and **0.1 mL** W (1000 µg/mL) XXXXXX into 1L = *100 µg/L* 1000 (CCV) — **2 mL** of Custom Assurance Standard XCTWI-5-500 M13602 and **0.2 mL** W (1000 µg/mL) XXXXXX into 200mL = *1000 µg/L* 10000 — **20 mL** of Custom Assurance Standard XCTWI-5-500 M13602 and **2 mL** W (1000 µg/mL) XXXXXX into 200mL = *10000 µg/L*		

		Instrument:	ICP 6000
Standard Log #:	M13747	Standard:	List 2 ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (Li, Sn, Sr, Ti, W)
Prep Date:	03/04/2019	Expiration Date:	09/30/2019
Prep:	Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13635, **6 mL** of Fe (10,000 mg/L) M13609, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M13572, **0.1 mL** of Sr (1000 µg/mL) M13580, **0.1 mL** of Ti (1000 µg/mL) M13573, and **0.1 mL** of W (1000 µg/mL) XXXXXX and brought up to volume using Milli-Q H_2O. (0.5% HNO_3, 0.5% HCl)		

Standard Log #:	M13743	Instrument:	ICP 6500
Analyst:	NAH	Standard:	MDL DOD Metals Spiking soln
Prep Date:	02/26/2019	Expiration Date:	10/19

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3, 5% HCl)

Analyte	MDL Conc. (ug/L)	Std. ID #	Std Conc	Volume (mL) pipetted into 1 L
Ag	5	M13458	1000	0.25
Al	10	M13611	**10000**	0.05
As	20	M13392	1000	1
Ba	2	M13457	1000	0.1
Be	0.5	M13579	1000	0.025
Ca	50	M13692	**10000**	0.25
Cd	0.5	M13570	1000	0.025
Co	2.5	M13575	1000	0.125
Cr	5.0	M13617	**10000**	0.025
Cu	10	M13618	**10000**	0.05
Fe	40	M13609	**10000**	0.2
Mg	25	M13694	**10000**	0.125
Mn	5	M13616	**10000**	0.025
Mo	2.5	M13697	1000	0.125
Ni	5	M13569	1000	0.25
Pb	10	M13615	**10000**	0.05
Sb	20	M13459	1000	1
Se	20	M13460	1000	1
Tl	20	M13583	1000	1
V	5	M13578	1000	0.25
Zn	5	M13610	**10000**	0.025
Na	500	M13605	**10000**	2.5
K	500	M13733	**10000**	2.5
B	20	M13531	1000	1
Si	100	M13731	1000	5
S	200	M13604	**10000**	1
Li	20	M13537	1000	1
Sr	20	M13572	1000	1
Sn	20	M13580	1000	1
Ti	20	M13573	1000	1

Of this Base standard, pipet **10 mL** into a 500 mL volumetric flask to create a working std or **1 mL** into a 50 mL digestion tube for a digested working standard.

		Instrument:	ICP 6000
Standard Log #:	M13740	Standard:	Sulfur ICV
Analyst:	MDS	Concentrations:	100,000 µg/L (S)
Prep Date:	02/26/2019	Expiration Date:	03/2020
Prep:	Into a 100 mL volumetric flask, pipetted **1.0 mL** of S (10,000 µg/mL) M13604 and brought up to volume using Milli-Q H_2O.		

Standard ID#:	M13741	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	02-26-2019	Lot #:	3-153AB
Expiration Date (if any):	02/28/2020	Catalog #:	XCTWI-5-500

Standard ID#:	M13742	Vendor:	IKOHE Blasting Media
Analyst:	NAH	Chemical:	Glass Neads X-fine-20u
Date Received:	02/26/2019	Lot #:	52-144
Expiration Date (if any):	*********	Catalog #:	UL-49/52-1544

		Instrument:	CETAC
Standard Log #:	M13739	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	02/22/2019	Expiration Date:	02/22/2019
Prep:	Carefully mixed **3** parts HCl AB.671 with **1** part HNO_3 AB.672 in a hood.		

Standard ID#:	M13734	Vendor:	SPEX CERTIPREP
Analyst:	LJF	Chemical:	HG 1000 ug/mL
Date Received:	02/21/2019	Lot #:	CL10-136HGY
Expiration Date (if any):	02/28/2020	Catalog #:	CLHG4-2Y

Standard Log #:	M13735	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	02/21/2019	Expiration Date:	02/21/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard Log #:	M13736	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	02/21/2019	Expiration Date:	02/21/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard ID#:	M13737	Vendor:	SPEX CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Std
Date Received:	02/21/2019	Lot #:	51-117CR
Expiration Date (if any):	02/28/2020	Catalog #:	XSPIKE-1-250

Standard ID#:	M13738	Vendor:	SPEX CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Std
Date Received:	02/21/2019	Lot #:	2-230SGX
Expiration Date (if any):	02/28/2020	Catalog #:	INT-A1

		Instrument:	CETAC
Standard Log #:	M13730	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	02/14/2019	Expiration Date:	02/14/2019
Prep:	Carefully mixed **3** parts HCl AB.671 with **1** part HNO_3 AB.672 in a hood.		

Standard ID#:	M13731	Vendor:	CPI
Analyst:	NAH	Chemical:	Silicon 1000 ug/mL
Date Received:	02/14/2019	Lot #:	175213-60
Expiration Date (if any):	08/20	Catalog #:	S4400-1000504F

Standard ID#:	M13732	Vendor:	CPI
Analyst:	NAH	Chemical:	Yttrium 10000 ug/mL
Date Received:	02/14/2019	Lot #:	139448-54
Expiration Date (if any):	08/20	Catalog #:	4400-10M671

Standard ID#:	M13733	Vendor:	CPI
Analyst:	NAH	Chemical:	Potassium 10000 ug/mL
Date Received:	02/14/2019	Lot #:	172053-36
Expiration Date (if any):	08/20	Catalog #:	4400-10M411

Standard ID#:	M13727	Vendor:	FISHER
Analyst:	LJF	Chemical:	HYDROXYLAMINE SULFATE
Date Received:	02/08/2019	Lot #:	175511
Expiration Date (if any):		Catalog #:	H331-500

Standard ID#:	M13728	Vendor:	FISHER
Analyst:	LJF	Chemical:	SODIUM CHLORIDE
Date Received:	02/08/2019	Lot #:	186819
Expiration Date (if any):		Catalog #:	S271-500

Standard Log #:	M13729	Reagent:	Potassium Persulfate Solution
Analyst:	LJF		
Prep Date:	02/11/2019	Expiration Date:	08/11/2019
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium persulfate M13059 and brought up to volume.		

Standard Log #:	M13724	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	02/07/2019	Expiration Date:	02/07/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard Log #:	M13725	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	02/07/2019	Expiration Date:	02/07/2020
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard Log #:	M13726	Reagent:	Potassium Permanganate Solution
Analyst:	LJF		
Prep Date:	02/07/2019	Expiration Date:	08/07/2019
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13080 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13721	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	02/05/2019	Expiration Date:	02/05/2019
Prep:	Carefully mixed **3** parts HCl AB.671 with **1** part HNO_3 AB.672 in a hood.		

Standard Log #:	M13722	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	LJF		
Prep Date:	02/05/2019	Expiration Date:	08/05/2019
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13620 and **60 g** hydroxylamine sulfate M13468 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13723	Reagent:	Stannous Chloride Solution
Analyst:	LJF		
Prep Date:	02/05/2019	Expiration Date:	08/05/2019
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.671 and dissolved **100 g** Stannous chloride M13648 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13720	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	01/31/2019	Expiration Date:	01/31/2019
Prep:	Carefully mixed **3** parts HCl AB.671 with **1** part HNO_3 AB.672 in a hood.		

		Instrument:	GFAA
Standard Log #:	M13716	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	01/30/2019	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13717	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	01/30/2019	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13718	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	01/30/2019	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13498 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13719	Standard:	Sb ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 µg/L (Sb)
Prep Date:	01/30/2019	Expiration Date:	10/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.01 mL** of Antimony Stock Std. (1000 µg/mL Sb) M13459 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13713	Standard:	LODW/LOQW Ag Spiking Sol'n
Analyst:	MDS	Concentrations:	10 ug/L (Ag)
Prep Date:	01/29/2019	Expiration Date:	10/2019
Prep:	Into a 100 mL volumetric flask, pipetted **0.1 mL** of Ag (1000mg/L) M13458 and brought to volume with Milli-Q H_2O to make a 1000 ug/L Ag std. Into a 1 L volumetric flask, pipetted **10 mL** of Ag (*1000 ug/L*) std. and brought to volume with Milli-Q H_2O. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (*0.2 ug/L*) and **2 mL** spiking solution for LOQ (*0.4 ug/L*)		

Standard ID#:	M13714	Vendor:	ACROS ORGANICS
Analyst:	LJF	Chemical:	POTASSIUM PERSULFATE
Date Received:	01/29/2019	Lot #:	A0391673
Expiration Date (if any):		Catalog #:	424185000

Standard ID#:	M13715	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	1/29/2019	Lot #:	51-013CR
Expiration Date (if any):	01/30/2020	Catalog #:	XCTWI-1-500

		Instrument:	GFAA
Standard Log #:	M13711	Standard:	LODS/LOQS Spiking Sol'n
Analyst:	MDS	Concentrations:	60 ug/L (Sb) 160 ug/L (As,Se) 40 ug/L (Pb) 50 ug/L (Tl)
Prep Date:	01/29/2019	Expiration Date:	07/2019
Prep:	Into a 200 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. **1.2 mL** of Sb (1000 mg/L) M13459 **3.2 mL** of As (1000 mg/L) M13392 **3.2 mL** of Se (1000 mg/L) M13460 **0.08 mL** of Pb (10,000 mg/L) M13615 **1.0 mL** of Tl (1000 mg/L) M13583 From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q H_2O to make the spiking solution. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (1.2 *ug/L* Sb, *3.2 ug/L* As, *3.2 ug/L* Se, *0.8 ug/L* Pb, *1 ug/L* Tl) and **2 mL** spiking solution for LOQ (2.4 *ug/L* Sb, *6.4 ug/L* As, *6.4 ug/L* Se, *1.6 ug/L* Pb, *2 ug/L* Tl)		

		Instrument:	GFAA
Standard Log #:	M13712	Standard:	LODW/LOQW Spiking Sol'n
Analyst:	MDS	Concentrations:	150 ug/L (Sb) 100 ug/L (As) 200 ug/L (Se) 45 ug/L (Pb) 40 ug/L (Tl)
Prep Date:	01/29/2019	Expiration Date:	07/2019
Prep:	Into a 100 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. **1.5 mL** of Sb (1000 mg/L) M13459 **1.0 mL** of As (1000 mg/L) M13392 **2.0 mL** of Se (1000 mg/L) M13460 **0.045 mL** of Pb (10,000 mg/L) M13615 **0.4 mL** of Tl (1000 mg/L) M13583 From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q H_2O to make the spiking solution. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (*3 ug/L* Sb, *2 ug/L* As, *4 ug/L* Se, *0.9 ug/L* Pb, *0.8 ug/L* Tl) and **2 mL** spiking solution for LOQ (*6 ug/L* Sb, *4 ug/L* As, *8 ug/L* Se, *1.8 ug/L* Pb, *1.6 ug/L* Tl)		

		Instrument:	CETAC
Standard Log #:	M13710	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	01/22/2019	Expiration Date:	01/22/2019
Prep:	Carefully mixed **3** parts HCl AB.671 with **1** part HNO_3 AB.672 in a hood.		

		Instrument:	ICP 6000
Standard Log #:	M13709	Standard:	NaK ICSAB
Analyst:	MDS	Concentrations:	500 mg/L (Al, Ca, Fe, Mg) 100 mg/L (Na, K)
Prep Date:	01/10/2019	Expiration Date:	09/30/2019
Prep:	Into a 250 mL volumetric flask, pipetted **25 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13635, **2.5 mL** of K (10,000 mg/L) M13689, **2.5 mL** of Na (10,000 mg/L) M13605 and **7.5 mL** of Fe (10,000 mg/L) M13609 and brought up to volume using Milli-Q H_2O. (2% HNO_3)		

		Instrument:	ICP 6000
Standard Log #:	M13705	Standard:	Na & K ICAL
Analyst:	MDS	Concentrations:	0.5, 1, 5, 10, 50, 100, and 200 mg/L (Na,K)
Prep Date:	01/10/2019	Expiration Date:	03/2020
Prep:	Into seven, 200 mL volumetric flasks, pipetted the following from Na (1000 µg/mL) M13607 and K (1000 µg/mL) M13606 and brought up to volume using milli-Q H_2O. (2% HNO_3) *0.5 mg/L std.* - **0.1 mL** of each *1.0 mg/L std.* - **0.2 mL** of each *5.0 mg/L std.* - **1.0 mL** of each *10 mg/L std.* - **2.0 mL** of each *50 mg/L std.* - **10 mL** of each *100 mg/L std.* -**20 mL** of each, also used for Continuing Calibration Verification *200 mg/L std.* - **40 mL** of each		

		Instrument:	ICP 6000
Standard Log #:	M13706	Standard:	Na,K MRL
Analyst:	MDS	Concentrations:	1 mg/L (Na,K)
Prep Date:	01/10/2019	Expiration Date:	03/2020
Prep:	Into a 500 mL volumetric flask, pipetted **0.5 mL** of Na (1000 µg/mL) M13607 and **0.5 mL** K (1000 µg/mL) M13606 and brought to volume with Milli-Q H_2O. (2% HNO_3)		

		Instrument:	ICP 6000
Standard Log #:	M13707	Standard:	NaK ICV
Analyst:	MDS	Concentrations:	100 mg/L (Na, K)
Prep Date:	01/10/2019	Expiration Date:	03/2020
Prep:	Into a 250 mL volumetric flask, pipetted **2.5 mL** of K (10,000 mg/L) M13689 and Na (10,000 mg/L) M13605 and brought up to volume using Milli-Q H_2O. (2% HNO_3)		

		Instrument:	ICP 6000
Standard Log #:	M13708	Standard:	Na,K ICVLL
Analyst:	MDS	Concentrations:	3 mg/L (Na,K)
Prep Date:	01/10/2019	Expiration Date:	03/2020
Prep:	Into a 500 mL volumetric flask, pipetted **0.15 mL** of Na (10,000 µg/mL) M13605 and **0.15 mL** K (10,000 µg/mL) M13689 and brought to volume with Milli-Q H_2O. (2% HNO_3)		

Standard Log #:	M13703	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	12/20/2018	Expiration Date:	12/20/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard Log #:	M13704	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	12/20/2018	Expiration Date:	12/20/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard Log #:	M13701	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	LJF		
Prep Date:	12/13/2018	Expiration Date:	06/13/2019
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13620 and **60 g** hydroxylamine sulfate M13468 and brought up to volume.		

Standard ID#:	M13696	Vendor:	CPI
Analyst:	NAH	Chemical:	Sulfur 10,000 mg/L
Date Received:	12/11/2018	Lot #:	167967-42
Expiration Date (if any):	06/20	Catalog #:	4400-10M544

Standard ID#:	M13697	Vendor:	CPI
Analyst:	NAH	Chemical:	Moybdenum 1000 mg/L
Date Received:	12/11/2018	Lot #:	169424-59
Expiration Date (if any):	06/20	Catalog #:	4400-1000343

Standard ID#:	M13698	Vendor:	CPI
Analyst:	NAH	Chemical:	Silicon 1000 mg/L
Date Received:	12/11/2018	Lot #:	175213-60
Expiration Date (if any):	06/20	Catalog #:	S4400-10005044F

Standard ID#:	M13699	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	12/11/2018	Lot #:	50-120CR
Expiration Date (if any):	12/30/2019	Catalog #:	XSPIKE-1-250

		Instrument:	CETAC
Standard Log #:	M13700	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	12/12/2018	Expiration Date:	12/12/2018
Prep:	Carefully mixed **3** parts HCl AB.668 with **1** part HNO_3 AB.669 in a hood.		

Standard ID#:	M13689	Vendor:	CPI
Analyst:	NAH	Chemical:	Potassium 10,000 mg/L
Date Received:	12/11/2018	Lot #:	169484-36
Expiration Date (if any):	06/20	Catalog #:	4400-10M11

Standard ID#:	M13690	Vendor:	CPI
Analyst:	NAH	Chemical:	Aluminum 10,000 mg/L
Date Received:	12/11/2018	Lot #:	169484-36
Expiration Date (if any):	06/20	Catalog #:	4400-10M11

Standard ID#:	M13691	Vendor:	CPI
Analyst:	NAH	Chemical:	Sodium 10,000 mg/L
Date Received:	12/11/2018	Lot #:	752887-32
Expiration Date (if any):	06/20	Catalog #:	4400-10M521

Standard ID#:	M13692	Vendor:	CPI
Analyst:	NAH	Chemical:	Calcium 10,000 mg/L
Date Received:	12/11/2018	Lot #:	855297-1
Expiration Date (if any):	06/20	Catalog #:	4400-10M91

Standard ID#:	M13693	Vendor:	CPI
Analyst:	NAH	Chemical:	Potassium 10,000 mg/L
Date Received:	12/11/2018	Lot #:	156651-78
Expiration Date (if any):	06/20	Catalog #:	4400-10M261

Standard ID#:	M13694	Vendor:	CPI
Analyst:	NAH	Chemical:	Magnesium 10,000 mg/L
Date Received:	12/11/2018	Lot #:	148250-72
Expiration Date (if any):	06/20	Catalog #:	4400-10M311

Standard ID#:	M13695	Vendor:	CPI
Analyst:	NAH	Chemical:	Iron 10,000 mg/L
Date Received:	12/11/2018	Lot #:	156651-78
Expiration Date (if any):	06/20	Catalog #:	4400-10M261

		Instrument:	GFAA
Standard Log #:	M13686	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	12/07/2018	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13687	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	12/07/2018	Expiration Date:	05/17/2018
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13688	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	12/07/2018	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13498 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

Standard Log #:	M13684	Reagent:	Potassium Permanganate Solution
Analyst:	LJF		
Prep Date:	12/04/2018	Expiration Date:	06/04/2019
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13080 and brought up to volume.		

Standard ID#:	M13683	Vendor:	Environmental Express
Analyst:	NAH	Chemical:	10000 mg/L
Date Received:	11/30/2018	Lot #:	1805105
Expiration Date (if any):	5/31/2020	Catalog #:	HP10M67-1

Standard Log #:	M13681	Instrument:	ICP
Analyst:	NAH	Standard:	LOQ 3050 B&Si Spiking Solution
Prep Date:	11/29/2018	Expiration Date:	02/2020

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
B	52	M13531	1000	2.6
Si	192	M13394	1000	9.6

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

		Instrument:	CETAC
Standard Log #:	M13682	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	11/29/2018	Expiration Date:	11/29/2018

Prep: Carefully mixed **3** parts HCl AB.668 with **1** part HNO_3 AB.669 in a hood.

Standard Log #:	M13679	Instrument:	ICP
Analyst:	NAH	Standard:	LOQ 3050 L2 Spiking Solution
Prep Date:	11/29/2018	Expiration Date:	02/2020

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
Li	14.4	M13517	1000	0.72
Sn	20	M13572	1000	1
Sr	3.2	M13586	1000	0.16
Ti	9.6	M13573	1000	0.48
W	24	xxxxxxxx	1000	1.2

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard Log #:	M13680	Instrument:	ICP
Analyst:	NAH	Standard:	LOQ 3010 B&Si Spiking Solution
Prep Date:	11/29/2018	Expiration Date:	07/2019

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
B	16	M13531	1000	0.8
Si	200	M13394	1000	10

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard Log #:	M13677	Instrument:	ICP 6500
Analyst:	NAH	Standard:	LOQ 3050 DOD Metals Spiking S
Prep Date:	11/29/2018	Expiration Date:	04/2019

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3, 5% HCl)

Analyte	MDL Conc. (ug/L)	Std. ID #	Std Conc	Volume (mL) pipetted into 1 L
Ag	4	M13458	1000	0.2
Al	9.6	M13562	**10000**	0.048
As	32	M13392	1000	1.6
Ba	2	M13457	1000	0.1
Be	1.6	M13579	1000	0.08
Ca	56	M13324	**10000**	0.28
Cd	1.6	M13570	1000	0.08
Co	9.6	M13575	1000	0.48
Cr	5.6	M13617	**10000**	0.028
Cu	16	M13618	**10000**	0.08
Fe	72	M13463	**10000**	0.36
Mg	32	M13319	**10000**	0.16
Mn	6	M13616	**10000**	0.03
Mo	9.6	M13608	1000	0.48
Ni	4.8	M13569	1000	0.24
Pb	10	M13610	**10000**	0.05
Sb	32	M13459	1000	1.6
Se	16	M13460	1000	0.8
Tl	19	M13583	1000	0.95
V	3.2	M13578	1000	0.16
Zn	12	M13610	**10000**	0.06

Of this Base standard, pipet **10 mL** into a 500 mL volumetric flask to create a working std or **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard Log #:	M13676	Instrument:	ICP 6500
Analyst:	NAH	Standard:	LOQ 3010 DOD Metals Spiking S
Prep Date:	11/29/2018	Expiration Date:	04/2019

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3, 5% HCl)

Analyte	MDL Conc. (ug/L)	Std. ID #	Std Conc	Volume (mL) pipetted into 1 L
Ag	4	M13458	1000	0.2
Al	36	M13462	**10000**	0.18
As	24	M13392	1000	1.2
Ba	1.8	M13457	1000	0.09
Be	0.6	M13579	1000	0.03
Ca	100	M13324	**10000**	0.5
Cd	2.0	M13570	1000	0.1
Co	4	M13575	1000	0.2
Cr	4	M13617	**10000**	0.02
Cu	7	M13618	**10000**	0.035
Fe	100	M13463	**10000**	0.5
Mg	40	M13319	**10000**	0.2
Mn	4	M13616	**10000**	0.02
Mo	7	M13608	1000	0.35
Ni	6	M13569	1000	0.2
Pb	4	M13610	**10000**	0.02
Sb	12	M13459	1000	0.6
Se	13	M13460	1000	0.65
Tl	20	M13583	1000	0.75
V	5	M13578	1000	0.25
Zn	10	M13610	**10000**	0.05

Of this Base standard, pipet **10 mL** into a 500 mL volumetric flask to create a working std or **1 mL** into a 50 mL digestion tube for a digested working standard.

		Instrument:	CETAC
Standard Log #:	M13675	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	11/26/2018	Expiration Date:	11/26/2018
Prep:	Carefully mixed **3** parts HCl AB.668 with **1** part HNO_3 AB.669 in a hood.		

		Instrument:	CETAC
Standard Log #:	M13671	Standard:	Hg CCV
Analyst:	LJF	Concentration:	3.0 ug/L Hg
Prep Date:	11/21/2018	Expiration Date:	01/01/2020
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*)		

		Instrument:	CETAC
Standard Log #:	M13672	Reagent:	Stannous Chloride Solution
Analyst:	LJF		
Prep Date:	11/21/2018	Expiration Date:	05/21/2019
Prep:	Into a 1 L volumetric flask, partially filled with 400 mL milli-Q H_2O, added **70 mL** hydrochloric acid AB.668 and dissolved **100 g** Stannous chloride M13648 and brought up to volume.		

Standard Log #:	M13673	Reagent:	Potassium Permanganate Solution
Analyst:	LJF		
Prep Date:	11/21/2018	Expiration Date:	05/21/2018
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13080 and brought up to volume.		

Standard Log #:	M13674	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	LJF		
Prep Date:	11/21/2018	Expiration Date:	05/21/2018
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13620 and **60 g** hydroxylamine sulfate M13468 and brought up to volume.		

		Instrument:	CETAC
Standard Log #:	M13668	Standard:	Hg ICAL
Analyst:	LJF	Concentrations:	10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L
Prep Date:	11/21/2018	Expiration Date:	01/01/2019
Prep:	Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574 *100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*) *0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*) *1 ug/L Std.* - **1 mL** Hg (*100 ug/L*) *2 ug/L Std.* - **2 mL** Hg (*100 ug/L*) *4 ug/L Std.* - **4 mL** Hg (*100 ug/L*) *5 ug/L Std.* - **5 mL** Hg (*100 ug/L*) *10 ug/L Std.* - **10 mL** Hg *(100 ug/L)*		

		Instrument:	CETAC
Standard Log #:	M13669	Standard:	Alt. Source Working Std.
Analyst:	LJF	Concentrations:	10,000 and 100 ug/L
Prep Date:	11/21/2018	Expiration Date:	04/30/2019
Prep:	Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl) *10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13444 *100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*)		

		Instrument:	CETAC
Standard Log #:	M13670	Standard:	Hg ICV/LCS
Analyst:	LJF	Concentration:	3 ug/L
Prep Date:	11/21/2018	Expiration Date:	04/30/2019
Prep:	Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13444 and brought up to volume using Milli-Q H_2O. (0.2% HNO_3, 0.2% HCl)		

		Instrument:	ICP
Standard Log #:	M13666	Standard:	As Pb ICV1
Analyst:	MDS	Concentrations:	5000 ug/L (As,Pb)
Prep Date:	11/19/2018	Expiration Date:	07/2019
Prep:	Into a 1 L volumetric flask, pipetted **5 mL** of As (1000 mg/L) M13392 and **0.5 mL** Pb (10,000 mg/L) M13615 and brought to volume with Milli-Q H_2O. (2% HNO_3, 2% HCl)		

		Instrument:	CETAC
Standard Log #:	M13667	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	11/19/2018	Expiration Date:	11/19/2018
Prep:	Carefully mixed **3** parts HCl AB.668 with **1** part HNO_3 AB.669 in a hood.		

Standard Log #:	M13664	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	11/16/2018	Expiration Date:	11/16/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard Log #:	M13665	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	11/16/2018	Expiration Date:	11/16/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

		Instrument:	CETAC
Standard Log #:	M13659	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	11/01/2018	Expiration Date:	11/01/2018
Prep:	Carefully mixed **3** parts HCl AB.668 with **1** part HNO_3 AB.669 in a hood.		

		Instrument:	ICP 6500
Standard Log #:	M13660	Standard:	ICSA
Analyst:	NAH	Concentrations:	**500,000 ug/L** Al, Ca, Fe, Mg
Prep Date:	11/01/2018	Expiration Date:	09/19
Prep:	Into a 500 mL volumetric flask, pipetted **50 mL** Interferents A Standard ((5000 mg/L Al, Ca, Mg) (2000 mg/L Fe)) M13635 and **15 mL** Fe (10000 mg/L) M13609 and brought up to volume with milli-Q H_2O.		

		Instrument:	ICP 6500
Standard Log #:	M13661	Standard:	ICV Std.
Analyst:	NAH	Concentrations:	**12,000 mg/L** Al **10,000 mg/L** Ca, Mg **5000 mg/L** Fe **2000 mg/L** As, Ba, Se, Tl **500 mg/L** B, Co, Li, Mn, Mo, Ni, Pb, Sb, Sn, Sr, Ti, V, Zn **250 mg/L** Cu **200 mg/L** Cr **50 mg/L** Ag, Be, Cd
Prep Date:	11/06/2018	Expiration Date:	10/19
Prep:	Into a 1 L volumetric flask, pipetted the following and brought up to volume with milli-Q H_2O. **10 mL** Custom Assurance Standard #18 ((200 mg/L Al, As, Ba, Se, Tl) (100 mg/L Fe) (50 mg/L Co, Mn, Ni, Pb, Sb, V, Zn) (25 mg/L Cu) (20 mg/L Cr) (5 mg/L Ag, Be, Cd)) M13637, **2 mL** Interferents A Standard ((5000 mg/L Al, Ca, Mg) (2000 mg/L Fe)) M13635, **0.5 mL** Mo (1000 mg/L) M13608, **0.5 mL** B (1000 mg/L) M13531, **0.5 mL** Sr (1000 mg/L) M13580, **0.5 mL** Li (1000 mg/L) M13577, **0.5 mL** Sn (1000 mg/L) M13572, **0.5 mL** Ti (1000 mg/L) M13573, **0.5 mL** W (1000 mg/L) Mxxxxx, **0.5 mL** Si (1000 mg/L) M13571, **0.5 mL** S (10000 mg/L) M13530, **0.5 mL** K (10000 mg/L) M13612, and **0.5 mL** K (10000 mg/L)		

		Instrument:	ICP 6000
Standard Log #:	M13657	Standard:	L2 ICV
Analyst:	MDS	Concentrations:	1000 µg/L (Li, Sn, Sr, Ti, W)
Prep Date:	11/2/2018	Expiration Date:	01/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of the following and brought up to volume using milli-Q H_2O. (0.5% HNO_3, 0.5% HCl) Li (1000 µg/mL) M13577 Sn (1000 µg/mL) M13572 Sr (1000 µg/mL) M13580 Ti (1000 µg/mL) M13573 W (1000 µg/mL) XXX		

		Instrument:	ICP 6000
Standard Log #:	M13658	Standard:	List 2 MRL/ICVLL Prep Solution
Analyst:	MDS	Concentrations:	5000 µg/L (W) 1000 µg/L (Li, Sn) 500 µg/L (Ti, Sr)
Prep Date:	11/2/2018	Expiration Date:	01/2020

Prep:

Analyte	MRL/ICVLL Conc. (µg/L)	Standard ID	Std. Conc. (µg/mL)	Volume (mL) Pipetted into 1 L	Expiration Date
Li	20/60	M13577	1000	1	02/2020
W	100/300	XXX	1000	5	XXX
Ti	10/30	M13573	1000	0.5	01/2020
Sr	10/30	M13580	1000	0.5	02/2020
Sn	20/60	M13572	1000	1	01/2020

Pipette **10 mL** into a 500 mL volumetric flask to create a working MRL std. or **1 mL** into a 50 mL digestion tube for a digested MRL standard. Pipette **30 mL** into 500 mL for a working ICVLL std. or **3 mL** into a 50 mL digestion tube for a digested ICVLL standard.

(0.5% HNO_3, 0.5% HCl)

		Instrument:	ICP
Standard Log #:	M13655	Standard:	L2 ICAL
Analyst:	MDS	Concentrations:	1 (µg/L) 10 (µg/L) 100 (µg/L) 1000 (µg/L) 10,000 (µg/L)
Prep Date:	11/2/2018	Expiration Date:	02/28/2019
Prep:	Standard Conc. (ug/L) — Pipette the following: 1 — **0.01 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.001 mL** W (1000 µg/mL) xxx into 1L = *1 µg/L* 10 — **0.10 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.01 mL** W (1000 µg/mL) xxx into 1L = *10 µg/L* 100 — **1 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.1 mL** W (1000 µg/mL) xxx into 1L = *100 µg/L* 1000 (CCV) — **2 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.2 mL** W (1000 µg/mL) xxx into 200mL = *1000 µg/L* 10000 — **20 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **2 mL** W (1000 µg/mL) xxx into 200mL = *10000 µg/L*		

		Instrument:	ICP 6000
Standard Log #:	M13656	Standard:	List 2 ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (Li, Sn, Sr, Ti, W)
Prep Date:	11/2/2018	Expiration Date:	02/28/2019
Prep:	Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13410, **6 mL** of Fe (10,000 mg/L) M13529, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M13572, **0.1 mL** of Sr (1000 µg/mL) M13580, **0.1 mL** of Ti (1000 µg/mL) M13573, and **0.1 mL** of W (1000 µg/mL) XXX and brought up to volume using Milli-Q H_2O. (0.5% HNO_3, 0.5% HCl)		

		Instrument:	GFAA
Standard Log #:	M13651	Standard:	Sb ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 µg/L (Sb)
Prep Date:	10/29/2018	Expiration Date:	10/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.01 mL** of Antimony Stock Std. (1000 µg/mL Sb) M13459 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	ICP 6000
Standard Log #:	M13652	Standard:	NaK ICV
Analyst:	MDS	Concentrations:	100 mg/L (Na, K)
Prep Date:	10/29/2018	Expiration Date:	10/2019
Prep:	Into a 250 mL volumetric flask, pipetted **2.5 mL** of K (10,000 mg/L) M13612 and Na (10,000 mg/L) M13461 and brought up to volume using Milli-Q H_2O. (2% HNO_3)		

Standard ID#:	M13653	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance std
Date Received:	10/29/2018	Lot #:	2-036AB
Expiration Date (if any):	10/30/2019	Catalog #:	XCTWI-1-500

		Instrument:	ICP 6000
Standard Log #:	M13648	Standard:	B&Si ICAL
Analyst:	MDS	Concentrations:	50, 200, 1000, 2000 and 10,000 ug/L (B, Si)
Prep Date:	10/26/2018	Expiration Date:	07/2019
Prep:	Into five, 1 L volumetric flasks, pipetted the following from stock standards B (1000 mg/L) M13390 and Si (1000 mg/L) M13528 and brought up to volume using milli-Q H_2O. *50 ug/L std.* - **0.05 mL** of each *200 ug/L std.* - **0.2 mL** of each *1000 ug/L std.* -**1.0 mL** of each, also used for Continuing Calibration Verification *2000 ug/L std.* - **2.0 mL** of each *10,000 ug/L std.* -**10 mL** of each		

		Instrument:	ICP 6000
Standard Log #:	M13649	Standard:	B&Si ICV
Analyst:	MDS	Concentrations:	1000 ug/L (B, Si)
Prep Date:	10/26/2018	Expiration Date:	07/30/2019
Prep:	Into a 1 L volumetric flask, pipetted **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, **B**, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13576 and **1.0 mL** Si (1000 mg/L) M13571 and brought up to volume using milli-Q H_2O.		

		Instrument:	ICP 6000
Standard Log #:	M13650	Standard:	B & Si ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (B,Si)
Prep Date:	10/27/2018	Expiration Date:	02/28/2019
Prep:	Into a 100 mL volumetric flask, pipetted **10 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13410 , **0.05 mL** of B (1000 µg/mL) M13390 , **0.05 mL** of Si (1000 µg/mL) M13528 and **3 mL** of Fe (10,000 mg/L) M13529 and brought up to volume using Milli-Q H_2O.		

		Instrument:	CETAC
Standard Log #:	M13645	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	10/24/2018	Expiration Date:	10/24/2018
Prep:	Carefully mixed **3** parts HCl AB.668 with **1** part HNO_3 AB.669 in a hood.		

Standard ID#:	M13646	Vendor:	Alfa Aesar
Analyst:	MDS	Chemical:	1% Nickel Nitrate Matrix Modifier
Date Received:	10/25/2018	Lot #:	8137324
Expiration Date (if any):	12/31/2019	Catalog #:	39043

Standard ID#:	M13647	Vendor:	LabChem
Analyst:	LJF	Chemical:	STANNOUS CHLORIDE
Date Received:	10/24/2018	Lot #:	H226-02
Expiration Date (if any):		Catalog #:	LC251701

Standard Log #:	M13643	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	10/24/2018	Expiration Date:	10/24/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard Log #:	M13644	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	10/24/2018	Expiration Date:	10/24/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

		Instrument:	GFAA
Standard Log #:	M13639	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	10/24/2018	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13640	Standard:	CCV Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.5 ug/L (Ag)
Prep Date:	10/24/2018	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13641	Standard:	ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 ug/L (As, Pb, Sb, Se, Tl) 1.0 ug/L (Ag)
Prep Date:	10/24/2018	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13498 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

Standard Log #:	M13642	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	10/24/2018	Expiration Date:	10/24/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard Log #:	M13638	Standard:	GFAA Instrument Check
Analyst:	MDS	Final Concentration:	10 µg/L As 6 µg/L Pb 12 µg/L Sb 20 µg/L Se 14 µg/L Tl 0.6 µg/L Ag
Prep Date:	10/23/2018	Expiration Date:	07/2019

Into six, 100 mL volumetric flasks, add the following and bring up to volume with milli-Q H_2O.

Element	Volume Pipetted (mL)	Standard Conc. (µg/mL)	Standard ID	New Conc. (µg/L)
As	1	1000	M13392	10,000
Pb	0.1	10,000	M13615	10,000
Tl	1	1000	M13583	10,000
Se	1	1000	M13460	10,000
Sb	1	1000	M13459	10,000
Ag	0.1	1000	M13458	1000

Into a 1 L volumetric flask, add the following and bring up to volume with Milli-Q H_20. (1% HNO_3)

Element	Volume Pipetted (mL)	Standard Conc. (µg/L)	New Conc. (µg/L)
As	1.0	10,000	10
Pb	0.6	10,000	6
Tl	1.4	10,000	14
Se	2.0	10,000	20
Sb	1.2	10,000	12
Ag	0.6	1000	0.6

Standard ID#:	M13634	Vendor:	CPI
Analyst:	NAH	Chemical:	Yttrium 10,0000 mg/L
Date Received:	10/18/2018	Lot #:	139448-54
Expiration Date (if any):	04/20	Catalog #:	4400-10m671

Standard ID#:	M13635	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Interference A
Date Received:	10/18/2018	Lot #:	2-230sgx
Expiration Date (if any):	09/30/2019	Catalog #:	INT-A1

		Instrument:	CETAC
Standard Log #:	M13636	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	10/18/2018	Expiration Date:	10/18/2018
Prep:	Carefully mixed **3** parts HCl AB.668 with **1** part HNO_3 AB.665 in a hood.		

Standard ID#:	M13637	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance standard
Date Received:	10/18/2018	Lot #:	50-0007CR
Expiration Date (if any):	10/30/2019	Catalog #:	XSPIKE-1-250

		Instrument:	CETAC
Standard Log #:	M13633	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	10/16/2018	Expiration Date:	10/16/2018
Prep:	Carefully mixed **3** parts HCl AB.668 with **1** part HNO_3 AB.665 in a hood.		

		Instrument:	GFAA
Standard Log #:	M13632	Standard:	LODW/LOQW Ag Spiking Sol'n
Analyst:	MDS	Concentrations:	10 ug/L (Ag)
Prep Date:	10/16/2018	Expiration Date:	10/2019
Prep:	Into a 100 mL volumetric flask, pipetted **0.1 mL** of Ag (1000mg/L) M13458 and brought to volume with Milli-Q H_2O to make a 1000 ug/L Ag std. Into a 1 L volumetric flask, pipetted **10 mL** of Ag (*1000 ug/L*) std. and brought to volume with Milli-Q H_2O. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (*0.2 ug/L*) and **2 mL** spiking solution for LOQ (*0.4 ug/L*)		

Standard Log #:	M13627	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	10/03/2018	Expiration Date:	10/03/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard Log #:	M13628	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	10/03/2018	Expiration Date:	10/03/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

MRL BASE STD M13626

Analyst NAH

Prep Date 10/01/2018

Into a 1000 mL Volumetric Flask, pipet the following:

Analyte	(ug/L)	Std ID #	Std Conc (mg/L)	Amount (mL) to pipet into 1 L	Expiration Date
Ag	20	M13458	1000	1	10/2019
Al	400	M13462	10000	2	10/2019
Ba	10	M13457	1000	0.5	10/2019
Be	4	M13579	1000	0.2	02/20
Cd	5	M13570	1000	0.25	01/20
Co	10	M13575	1000	0.5	01/20
Cr	10	M13617	10000	0.05	03/20
Cu	10	M13618	10000	0.05	03/20
Mg	500	M13319	10000	2.5	04/19
Mn	10	M13616	10000	0.05	03/20
Mo	10	M13608	1000	0.5	03/20
Ni	10	M13569	1000	0.5	03/20
Pb	10	M13610	10000	0.05	03/20
Sb	20	M13459	1000	1	03/20
V	10	M13578	1000	0.5	02/20
Zn	10	M13610	10000	0.05	02/20
K	1000	M13341	10000	5	05/19
Na	1000	M13402	10000	5	08/19
As	20	M13392	1000	1	07/19
Ca	500	M13324	10000	2.5	04/19
Fe	300	M13463	10000	1.5	10/19
Se	20	M13460	1000	1	10/19
Tl	20	M13583	1000	1	02/20
Si	100	M13394	1000	5	07/19
B	20	M13531	1000	1	07/19
Li	20	M13517	1000	1	02/20
W	50	xxxxxxx	1000	2.5	xxxxxxx
Ti	10	M13573	1000	0.5	02/20
Sr	10	M13586	1000	0.5	02/20
Sn	50	M13572	1000	2.5	02/20
S	300	M13391	10000	1.5	07/19

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Standard Log #:	M13625	Instrument:	GFAA
Analyst:	MDS	Reagent:	Pd/Mg Matrix Modifier
Prep Date:	10/03/2018	Expiration Date:	09/30/2019
Prep:	Into a 50 mL volumetric flask, partially filled with milli-Q H_2O, pipetted **15 mL** Pd Modifier M13600 and **10 mL** Mg (10,000 mg/L) M13464 and brought up to volume.		

Standard ID#:	M13618	Vendor:	CPI
Analyst:	NAH	Chemical:	Cu 10000 mg/L
Date Received:	09/20/2018	Lot #:	148796-39
Expiration Date (if any):	03/2020	Catalog #:	S4400-10M141

		Instrument:	CETAC
Standard Log #:	M13619	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	09/19/2018	Expiration Date:	09/19/2018
Prep:	Carefully mixed **3** parts HCl AB.664 with **1** part HNO_3 AB.665 in a hood.		

Standard ID#:	M13620	Vendor:	FISHER
Analyst:	LJF	Chemical:	SODIUM CHLORIDE
Date Received:	09/04/2018	Lot #:	177409
Expiration Date (if any):		Catalog #:	S271-500

Standard ID#:	M13611	Vendor:	CPI
Analyst:	NAH	Chemical:	Al 10000 mg/L
Date Received:	09/20/2018	Lot #:	169484-18
Expiration Date (if any):	03/2020	Catalog #:	4400-10M11

Standard ID#:	M13612	Vendor:	CPI
Analyst:	NAH	Chemical:	K 10000 mg/L
Date Received:	09/20/2018	Lot #:	172053-36
Expiration Date (if any):	03/2020	Catalog #:	440010M411

Standard ID#:	M13613	Vendor:	CPI
Analyst:	NAH	Chemical:	Ca 10000 mg/L
Date Received:	09/20/2018	Lot #:	855297-1
Expiration Date (if any):	03/2020	Catalog #:	4400-10M91

Standard ID#:	M13614	Vendor:	CPI
Analyst:	NAH	Chemical:	Mg 10000 mg/L
Date Received:	09/20/2018	Lot #:	148250-72
Expiration Date (if any):	03/2020	Catalog #:	4400-10M311

Standard ID#:	M13615	Vendor:	CPI
Analyst:	NAH	Chemical:	Pb 10000 mg/L
Date Received:	09/20/2018	Lot #:	168223-17
Expiration Date (if any):	03/2020	Catalog #:	4400-10M281

Standard ID#:	M13616	Vendor:	CPI
Analyst:	NAH	Chemical:	Mn 10000 mg/L
Date Received:	09/20/2018	Lot #:	167540-6
Expiration Date (if any):	03/2020	Catalog #:	S4400-10M321

Standard ID#:	M13617	Vendor:	CPI
Analyst:	NAH	Chemical:	Cr 10000 mg/L
Date Received:	09/20/2018	Lot #:	158236-7
Expiration Date (if any):	03/2020	Catalog #:	s4400-10M121

Standard ID#:	M13604	Vendor:	CPI
Analyst:	NAH	Chemical:	Sulfur 10000 mg/L
Date Received:	09/20/2018	Lot #:	167967-37
Expiration Date (if any):	03/2020	Catalog #:	4400-10M544

Standard ID#:	M13605	Vendor:	CPI
Analyst:	NAH	Chemical:	Sodium 10000 mg/L
Date Received:	09/20/2018	Lot #:	752887-3
Expiration Date (if any):	03/2020	Catalog #:	4400-10M521

Standard ID#:	M13606	Vendor:	CPI
Analyst:	NAH	Chemical:	K 1000 mg/L
Date Received:	09/20/2018	Lot #:	144467-179
Expiration Date (if any):	03/2020	Catalog #:	4400-1000411-500

Standard ID#:	M13607	Vendor:	CPI
Analyst:	NAH	Chemical:	Na 1000 mg/L
Date Received:	09/20/2018	Lot #:	158237-113
Expiration Date (if any):	03/2020	Catalog #:	4400-1000521-500

Standard ID#:	M13608	Vendor:	CPI
Analyst:	NAH	Chemical:	Mo 1000 mg/L
Date Received:	09/20/2018	Lot #:	169424-37
Expiration Date (if any):	03/2020	Catalog #:	S4400-1000343

Standard ID#:	M13609	Vendor:	CPI
Analyst:	NAH	Chemical:	Fe 10000 mg/L
Date Received:	09/20/2018	Lot #:	156651-53
Expiration Date (if any):	03/2020	Catalog #:	4400-10M261

Standard ID#:	M13610	Vendor:	CPI
Analyst:	NAH	Chemical:	Zn 10000 mg/L
Date Received:	09/20/2018	Lot #:	979871-2
Expiration Date (if any):	03/2020	Catalog #:	4400-10M681

Standard Log #:	M13601	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	09/12/2018	Expiration Date:	09/12/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard ID#:	M13602	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	09-12-2018	Lot #:	1-124AB
Expiration Date (if any):	09-30-2019	Catalog #:	XCTWI-5-500

Standard ID#:	M13600	Vendor:	Environmental Express
Analyst:	MDS	Chemical:	1% Pd Matrix Modifier
Date Received:	09/11/2018	Lot #:	1808015
Expiration Date (if any):	09/30/2019	Catalog #:	HP1900-100

Standard Log #:	M13599	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	09/08/2018	Expiration Date:	09/08/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard ID#:	M13595	Vendor:	SPEX CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Std
Date Received:	08/29/2018	Lot #:	49-151CR
Expiration Date (if any):	08/30/2019	Catalog #:	XSPIKE-1-250

		Instrument:	CETAC
Standard Log #:	M13596	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	08/30/2018	Expiration Date:	08/30/2018
Prep:	Carefully mixed **3** parts HCl AB.664 with **1** part HNO_3 AB.665 in a hood.		

		Instrument:	ICP 6000
Standard Log #:	M13597	Standard:	Na & K ICAL
Analyst:	MDS	Concentrations:	0.5, 1, 5, 10, 50, 100, and 200 mg/L (Na,K)
Prep Date:	08/30/2018	Expiration Date:	05/2019
Prep:	Into seven, 200 mL volumetric flasks, pipetted the following from Na (1000 µg/mL) M13339 and K (1000 µg/mL) M13340 and brought up to volume using milli-Q H_2O. (2% HNO_3) *0.5 mg/L std.* - **0.1 mL** of each *1.0 mg/L std.* - **0.2 mL** of each *5.0 mg/L std.* - **1.0 mL** of each *10 mg/L std.* - **2.0 mL** of each *50 mg/L std.* - **10 mL** of each *100 mg/L std.* -**20 mL** of each, also used for Continuing Calibration Verification *200 mg/L std.* - **40 mL** of each		

		Instrument:	ICP 6000
Standard Log #:	M13598	Standard:	Na,K MRL
Analyst:	MDS	Concentrations:	1 mg/L (Na,K)
Prep Date:	08/30/2018	Expiration Date:	05/2019
Prep:	Into a 500 mL volumetric flask, pipetted **0.5 mL** of Na (1000 µg/mL) M13339 and **0.5 mL** K (1000 µg/mL) M13340 and brought to volume with Milli-Q H_2O. (2% HNO_3)		

Standard Log #:	M13588	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	08/21/2018	Expiration Date:	08/21/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard Log #:	M13589	Reagent:	TCLP EXTRACTION FLUID #1
Analyst:	BMM	pH:	4.93 ± 0.05
Prep Date:	08/21/2018	Expiration Date:	08/21/2019
Prep:	Into a 20 L carboy filled with 19 L of DI H_2O, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix.		

Standard ID#:	M13590	Vendor:	AMCO Clear
Analyst:	NAH	Chemical:	turbidity std 2.0 ntu
Date Received:	08/21/2018	Lot #:	18272791
Expiration Date (if any):	08/2019	Catalog #:	8008

		Instrument:	ICP 6000
Standard Log #:	M13586	Standard:	L2 ICV
Analyst:	MDS	Concentrations:	1000 µg/L (Li, Sn, Sr, Ti, W)
Prep Date:	08/20/2018	Expiration Date:	01/2020
Prep:	Into a 1 L volumetric flask, pipetted **1.0 mL** of the following and brought up to volume using milli-Q H_2O. (0.5% HNO_3, 0.5% HCl) Li (1000 µg/mL) M13577 Sn (1000 µg/mL) M13572 Sr (1000 µg/mL) M13580 Ti (1000 µg/mL) M13573 W (1000 µg/mL) MXXX		

		Instrument:	ICP 6000
Standard Log #:	M13587	Standard:	List 2 MRL/ICVLL Prep Solution
Analyst:	MDS	Concentrations:	5000 µg/L (W) 1000 µg/L (Li, Sn) 500 µg/L (Ti, Sr)
Prep Date:	08/20/2018	Expiration Date:	01/2020

Prep:

Analyte	MRL/ICVLL Conc. (µg/L)	Standard ID	Std. Conc. (µg/mL)	Volume (mL) Pipetted into 1 L	Expiration Date
Li	20/60	M13577	1000	1	02/2020
W	100/300	XXX	1000	5	XXX
Ti	10/30	M13573	1000	0.5	01/2020
Sr	10/30	M13580	1000	0.5	02/2020
Sn	20/60	M13572	1000	1	01/2020

Pipette **10 mL** into a 500 mL volumetric flask to create a working MRL std. or **1 mL** into a 50 mL digestion tube for a digested MRL standard. Pipette **30 mL** into 500 mL for a working ICVLL std. or **3 mL** into a 50 mL digestion tube for a digested ICVLL standard.

(0.5% HNO_3, 0.5% HCl)

		Instrument:	ICP
Standard Log #:	M13584	Standard:	L2 ICAL
Analyst:	MDS	Concentrations:	1 (µg/L) 10 (µg/L) 100 (µg/L) 1000 (µg/L) 10,000 (µg/L)
Prep Date:	08/20/2018	Expiration Date:	07/30/2019
Prep:	Standard Conc. (ug/L)	Pipette the following:	
	1	**0.01 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.001 mL** W (1000 µg/mL) MXXX into 1L = *1 µg/L*	
	10	**0.10 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.01 mL** W (1000 µg/mL) MXXX into 1L = *10 µg/L*	
	100	**1 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.1 mL** W (1000 µg/mL) MXXX into 1L = *100 µg/L*	
	1000 (CCV)	**2 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.2 mL** W (1000 µg/mL) MXXX into 200mL = *1000 µg/L*	
	10000	**20 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **2 mL** W (1000 µg/mL) MXXX into 200mL = *10000 µg/L*	

		Instrument:	ICP 6000
Standard Log #:	M13585	Standard:	List 2 ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (Li, Sn, Sr, Ti, W)
Prep Date:	08/20/2018	Expiration Date:	
Prep:	Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13410, **6 mL** of Fe (10,000 mg/L) M13463, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M13572, **0.1 mL** of Sr (1000 µg/mL) M13580, **0.1 mL** of Ti (1000 µg/mL) M13573, and **0.1 mL** of W (1000 µg/mL) MXXX and brought up to volume using Milli-Q H_2O. (0.5% HNO_3, 0.5% HCl)		

Standard ID#:	M13577	Vendor:	CPI
Analyst:	NAH	Chemical:	Li 1000 mg/L
Date Received:	08/17/2018	Lot #:	751942-25
Expiration Date (if any):	02/2020	Catalog #:	S4400-1000291

Standard ID#:	M13578	Vendor:	CPI
Analyst:	NAH	Chemical:	V 1000 mg/L
Date Received:	08/17/2018	Lot #:	152207-68
Expiration Date (if any):	02/2020	Catalog #:	S4400-1000651

Standard ID#:	M13579	Vendor:	CPI
Analyst:	NAH	Chemical:	Be 1000 mg/L
Date Received:	08/17/2018	Lot #:	660981-5
Expiration Date (if any):	02/2020	Catalog #:	S4400-100051

Standard ID#:	M13580	Vendor:	CPI
Analyst:	NAH	Chemical:	Sr 1000 mg/L
Date Received:	08/17/2018	Lot #:	168227-29
Expiration Date (if any):	02/2020	Catalog #:	S4400-1000531

Standard ID#:	M13581	Vendor:	CPI
Analyst:	NAH	Chemical:	K 10000 mg/L
Date Received:	08/17/2018	Lot #:	172053-36
Expiration Date (if any):	02/2020	Catalog #:	4400-10411

Standard ID#:	M13582	Vendor:	Environmental Express
Analyst:	NAH	Chemical:	Y 10000 mg/L
Date Received:	08/17/2018	Lot #:	1805105
Expiration Date (if any):	02/2020	Catalog #:	HP10M67-1

Standard ID#:	M13583	Vendor:	CPI
Analyst:	NAH	Chemical:	Tl 1000 mg/L
Date Received:	08/17/2018	Lot #:	148983-70
Expiration Date (if any):	02/2020	Catalog #:	S4400-1000581

Standard ID#:	M13576	Vendor:	Spex Certiprep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	08/04/2018	Lot #:	49-045CR
Expiration Date (if any):	07/30/2019	Catalog #:	XCTWI-5-500

Standard ID#:	M13569	Vendor:	CPI
Analyst:	NAH	Chemical:	Ni 1000 mg/L
Date Received:	07/27/2018	Lot #:	166665-86
Expiration Date (if any):	01/2020	Catalog #:	s4400-1000361

Standard ID#:	M13570	Vendor:	CPI
Analyst:	NAH	Chemical:	Cd 1000 mg/L
Date Received:	07/27/2018	Lot #:	160499-32
Expiration Date (if any):	01/2020	Catalog #:	s4400-100081

Standard ID#:	M13571	Vendor:	CPI
Analyst:	NAH	Chemical:	Si 1000 mg/L
Date Received:	07/27/2018	Lot #:	175213-28
Expiration Date (if any):	01/2020	Catalog #:	s4400-1000504F

Standard ID#:	M13572	Vendor:	CPI
Analyst:	NAH	Chemical:	Sn 1000 mg/L
Date Received:	07/27/2018	Lot #:	144466-74
Expiration Date (if any):	01/2020	Catalog #:	s4400-1000613

Standard ID#:	M13573	Vendor:	CPI
Analyst:	NAH	Chemical:	Ti 1000 mg/L
Date Received:	07/27/2018	Lot #:	152616-55
Expiration Date (if any):	01/2020	Catalog #:	s4400-1000623

Standard ID#:	M13574	Vendor:	CPI
Analyst:	NAH	Chemical:	Hg 1000 mg/L
Date Received:	07/27/2018	Lot #:	175191-22
Expiration Date (if any):	01/2020	Catalog #:	s4400-1000331

Standard ID#:	M13575	Vendor:	CPI
Analyst:	NAH	Chemical:	Co 1000 mg/L
Date Received:	07/27/2018	Lot #:	161693-10
Expiration Date (if any):	01/2020	Catalog #:	s4400-1000131

Standard Log #:	M13563	Instrument:	ICP
Analyst:	LJF	Standard:	LOQ 3050 S Spiking Solution
Prep Date:	07/19/2018	Expiration Date:	10/2019

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
S	240	M13466	10000	1.2

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard ID#:	M13557	Vendor:	Alfa Aesar Specpure
Analyst:	MDS	Chemical:	1% Nickel Nitrate Matrix Modifier
Date Received:	07/17/2018	Lot #:	8137324
Expiration Date (if any):	12/31/2019	Catalog #:	39043

		Instrument:	ICP 6000
Standard Log #:	M13558	Standard:	B&Si ICV
Analyst:	MDS	Concentrations:	1000 ug/L (B, Si)
Prep Date:	07/17/2018	Expiration Date:	05/2019
Prep:	Into a 1 L volumetric flask, pipetted **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, **B**, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13518 and **1.0 mL** Si (1000 mg/L) M13338 and brought up to volume using milli-Q H_2O.		

Standard Log #:	M13559	Reagent:	Potassium Permanganate Solution
Analyst:	LJF		
Prep Date:	07/17/2018	Expiration Date:	01/17/2019
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium permanganate M13559 and brought up to volume.		

Standard Log #:	M13554	Instrument:	ICP
Analyst:	LJF	Standard:	LOQ 3010 B&Si Spiking Solution
Prep Date:	07/13/2018	Expiration Date:	05/2019

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
B	16	M13390	1000	0.8
Si	200	M13338	1000	10

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

Standard Log #:	M13555	Instrument:	ICP
Analyst:	LJF	Standard:	LOQ 3010 S Spiking Solution
Prep Date:	07/13/2018	Expiration Date:	10/2019

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
S	200	M13466	10000	1.0

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

		Instrument:	GFAA
Standard Log #:	M13553	Standard:	Sb ICV/LCS Std.
Analyst:	MDS	Concentrations:	10 µg/L (Sb)
Prep Date:	07/12/2018	Expiration Date:	10/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.01 mL** of Antimony Stock Std. (1000 µg/mL Sb) M13459 and brought to volume with Milli-Q DI H_2O. (1% HNO_3)		

		Instrument:	GFAA
Standard Log #:	M13547	Standard:	LODW/LOQW Ag Spiking Sol'n
Analyst:	MDS	Concentrations:	10 ug/L (Ag)
Prep Date:	07/09/2018	Expiration Date:	10/2019
Prep:	Into a 100 mL volumetric flask, pipetted **0.1 mL** of Ag (1000mg/L) M13458 and brought to volume with Milli-Q H_2O to make a 1000 ug/L Ag std. Into a 1 L volumetric flask, pipetted **10 mL** of Ag (*1000 ug/L*) std. and brought to volume with Milli-Q H_2O. (1% HNO_3) *Pipette **1 mL** spiking solution into 50 mL H_2O for LOD (*0.2 ug/L*) and **2 mL** spiking solution for LOQ (*0.4 ug/L*)		

Standard Log #:	M13548	Reagent:	NaCl Hydroxylamine Sulfate
Analyst:	LJF		
Prep Date:	07/10/2018	Expiration Date:	01/10/2019
Prep:	Into a 500 mL volumetric flask, partially filled with milli-Q H_2O, dissolved **60 g** NaCl M13226 and **60 g** hydroxylamine sulfate M13468 and brought up to volume.		

		Instrument:	GFAA
Standard Log #:	M13549	Standard:	Calibration Std.
Analyst:	MDS	Concentrations:	25 ug/L (As, Pb, Sb, Se, Tl) 3.75 ug/L (Ag)
Prep Date:	07/10/2018	Expiration Date:	05/17/2019
Prep:	Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q H_2O. (1% HNO_3)		

Standard Log #:	M13534	Standard:	GFAA Instrument Check
Analyst:	MDS	Final Concentration:	10 µg/L As 6 µg/L Pb 12 µg/L Sb 20 µg/L Se 14 µg/L Tl 0.6 µg/L Ag
Prep Date:	07/02/2018	Expiration Date:	09/16/2018

Into six, 100 mL volumetric flasks, add the following and bring up to volume with milli-Q H_2O.

Element	Volume Pipetted (mL)	Standard Conc. (µg/mL)	Standard ID	New Conc. (µg/L)
As	1	1000	M13392	10,000
Pb	0.1	10,000	M13169	10,000
Tl	1	1000	M13124	10,000
Se	1	1000	M13460	10,000
Sb	1	1000	M13459	10,000
Ag	0.1	1000	M13458	1000

Into a 1 L volumetric flask, add the following and bring up to volume with Milli-Q H_20. (1% HNO_3)

Element	Volume Pipetted (mL)	Standard Conc. (µg/L)	New Conc. (µg/L)
As	1.0	10,000	10
Pb	0.6	10,000	6
Tl	1.4	10,000	14
Se	2.0	10,000	20
Sb	1.2	10,000	12
Ag	0.6	1000	0.6

Standard ID#:	M13535	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	07/02/2018	Lot #:	48-179CR
Expiration Date (if any):	06/30/2019	Catalog #:	XSPIKE-1-250

Standard ID#:	M13526	Vendor:	CPI
Analyst:	NAH	Chemical:	YTTRIUM 10,000 ug/mL
Date Received:	06/22/2018	Lot #:	138448-54
Expiration Date (if any):	12/2019	Catalog #:	4400-10M671

Standard ID#:	M13527	Vendor:	CPI
Analyst:	NAH	Chemical:	POTASSIUM 10,000
Date Received:	06/22/2018	Lot #:	172053-32
Expiration Date (if any):	12/2019	Catalog #:	4400-104411

Standard ID#:	M13528	Vendor:	CPI
Analyst:	NAH	Chemical:	Si 1000 ug/mL
Date Received:	06/22/2018	Lot #:	142610-115
Expiration Date (if any):	12/2019	Catalog #:	S4400-1000504F

Standard ID#:	M13529	Vendor:	CPI
Analyst:	NAH	Chemical:	Fe 10,000 ug/mL
Date Received:	06/22/2018	Lot #:	156651-42
Expiration Date (if any):	12/2019	Catalog #:	4400-10M261

Standard ID#:	M13530	Vendor:	CPI
Analyst:	NAH	Chemical:	SULFUR 10,000ug/mL
Date Received:	06/22/2018	Lot #:	129880-46
Expiration Date (if any):	12/2019	Catalog #:	4400-10M544

Standard ID#:	M13531	Vendor:	CPI
Analyst:	NAH	Chemical:	BORON 1000 ug/mL
Date Received:	06/22/2018	Lot #:	158372-91
Expiration Date (if any):	12/2019	Catalog #:	S4400-100074

Standard ID#:	M13532	Vendor:	CPI
Analyst:	NAH	Chemical:	CUSTOM ASSURANCE STANDARD
Date Received:	06/22/2018	Lot #:	48-146CR
Expiration Date (if any):	06/30/2019	Catalog #:	XCTWI-1-500

Standard ID#:	M13520	Vendor:	FRISCOLYT
Analyst:	NAH	Chemical:	Electrolyte Solution
Date Received:	06/13/2018	Lot #:	1DO71H
Expiration Date (if any):	12/03/2021	Catalog #:	51 340 053

		Instrument:	ICP
Standard Log #:	M13521	Standard:	As Pb ICV1
Analyst:	MDS	Concentrations:	5000 ug/L (As,Pb)
Prep Date:	06/13/2018	Expiration Date:	10/20/2018
Prep:	Into a 1 L volumetric flask, pipetted **0.5 mL** of As (10,000 mg/L) M13392 and **0.5 mL** Pb (10,000 mg/L) M13169 and brought to volume with Milli-Q H_2O. (2% HNO_3, 2% HCl)		

Standard ID#:	M13518	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	06/11/2018	Lot #:	48-060CR
Expiration Date (if any):	06/30/2019	Catalog #:	XCTWI-5-500

		Instrument:	ICP 6500
Standard Log #:	M13519	Standard:	ICAL
Analyst:	NAH	Concentrations:	0.25, 0.5, 1, 5, 10, 20, 50, 100, 1000, 10,000, 100k, 100,000, 500,000 and 1000k (ug/L)
Prep Date:	06/11/2018	Expiration Date:	06/30/2019

Prep:

Using 1 L volumetric flasks, pipetted the following and brought up to volume using milli-Q H_2O.
(5% HNO_3, 5% HCl)
1000 ug/L Std. - **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13518, **10 mL** of Custom Assurance Std. #3 (100 mg/L Ag, Be, Cd) M13506 and **1 mL** of Si (1000 mg/L) M13394 and 1 mL M13203 Ce
0.25 ug/L Std. - **0.25 mL** of the 1000 ug/L Std.
0.5 ug/L Std. - **0.5 mL** of the 1000 ug/L Std.
1 ug/L Std. - **1 mL** of the 1000 ug/L Std.
5 ug/L Std. - **5 mL** of the 1000 ug/L Std.
10 ug/L Std. - **10 mL** of the 1000 ug/L Std.
20 ug/L Std. - **20 mL** of the 1000 ug/L Std.
50 ug/L Std. - **50 mL** of the 1000 ug/L Std.
100 ug/L Std. - **1 mL** of Custom Assurance Std. (CAS) #23 and **1 mL** of CAS #3
10,000 ug/L Std. - **100 mL** CAS #23, **100 mL** CAS #3 and **1 mL** of K (10,000 mg/L) M13465.
100k ug/L Std. - **10 mL** of Cu (10,000 mg/L) M13166, **10 mL** of Mn (10,000 mg/L) M13167, **10 mL** of Cr (10,000 mg/L) M13165, **10 mL** Pb (10,000 mg/L) M13169, **10 mL** of Zn (10,000 mg/L) M13168 and **10 mL** of Na (10,000 mg/L) M13461.
100,000 ug/L Std. - **10 mL** of Mg (10,000 mg/L) M13319, **10 mL** of Fe (10,000 mg/L) M13463, **10 mL** of Ca (10,000 mg/L) M13467 and **10 mL** Al (10,000 mg/L) M13462.
500,000 ug/L Std. - **50 mL** of Mg (10,000 mg/L), **50 mL** of Fe (10,000 mg/L), **50 mL** of Ca (10,000 mg/L) and **50 mL** of Al (10,000 mg/L)
1000k ug/L Std. - **100 mL** of Mg (10,000 mg/L), **100 mL** of Fe (10,000 mg/L), **100 mL** of Ca (10,000 mg/L) and **100 mL** of Al (10,000 mg/L)

		Instrument:	CETAC
Standard Log #:	M13510	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	06/01/2018	Expiration Date:	06/01/2018
Prep:	Carefully mixed **3** parts HCl AB.656 with **1** part HNO_3 AB.655 in a hood.		

Standard ID#:	M13511	Vendor:	FISHER
Analyst:	LJF	Chemical:	SODIUM CHLORIDE
Date Received:	06/04/2018	Lot #:	176877
Expiration Date (if any):		Catalog #:	S271-500

Standard ID#:	M13506	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	05/22/2018	Lot #:	48-042CR
Expiration Date (if any):	05/30/2019	Catalog #:	XCTWI-4-500

Standard ID#:	M13507	Vendor:	Spex CertiPrep
Analyst:	NAH	Chemical:	Custom Assurance Standard
Date Received:	05/22/2018	Lot #:	48-041CR
Expiration Date (if any):	05/30/2019	Catalog #:	XSPIKE-1-250

Standard ID#:	M13508	Vendor:	RESTEK
Analyst:	NAH	Chemical:	Diatomaceous earth (Celite 566)
Date Received:	05/22/2018	Lot #:	811030-BG
Expiration Date (if any):	N/A	Catalog #:	26033

Standard ID#:	M13495	Vendor:	LabChem
Analyst:	LJF	Chemical:	STANNOUS CHLORIDE
Date Received:	05/15/2018	Lot #:	H052-17
Expiration Date (if any):		Catalog #:	LC251701

		Instrument:	ICP 6000
Standard Log #:	M13485	Standard:	Na & K ICAL
Analyst:	MDS	Concentrations:	0.5, 1, 5, 10, 50, 100, and 200 mg/L (Na,K)
Prep Date:	05/07/2018	Expiration Date:	05/2019
Prep:	Into seven, 200 mL volumetric flasks, pipetted the following from Na (1000 µg/mL) M13339 and K (1000 µg/mL) M13340 and brought up to volume using milli-Q H_2O. (2% HNO_3) *0.5 mg/L std.* - **0.1 mL** of each *1.0 mg/L std.* - **0.2 mL** of each *5.0 mg/L std.* - **1.0 mL** of each *10 mg/L std.* - **2.0 mL** of each *50 mg/L std.* - **10 mL** of each *100 mg/L std.* -**20 mL** of each, also used for Continuing Calibration Verification *200 mg/L std.* - **40 mL** of each		

		Instrument:	ICP 6000
Standard Log #:	M13486	Standard:	NaK ICV
Analyst:	MDS	Concentrations:	100 mg/L (Na, K)
Prep Date:	05/07/2018	Expiration Date:	08/2019
Prep:	Into a 250 mL volumetric flask, pipetted **2.5 mL** of K (10,000 mg/L) M13400 and Na (10,000 mg/L) M13402 and brought up to volume using Milli-Q H_2O. (2% HNO_3)		

		Instrument:	ICP 6000
Standard Log #:	M13487	Standard:	Na,K ICVLL
Analyst:	MDS	Concentrations:	3 mg/L (Na,K)
Prep Date:	05/07/2018	Expiration Date:	08/2019
Prep:	Into a 500 mL volumetric flask, pipetted **0.15 mL** of Na (10,000 µg/mL) M13402 and **0.15 mL** K (10,000 µg/mL) M13400 and brought to volume with Milli-Q H_2O. (2% HNO_3)		

		Instrument:	ICP 6000
Standard Log #:	M13488	Standard:	Na,K MRL
Analyst:	MDS	Concentrations:	1 mg/L (Na,K)
Prep Date:	05/07/2018	Expiration Date:	05/2019
Prep:	Into a 500 mL volumetric flask, pipetted **0.5 mL** of Na (1000 µg/mL) M13339 and **0.5 mL** K (1000 µg/mL) M13340 and brought to volume with Milli-Q H_2O. (2% HNO_3)		

Standard ID#:	M13484	Vendor:	Environmental Express
Analyst:	NAH	Chemical:	Y 10,000 mg/L
Date Received:	05/03/2018	Lot #:	1805105
Expiration Date (if any):	10/31/2019	Catalog #:	HP10M67-1

		Instrument:	ICP 6000
Standard Log #:	M13471	Standard:	B&Si ICAL
Analyst:	MDS	Concentrations:	50, 200, 1000, 2000 and 10,000 ug/L (B, Si)
Prep Date:	04/26/2018	Expiration Date:	07/2019
Prep:	Into five, 1 L volumetric flasks, pipetted the following from stock standards B (1000 mg/L) M13390 and Si (1000 mg/L) M13394 and brought up to volume using milli-Q H_2O. *50 ug/L std.* - **0.05 mL** of each *200 ug/L std.* - **0.2 mL** of each *1000 ug/L std.* -**1.0 mL** of each, also used for Continuing Calibration Verification *2000 ug/L std.* - **2.0 mL** of each *10,000 ug/L std.* -**10 mL** of each		

		Instrument:	ICP 6000
Standard Log #:	M13472	Standard:	B&Si ICV
Analyst:	MDS	Concentrations:	1000 ug/L (B, Si)
Prep Date:	04/26/2018	Expiration Date:	07/02/2018
Prep:	Into a 1 L volumetric flask, pipetted **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, **B**, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13364 and **1.0 mL** Si (1000 mg/L) M13085 and brought up to volume using milli-Q H_2O.		

		Instrument:	ICP 6000
Standard Log #:	M13473	Standard:	B & Si ICSAB
Analyst:	MDS	Concentrations:	500,000 µg/L (Al, Ca, Fe, Mg) 500 µg/L (B,Si)
Prep Date:	04/26/2018	Expiration Date:	10/30/2018
Prep:	Into a 100 mL volumetric flask, pipetted **10 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13305 , **0.05 mL** of B (1000 µg/mL) M13390 , **0.05 mL** of Si (1000 µg/mL) M13394 and **3 mL** of Fe (10,000 mg/L) M13321 and brought up to volume using Milli-Q H_2O.		

Standard ID#:	M13467	Vendor:	CPI
Analyst:	NAH	Chemical:	Ca 10000 mg/L
Date Received:	04/20/2018	Lot #:	147497-47
Expiration Date (if any):	10/2019	Catalog #:	4400-10M91

Standard ID#:	M13468	Vendor:	FISHER
Analyst:	LJF	Chemical:	HYDROXYLAMINE SULFATE
Date Received:	04/24/2018	Lot #:	174236
Expiration Date (if any):		Catalog #:	H331-500

		Instrument:	CETAC
Standard Log #:	M13469	Reagent:	Hg Aqua Regia
Analyst:	LJF		
Prep Date:	04/24/2018	Expiration Date:	04/24/2018
Prep:	Carefully mixed **3** parts HCl AB.656 with **1** part HNO_3 AB.655 in a hood.		

Standard ID#:	M13462	Vendor:	CPI
Analyst:	NAH	Chemical:	Al 10000 mg/L
Date Received:	04/20/2018	Lot #:	158058-23
Expiration Date (if any):	10/2019	Catalog #:	4400-10M11

Standard ID#:	M13463	Vendor:	CPI
Analyst:	NAH	Chemical:	Fe 10000 mg/L
Date Received:	04/20/2018	Lot #:	156651-18
Expiration Date (if any):	10/2019	Catalog #:	4400-10M261

Standard ID#:	M13464	Vendor:	CPI
Analyst:	NAH	Chemical:	Mg 10000 mg/L
Date Received:	04/20/2018	Lot #:	148250-67
Expiration Date (if any):	10/2019	Catalog #:	4400-10M311

Standard ID#:	M13465	Vendor:	CPI
Analyst:	NAH	Chemical:	K 10000 mg/L
Date Received:	04/20/2018	Lot #:	172053-2
Expiration Date (if any):	10/2019	Catalog #:	4400-10M411

Standard ID#:	M13466	Vendor:	CPI
Analyst:	NAH	Chemical:	S 10000 mg/L
Date Received:	04/20/2018	Lot #:	129880-37
Expiration Date (if any):	10/2019	Catalog #:	4400-10M544

Standard ID#:	M13457	Vendor:	CPI
Analyst:	NAH	Chemical:	Barium 1000 mg/L
Date Received:	04/20/2018	Lot #:	158364-3
Expiration Date (if any):	10/2019	Catalog #:	S4400-100041

Standard ID#:	M13458	Vendor:	CPI
Analyst:	NAH	Chemical:	Ag 1000 mg/L
Date Received:	04/20/2018	Lot #:	162712-9
Expiration Date (if any):	10/2019	Catalog #:	S4400-1000511

Standard ID#:	M13459	Vendor:	CPI
Analyst:	NAH	Chemical:	Sb 1000 mg/L
Date Received:	04/20/2018	Lot #:	153992-1
Expiration Date (if any):	10/2019	Catalog #:	S4400-100023

Standard ID#:	M13460	Vendor:	CPI
Analyst:	NAH	Chemical:	Se 1000 mg/L
Date Received:	04/20/2018	Lot #:	154366-16
Expiration Date (if any):	10/2019	Catalog #:	S4400-1000491

Standard ID#:	M13461	Vendor:	CPI
Analyst:	NAH	Chemical:	Na 10000 mg/L
Date Received:	04/20/2018	Lot #:	107139-108
Expiration Date (if any):	10/2019	Catalog #:	4400-10M521

Standard Log #:	M13445	Reagent:	Potassium Persulfate Solution
Analyst:	LJF		
Prep Date:	04/19/2018	Expiration Date:	10/19/2018
Prep:	Into a 1 L volumetric flask, partially filled with milli-Q H_2O, dissolved **50 g** potassium persulfate M12652 and brought up to volume.		

		Instrument:	Hach 2100 turbidity meter
Standard Log #:	M13446	Standard:	Turbity ICAL
Analyst:	NAH	Concentrations:	20, 100, 200 ntu
Prep Date:	04/19/2018	Expiration Date:	12/2019
Prep:	Using the hach vials , pipet the following: *20 ntu Std.* = **1 ml** M13436 and 9 mls DI H20. *100 ntu Std.* = **5 mls** M13436 and 5 mls DI H20. *200 ntu Std.* = ***10 mls*** M13436 *and* 0 mls DI H20.		

LPMT1-04
Metals Reagents and Standards
Prep Logbook
Created: 12/19/17

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Author: nhenn on: 4/19/2018 11:15:48 AM
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		Instrument:	ICP 6000
Standard Log #:	M13438	Standard:	Sulfur ICAL
Analyst:	MDS	Concentrations:	1000 10,000 100,000 1000K µg/L (S)
Prep Date:	04/11/2018	Expiration Date:	07/2019
Prep:	Into four, 100 mL volumetric flasks, pipetted the following from stock standard S (10,000 µg/mL) M13391 and brought up to volume using milli-Q H_2O. *1000 ug/L std.* - **0.01 mL** *10,000 ug/L std.* - **0.1 mL** *100,000 ug/L std.* -**1.0 mL**, also used as the CCV *1000K ug/L std.* - **10 mL**		

		Instrument:	ICP 6000
Standard Log #:	M13439	Standard:	Sulfur ICV
Analyst:	MDS	Concentrations:	100,000 µg/L (S)
Prep Date:	04/11/2018	Expiration Date:	01/19/2019
Prep:	Into a 100 mL volumetric flask, pipetted **1.0 mL** of S (10,000 µg/mL) M13280 and brought up to volume using Milli-Q H_2O.		

Standard Log #:	M13437	Instrument:	ICP
Analyst:	NAH	Standard:	LOQ 3050 B&Si Spiking Solution
Prep Date:	04/10/2018	Expiration Date:	07/19

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q H_2O. (5% HNO_3)

Analyte	Final MDL Conc. (ug/L)	Std. ID #	Std. Conc. (mg/L)	Volume (mL) pipetted
B	52	M13390	1000	2.6
Si	192	M13394	1000	9.6

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

Content below was appended to locked page by mszymanski on 4/19/2018 12:20:57 PM

Standard ID#:	M13436a	Vendor:	HACH
Analyst:	NAH	Chemical:	StablCal 200 NTU
Date Received:	04/10/2018	Lot #:	A7354
Expiration Date (if any):	12/2019	Catalog #:	2660449

Standard ID#:	M13400	Vendor:	CPI
Analyst:	NAH	Chemical:	K 10,000 ug/mL
Date Received:	02/15/2018	Lot #:	106958-116
Expiration Date (if any):	08/2019	Catalog #:	4400-10M411

Standard ID#:	M13401	Vendor:	CPI
Analyst:	NAH	Chemical:	Y 10,000 ug/mL
Date Received:	02/15/2018	Lot #:	139448-54
Expiration Date (if any):	08/2019	Catalog #:	4400-10M671

Standard ID#:	M13402	Vendor:	CPI
Analyst:	NAH	Chemical:	Na 10,000 ug/mL
Date Received:	02/15/2018	Lot #:	107139-126
Expiration Date (if any):	08/2019	Catalog #:	4400-10M521

Standard Log #:	M13388	Reagent:	SPLP EXTRACTION FLUID EAST #
Analyst:	BMM	pH:	4.20 ± 0.05
Prep Date:	01/23/2018	Expiration Date:	01/23/2019
Prep:	Into a 20 L carboy filled with DI H_2O, adjust pH to 4.20 ± 0.05 using 60/40 SPLP extraction fluid acid mixture M12457 .		

Standard Log #:	M13389	Reagent:	SPLP EXTRACTION FLUID WEST #
Analyst:	BMM	pH:	5.00 ± 0.05
Prep Date:	01/23/2018	Expiration Date:	01/23/2019
Prep:	Into a 20 L carboy filled with DI H_2O, adjust pH to 5.00 ± 0.05 using 60/40 SPLP extraction fluid acid mixture M12457 .		

Standard ID#:	M13390	Vendor:	CPI
Analyst:	NAH	Chemical:	Boron 1000 ug/mL
Date Received:	01/23/2018	Lot #:	158372-29
Expiration Date (if any):	07/2019	Catalog #:	S4400-100074

Standard ID#:	M13391	Vendor:	CPI
Analyst:	NAH	Chemical:	Sulfur 10000 ug/mL
Date Received:	01/23/2018	Lot #:	129880-28
Expiration Date (if any):	07/2019	Catalog #:	4400-10M544

Standard ID#:	M13392	Vendor:	CPI
Analyst:	NAH	Chemical:	Arsenic 1000 ug/mL
Date Received:	01/23/2018	Lot #:	143356-61
Expiration Date (if any):	07/2019	Catalog #:	S4400-100031

Standard ID#:	M13393	Vendor:	CPI
Analyst:	NAH	Chemical:	Molybdenum 1000 ug/mL
Date Received:	01/23/2018	Lot #:	134169R-102
Expiration Date (if any):	07/2019	Catalog #:	S4400-1000343

Standard ID#:	M13394	Vendor:	CPI
Analyst:	NAH	Chemical:	Silicon 1000 ug/mL
Date Received:	01/23/2018	Lot #:	142610-58
Expiration Date (if any):	07/2019	Catalog #:	S4400-1000504F

Standard ID#:	M13350	Vendor:	Environmental Express
Analyst:	NAH	Chemical:	Yttrium 10000 mg/L
Date Received:	12/12/2017	Lot #:	1729606
Expiration Date (if any):	06//2019	Catalog #:	10M67-1

Standard ID#:	M13226	Vendor:	FISHER
Analyst:	LJF	Chemical:	SODIUM CHLORIDE
Date Received:	07/21/2017	Lot #:	170229
Expiration Date (if any):		Catalog #:	S271-500

Standard ID#:	M13199	Vendor:	National Institute of Standards and Te
Analyst:	NAH	Chemical:	SRM Montana I soil
Date Received:	05/15/2017	Lot #:	2710a
Expiration Date (if any):		Catalog #:	

Standard ID#:	M13200	Vendor:	National Institute of Standards and Te
Analyst:	NAH	Chemical:	SRM Montana II soil
Date Received:	05/15/2017	Lot #:	2711a
Expiration Date (if any):		Catalog #:	

Standard ID#:	M13186	Vendor:	FISHER
Analyst:	LJF	Chemical:	HYDROXYLAMINE SULFATE
Date Received:	05/22/2017	Lot #:	166161
Expiration Date (if any):		Catalog #:	H331-500

Standard ID#:	M13187	Vendor:	Environmental Express
Analyst:	NAH	Chemical:	Yttrium 10,000 ug/mL
Date Received:	05/22/2017	Lot #:	1705408
Expiration Date (if any):	11/16/2018	Catalog #:	HP10M67-1

Standard ID#:	M13080	Vendor:	FISHER
Analyst:	LJF	Chemical:	POTASSIUM PERMANGANATE
Date Received:	01/30/2017	Lot #:	164080
Expiration Date (if any):		Catalog #:	P279-212

Standard ID#:	M13059	Vendor:	ACROS ORGANICS
Analyst:	LJF	Chemical:	POTASSIUM PERSULFATE
Date Received:	12/19/2016	Lot #:	A0375670
Expiration Date (if any):		Catalog #:	424185000

Standard ID#:	M13024	Vendor:	METTLER TOLEDO
Analyst:	LJF	Chemical:	FRISCOLYT
Date Received:	11/01/2016	Lot #:	1B167D
Expiration Date (if any):		Catalog #:	51340053

INORGANIC
CLP FORMS
DOCUMENTS

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Sample Description

1

46ADPT-TCLP

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	86.0	Lab Sample ID:	356219
Analytical Method:	SW 846 Ch. 7	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166589	Analysis Date/Time	11/14/2019 09:00
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
57-12-5	Cyanide, Reactive	20	U	20	20	20	20

CT LABORATORIES
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INORGANIC ANALYSIS DATA SHEET

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	86.0	Lab Sample ID:	356219
Analytical Method:	EPA 9045D	Date Received:	11/11/2019
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166453	Analysis Date/Time	11/11/2019 13:30
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	7.37					

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INORGANIC ANALYSIS DATA SHEET

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	86.0	Lab Sample ID:	356219
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	86.0		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	86.0	Lab Sample ID:	356219
Analytical Method:	ASTM D4978	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166583	Analysis Date/Time	11/13/2019 9:00
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
18496-25-8	Sulfide Reactive	100	U	100	100	100	100

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-001 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	80.0	Lab Sample ID:	356176
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	80.0		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-001 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	83.7	Lab Sample ID:	356177
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.7		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-001 (38-39)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	81.3	Lab Sample ID:	356178
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.3		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-002 (26-27)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	93.2	Lab Sample ID:	356170
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	93.2		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-002 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	85.6	Lab Sample ID:	356171
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	85.6		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-002 (40-41)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	82.1	Lab Sample ID:	356172
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.1		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-003 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	79.0	Lab Sample ID:	356173
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	79.0		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-003 (35-36)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	84.3	Lab Sample ID:	356174
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.3		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-003 (39-40)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	82.3	Lab Sample ID:	356175
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.3		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-004 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	84.0	Lab Sample ID:	356194
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.0		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-004 (30-31)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	85.7	Lab Sample ID:	356195
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	85.7		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-004 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	83.8	Lab Sample ID:	356196
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.8		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-005 (24-25)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	81.2	Lab Sample ID:	356187
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.2		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-005 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	82.6	Lab Sample ID:	356188
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.6		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-005 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	84.2	Lab Sample ID:	356189
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.2		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-006 (20-21)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	85.7	Lab Sample ID:	356183
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	85.7		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-006 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	83.4	Lab Sample ID:	356184
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.4		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-006(30-31)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	83.8	Lab Sample ID:	356185
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.8		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-007 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	82.7	Lab Sample ID:	356191
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.7		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-007 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	82.2	Lab Sample ID:	356192
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.2		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-007 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	80.7	Lab Sample ID:	356193
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	80.7		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-008 (26-27)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	81.5	Lab Sample ID:	356197
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.5		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-008 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	83.7	Lab Sample ID:	356198
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.7		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-008 (29-30)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	83.4	Lab Sample ID:	356199
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.4		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-009 (24-25)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	81.6	Lab Sample ID:	356179
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.6		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-009 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	84.2	Lab Sample ID:	356180
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.2		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-009 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	82.3	Lab Sample ID:	356181
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.3		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-010 (23-24)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	84.9	Lab Sample ID:	356200
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.9		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-010 (28-29)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	86.3	Lab Sample ID:	356201
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	86.3		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-010 (32-33)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	84.2	Lab Sample ID:	356202
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.2		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-011 (22-23)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	85.3	Lab Sample ID:	356204
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	85.3		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-011 (27-28)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	89.8	Lab Sample ID:	356205
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	89.8		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DPT-011 (31-32)

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	84.7	Lab Sample ID:	356206
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.7		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DUP-001

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	79.8	Lab Sample ID:	356182
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	79.8		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DUP-002

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	83.2	Lab Sample ID:	356186
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166542	Analysis Date/Time	11/21/2019 18:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.2		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DUP-003

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix (soil/water):	SOIL	SDG No.:	149511
% Solids:	84.3	Lab Sample ID:	356203
Analytical Method:	EPA 8000C	Date Received:	11/11/2019
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	166543	Analysis Date/Time	11/21/2019 18:48
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.3		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166589 Lab Sample ID: 358316

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Cyanide, Reactive	11/14/2019 09:00	0.00	U	20	8

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

MB

3-3

METHOD BLANKS

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166583 Lab Sample ID: 358335

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/kg

Analysis Type: Initial Analysis

Analyte	Analysis Date/Time	Measured Concentration	C***	Detection Limit**	Control Limit
Sulfide Reactive	11/13/2019 9:00	0.00			100

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

46ADPT-TCLP

Lab Name:	CT Laboratories	Contract:	HDR, INC-LONGHORN
Matrix:	SOLID	SDG No.:	149511
% Solids for Sample:	86.0	Concentration Units:	mg/kg
Sample No	358318	Parent Sample No.:	356219
Analytical Prep Batch #		Analytical Preparation Date/Time:	
Analytical Run #:	166589	ICAL Calibration #:	

Analysis Type	*Initial Analysis*	Analysis Date: -----	11/14/2019	Analysis Time: --------	09:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Cyanide, Reactive	70-130	20.0	J			20.0	100		

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

SPIKE SAMPLE RECOVERY

Sample Description

46ADPT-TCLP

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: SOLID
SDG No.: 149511
% Solids for Sample: 86.0
Concentration Units: mg/kg
Sample No 358337
Parent Sample No.: 356219
Analytical Prep Batch #
Analytical Preparation Date/Time:
Analytical Run #: 166583
ICAL Calibration #:

Analysis Type *Initial Analysis* Analysis Date: ----- 11/13/2019 Analysis Time: -------- 9:00

Analyte	Control Limit (%R)	Spike Result	C (Spike)	Parent Result	C (Parent)	Spike Amount	%R	Q	M
Sulfide Reactive	70-130	100	J	BDL	U	100	100		

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

46ADPT-TCLP

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: SOLID
SDG No.: 149511
% Solid for Sample: 86.0
Concentration Units: mg/kg
Analytical Prep Batch #: 1
Analytical Preparation Date/Time:
Analytical Run #: 166589
ICAL Calibration #:
Sample #: 358314
Parent Sample #: 356219

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Cyanide, Reactive	11/14/2019	09:00	20	20	U	20	U	0		

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

46ADPT-TCLP

Lab Name: CT Laboratories

Contract: HDR, INC-LONGHORN

Matrix: SOLID

SDG No.: 149511

% Solid for Sample: 86.0

Concentration Units: mg/kg

Analytical Prep Batch # 1

Analytical Preparation Date/Time

Analytical Run #: 166583

ICAL Calibration #:

Sample #: 358336

Parent Sample #: 356219

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Sulfide Reactive	11/13/2019	9:00	20	100	U	100	U	0		

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

DPT-009 (31-32)

Lab Name: CT Laboratories

Contract: HDR, INC-LONGHORN

Matrix: SOLID

SDG No.: 149511

% Solid for Sample: 82.3

Concentration Units: %

Analytical Prep Batch # 1

Analytical Preparation Date/Time 0

Analytical Run #: 166542

ICAL Calibration #:

Sample #: 361819

Parent Sample #: 356181

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	11/21/2019	18:37	8	82.3		82.9		1		GRA

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

DPT-007 (27-28)

Lab Name: CT Laboratories

Contract: HDR, INC-LONGHORN

Matrix: SOLID

SDG No.: 149511

% Solid for Sample: 82.7

Concentration Units: %

Analytical Prep Batch # 1

Analytical Preparation Date/Time 0

Analytical Run #: 166543

ICAL Calibration #:

Sample #: 361820

Parent Sample #: 356191

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	11/21/2019	18:48	8	82.7		84.5		2		GRA

CT LABORATORIES
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Sample Description

6A

MATRIX SPIKE DUPLICATES

Lab Name: CT Laboratories Contract:

Matrix: SDG No.:

% Solid for Sample: Concentration Units:

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract HDR, INC-LONGHORN

LCS Source: SPEX and Ultra SDG No.: 149511

Concentration Units: mg/kg

Analytical Run #: 166589 Sample No.:#: 358315

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Cyanide, Reactive	11/14/2019 09:00	70-130	20.0	J	20.0	100		

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract HDR, INC-LONGHORN

LCS Source: SPEX and Ultra SDG No.: 149511

Concentration Units: Deg. F

Analytical Run #: 166449 Sample No.:#: 358333

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time	Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Flashpoint	11/11/2019 12:45	90-110	81.2		79.8	102		

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No:

LABORATORY CONTROL SAMPLE - SOLID

LCS

Lab Name: CT Laboratories Contract HDR, INC-LONGHORN

LCS Source: SPEX and Ultra SDG No.: 149511

Concentration Units: mg/kg

Analytical Run #: 166583 Sample No.:#: 358334

Analytical Prep Batch #: Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	C	Spike Amount	%R	Q	M
Sulfide Reactive	11/13/2019	9:00	70-130	100	J	100	100		

INORGANICS
RAW DATA
DOCUMENTS

pH - Mettler Toledo Seven Easy

Date:	11/11/2019	Analyst:	SRW	Lims #:	166453	Slope (%)	96

GRP	Sample ID#	Matrix	Temp (°C)*	Result	
1	BUFFER 7		19.5	7.02	
2	355257	WW	13.8	7.40	
3	356547	WW	15.7	7.70	
4					
5					
6					
7					
8					
9					
10					
11	355256	WW	13.3	7.94	
dup 11	355256	WW	13.3	7.95	
12	BUFFER 7		19.4	7.03	
13					
14					
15					
16					
17					
18					
19					
20					
21	356219	S	20.7	7.37	
23	356625	S	20.8	6.50	
dup 23	356625	S	20.8	6.49	
24					
25	355254	DW	10.1	6.30	
dup 25	355254	DW	10.2	6.31	
26	356623	GW	15.8	8.67	
dup 26	356623	GW	15.9	8.68	

To datacapture: Save CSV file under the TSS datacapture folder.

*Temperature of samples should be room temperature around 25°C

Buffer Standard IDs:

pH 4: W45311 pH 7: W46410 pH 10: W46764

pH 4

Flashpoint Bench Sheet

METHOD: EPA 1010A

Date/Time:	Run #:	Analyst:
11/11/19 12:45	166449	CLB

Barometric Pressure (inches)
29.37

*Find barometric pressure on WCT29

	Sample #	Date Sampled	Matrix	Flashpoint (°F)	Final Result (°F)	Comments:
1	LCSS	N/A	QC	80.6	81.4	p-Xylene W47303
2	351621	10/31/2019	S	122	122.8	
3	DUP 351621	10/31/2019	S	122	122.8	
4	356219	11/07/2019	S	>140	#VALUE!	
5	DUP 356219	11/07/2019	S	>140	#VALUE!	
6	356625	11/07/2019	S	>140	#VALUE!	
7	DUP 356625	11/07/2019	S	>140	#VALUE!	
8	LCSW	N/A	QC	80.4	81.2	
9	356623	11/07/2019	GW	>140	#VALUE!	
10	DUP 356623	11/07/2019	GW	>140	#VALUE!	
11					0.8	
12					0.8	
13					0.8	
14					0.8	
15					0.8	
16					0.8	
17					0.8	
18					0.8	
19					0.8	
20					0.8	

Calculation: Final Result= Observed FP + 0.06{ 760-(Barometric Pressure x 25.4 mm Hg)}

Reactive Cyanide Screening

	Date:	11/14/2019	Analyst:	CLB	Lims #:	166589		
	Sample ID	Matrix	Sample Amount (g or mL)	Spike Volume	Result (POS or NEG)		Reported Result	Comments
1	LCSS	QC	5 g	0.1000	POS		20	
2	MBS	QC	5 g		NEG		0	
3	356219	S	5 g		NEG		0	
4	DUP 356219	S	5 g		NEG		0	
5	MS 356219	S	5 g	0.1000	POS		20	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Reagents	W#	Exp Date
Cyanide Stock	47478	12/30/2019
1 N NaOH		
0.5 N H2SO4	46511	05/20/2020
6 N H2SO4		

Waters
POS = 10

Solids
POS = 20

To datacapture: Save CSV file under the TSS datacapture folder.

Reactive Sulfide Screening

	Date:	11/13/2019	Analyst:	CLB	Lims #:	166583		
	Sample ID	Matrix	Sample Amount (g or mL)	Spike Volume	Result (POS or NEG)		Reported Result	Comments
1	LCSS	QC	0.5	0.0500	POS		100	
2	MBS	QC	0.5		NEG		0	
3	356219	S	0.5		NEG		0	
4	DUP 356219	S	0.5		NEG		0	
5	MS 356219	S	0.5	0.0500	POS		100	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Reagents

	W#	Exp Date
Sulfide Stock	47795	01/13/20
50% HCl	44194	05/24/19

Waters
POS = 2

Solids
POS = 100

To datacapture: Save CSV file under the TSS datacapture folder.

TOTAL SOLIDS (PERCENT)

LIMS #: 166542

Start Date:	**11/21/2019**	**Start Time:**	18:37		**Analyst:**	BMM
	Sample ID#	**Dish#**	**Tared Weight g *(D)***	**Wet Weight g *(E)***	**Dry Weight g *(F)***	**RESULTS % TOTAL SOLIDS**
1)	356170	T931	2.47	11.92	11.28	93.2%
2)	356171	T923	2.46	14.04	12.37	85.6%
3)	356172	T498	2.39	13.24	11.30	82.1%
4)	356173	T492	2.39	13.66	11.29	79.0%
5)	356174	T500	2.42	14.02	12.20	84.3%
6)	356175	T225	2.43	12.78	10.95	82.3%
7)	356176	T224	2.43	8.13	6.99	80.0%
8)	356177	T223	2.47	7.88	7.00	83.7%
9)	356178	T222	2.43	8.32	7.22	81.3%
10)	356179	T221	2.46	7.83	6.84	81.6%
11)	356180	T493	2.37	7.94	7.06	84.2%
12)	356182	T497	2.38	7.63	6.57	79.8%
13)	356183	T476	2.39	7.49	6.76	85.7%
14)	356184	T481	2.38	7.73	6.84	83.4%
15)	356185	T486	2.37	7.91	7.01	83.8%
16)	356186	T478	2.39	8.28	7.29	83.2%
17)	356187	T463	2.46	7.88	6.86	81.2%
18)	356188	T318	2.45	8.08	7.10	82.6%
19)	356189	T317	2.47	7.79	6.95	84.2%
*20)	356181	T316	2.44	7.75	6.81	82.3%
Dup 20)	356181	T315	2.45	7.76	6.85	82.9%

Dry Weight = Sample + Dish (gms)

Wet Weight = Sample + Dish (gms)

*** 2nd Reading,** 6.81

Set RPD: 0.7%

Balance: VOB-01

*mg Differen: 0

Stop Date: 11/22/2019

Stop Time: 08:04

*2nd reading must be within 50mg of the 1st

Calculations

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of...((Sample-Dup % TS)/(Average%TS))*100

TOTAL SOLIDS (PERCENT)

LIMS #: 166543

Start Date:	**11/21/2019**	**Start Time:**	18:48		**Analyst:**	BMM
	Sample ID#	**Dish#**	**Tared Weight g *(D)***	**Wet Weight g *(E)***	**Dry Weight g *(F)***	**RESULTS % TOTAL SOLIDS**
1)	356192	T578	2.45	8.24	7.21	82.2%
2)	356193	T577	2.45	7.89	6.84	80.7%
3)	356194	T294	2.44	8.33	7.39	84.0%
4)	356195	T293	2.44	7.74	6.98	85.7%
5)	356196	T291	2.44	8.24	7.30	83.8%
6)	356197	T292	2.44	8.34	7.25	81.5%
7)	356198	T215	2.47	8.29	7.34	83.7%
8)	356199	T214	2.47	8.01	7.09	83.4%
9)	356200	T213	2.45	8.41	7.51	84.9%
10)	356201	T462	2.46	8.31	7.51	86.3%
11)	356202	T461	2.42	8.43	7.48	84.2%
12)	356203	T460	2.41	7.68	6.85	84.3%
13)	356204	T278	2.46	8.80	7.87	85.3%
14)	356205	T277	2.43	8.78	8.13	89.8%
15)	356206	T276	2.44	7.88	7.05	84.7%
16)	356219	T275	2.40	10.06	8.99	86.0%
17)						0.0%
18)						0.0%
19)						0.0%
*20)	356191	T474	2.42	4.50	4.14	82.7%
Dup 20)	356191	T447	2.48	5.31	4.87	84.5%

Dry Weight = Sample + Dish (gms)

Wet Weight = Sample + Dish (gms)

*** 2nd Reading,** 4.15

Set RPD: 2.2%

Balance: VOB-01

*mg Differen 10

Stop Date: 11/22/2019

Stop Time: 08:04

*2nd reading must be within 50mg of the 1st

Calculations

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

INORGANICS
LOGBOOK
DOCUMENTS

WPH Analytical Run
166453 on 11/11/2019

Date Analyzed: 11-11-19
Date Entered: 11-11-19 SRW
Date Reviewed: SR
Date Validated: 11-13-19

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149521	356623	ACADM-WW-001	11/07/2019 1700		MAXXAM ANALYTICS	SI OF AFFF AREAS	PH		GW	4	
149521	356625	ACADM-WS-001	11/07/2019 1700		MAXXAM ANALYTICS	SI OF AFFF AREAS	PH		S	4	
	356774	EFFLUENT	11/08/2019 0700	DUP 355256			PH SM4500H+B				
	356775	ACADM-WS-001	11/07/2019 1700	DUP 356625			PH				
	356776	S3751 FAIRFIELD RD	11/08/2019 1240	DUP 355254			PH				
	356777	ACADM-WW-001	11/07/2019 1700	DUP 356623			PH				

11 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

pH Data Validation Checklist

		Method: pH EPA 150.1, SM 4500-H+B, EPA 9040C, EPA 9045D			
LIMS Run #(s)	**Analysis Date**	**Analyst / Data Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved? (Yes or No)**
166453	11/11/2019	SRW	etk	11/13/2019	yes

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question.
Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	**Acceptance Criteria**	**Analyst Review**		**Independent Review**		**Comments:**
		Yes	No	Yes	No	(indicate reference to an attachment if necessary)
1. Was the calibration slope recorded on the bench sheet?	95-110%	Yes		Yes		
2. Were reagents/standards used before expiration date?	---	Yes		Yes		
3. Were duplicates analyzed at the appropriate frequency?	1 every 20 samples of the same matrix	Yes		Yes		
4. Were the duplicates within acceptable limits?	Differ by $\leq$ 0.10 pH units	Yes		Yes		
5. Are all samples on the job lists accounted for?	---	Yes		Yes		
6. Were SM 4500-H+B samples bracketed by calibration buffer 7?	Every 10 samples, Differ by $\leq$ 0.10 pH units	Yes		Yes		

WFLASHPOINT Analytical Run
166449 on 11/11/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149315	351621		10/31/2019 00:00		CT LABORATORIES	Proficiency Testing	FLASHPOINT		S	**4**	
		SOIL/HW Flash Point									
149511	356219		11/07/2019 1030		HDR, INC	LONGHORN	FLASHPOINT		S	**4**	
		46ADPT-TCLP									

2 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Flashpoint Data Validation Checklist

		Method: Flashpoint EPA Method 1010			
LIMS Run #(s)	**Analysis Date**	**Analyst / Data Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved? (Yes or No)**
166449	11/11/2019	CLB	ETK	11/17/2019	YES

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question.
Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	**Acceptance Criteria**	**Analyst Review**		**Independent Review**		**Comments:**
		Yes	No	Yes	No	(indicate reference to an attachment if necessary)
1. Was LCS within acceptable limits?	77.9-81.9 F	X		Yes		
2. Were duplicates analyzed at the appropriate frequency?	1 every 20 samples of the same matrix	X		Yes		
3. Were the duplicates within acceptable limits?	Differ by < 5 F	X		Yes		
4. Are all samples on the job lists accounted for?	---	X		Yes		

WSULFIDE, REACT Analytical Run
166583 on 11/14/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: 11-17-19

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356219		11/07/2019 1030		HDR, INC	LONGHORN	SULFIDE, REACT		S	**4**	
		46ADPT-TCLP									
	358334						WSULFIDE, REACT				
				LCSS							
	358335						WSULFIDE, REACT				
				MBS							
	358336		11/07/2019 1030				SULFIDE, REACT				
		46ADPT-TCLP		DUP 356219							
	358337		11/07/2019 1030				SULFIDE, REACT				
		46ADPT-TCLP		MSS 356219							

5 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Reactive Cyanide Data Validation Checklist

		Method: Reactive Cyanide Screening			
LIMS Run #(s)	**Analysis Date**	**Analyst / Data Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved? (Yes or No)**
166589	11/14/2019	CLB	etk	11/17/2019	yes

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question.
Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	**Acceptance Criteria**	**Analyst Review**		**Independent Review**		**Comments:**
		Yes	No	Yes	No	(indicate reference to an attachment if necessary)
1. Does a bench sheet accompany the run?	---	X		Yes		
2. Were the samples analyzed within hold time?	14 days	X		Yes		
3. Were reagents/standards used before expiration date?	---	X		Yes		
4. Was a method blank analyzed along with the samples?	---	X		Yes		
5. Was the method blank result acceptable?	< |LOD|	X		Yes		
6. Were duplicates analyzed at the required frequency?	1 per 20 samples of the same matrix	X		Yes		
7. Was the RPD of the duplicates acceptable?	Within in house QC limits	X		Yes		
8. Was an LCS standard analyzed at the required frequency?	1 per 20 samples of the same matrix	X		Yes		
9. Were the recoveries acceptable for the LCS?	Positive	X		Yes		
10. Was a MS analyzed within acceptable limits?	Positive	X		Yes		
11. Are all samples on the job lists accounted for?	---	X		Yes		
12. Was PM notified of positive samples?	---	X		Yes		

WSULFIDE, REACT Analytical Run
166583 on 11/14/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356219		11/07/2019 1030		HDR, INC	LONGHORN	SULFIDE, REACT		S	**4**	
		46ADPT-TCLP									
	358334						WSULFIDE, REACT				
				LCSS							
	358335						WSULFIDE, REACT				
				MBS							
	358336		11/07/2019 1030				SULFIDE, REACT				
		46ADPT-TCLP		DUP 356219							
	358337		11/07/2019 1030				SULFIDE, REACT				
		46ADPT-TCLP		MSS 356219							

5 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WSOLIDS Analytical Run
166542 on 11/22/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356170		11/04/2019 1400		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-002 (26-27)									
149511	356171		11/04/2019 1410		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-002 (32-33)									
149511	356172		11/04/2019 1420		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-002 (40-41)									
149511	356173		11/04/2019 1540		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-003 (29-30)									
149511	356174		11/04/2019 1550		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-003 (35-36)									
149511	356175		11/04/2019 1600		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-003 (39-40)									
149511	356176		11/05/2019 0810		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-001 (27-28)									
149511	356177		11/05/2019 0820		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-001 (31-32)									
149511	356178		11/05/2019 0830		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-001 (38-39)									
149511	356179		11/05/2019 0940		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-009 (24-25)									
149511	356180		11/05/2019 0950		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-009 (28-29)									
149511	356181		11/05/2019 1000		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-009 (31-32)		Designated MS/MSD							
149511	356182		11/05/2019 0800		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DUP-001									
149511	356183		11/05/2019 1120		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-006 (20-21)									
149511	356184		11/05/2019 1130		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-006 (27-28)									
149511	356185		11/05/2019 1140		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-006(30-31)		Designated MS/MSD							
149511	356186		11/05/2019 0830		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DUP-002									
149511	356187		11/05/2019 1250		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-005 (24-25)									
149511	356188		11/05/2019 1300		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-005 (27-28)									

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WSOLIDS Analytical Run
166542 on 11/22/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356189		11/05/2019 1310		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	**4**	
		DPT-005 (31-32)									
	361708		11/05/2019 1000				SOLIDS,PERCENT				
		DPT-009 (31-32)		DUP 356181				0			

21 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WSOLIDS Analytical Run
166543 on 11/22/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
149511	356191		11/05/2019 1520		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-007 (27-28)									
149511	356192		11/05/2019 1530		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-007 (29-30)									
149511	356193		11/05/2019 1540		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-007 (31-32)									
149511	356194		11/06/2019 0900		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-004 (28-29)									
149511	356195		11/06/2019 0910		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-004 (30-31)									
149511	356196		11/06/2019 0920		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-004 (32-33)									
149511	356197		11/06/2019 1050		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-008 (26-27)									
149511	356198		11/06/2019 1100		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-008 (27-28)									
149511	356199		11/06/2019 1110		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-008 (29-30)									
149511	356200		11/06/2019 1200		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-010 (23-24)									
149511	356201		11/06/2019 1210		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-010 (28-29)									
149511	356202		11/06/2019 1220		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-010 (32-33)									
149511	356203		11/06/2019 0800		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DUP-003									
149511	356204		11/06/2019 1340		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-011 (22-23)									
149511	356205		11/06/2019 1350		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-011 (27-28)									
149511	356206		11/06/2019 1400		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		DPT-011 (31-32)									
149511	356219		11/07/2019 1030		HDR, INC	LONGHORN	SOLIDS,PERCENT		S	4	
		46ADPT-TCLP									
	361711		11/05/2019 1520				SOLIDS,PERCENT				
		DPT-007 (27-28)		DUP 356191				0			

18 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

FWC26-10 Data Review Checklist

		Method: Percent Solids SW846-8000C	Independent Data Review Checklist		Balance: VOB-01
LIMS Run #(s)	**Analysis Date**	**Analyst / Data Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved? (Yes or No)**
166532, 166533, 166534, 166535, 166536, 166537, 166538, 166542, 166543, 166544, 166545	11/21/2019	BMM	RLD	11/22/2019	Yes

Instructions: Complete one checklist per *analytical run* . Enter the appropriate response for each question.
Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

Requirement:	**Acceptance Criteria**	**Analyst Review**		**Independent Review**		**Comments:**
		Yes	No	Yes	No	(indicate reference to an attachment if necessary)
1. Were samples analyzed within hold time?	14 days or program/project specific	Yes		Yes		Qualify data prepared after hold time
2. Were samples dried overnight?	> 8hours	Yes		Yes		If No: place samples back into oven for mimium of 8 hours of total dry time.
3. Were drying start and stop times recorded?	---	Yes		Yes		If No: record times and temperatures
4. Were duplicates analyzed at the appropriate frequency?	1 per 20 of similar matrix or at program/project specific frequency	Yes		Yes		If No: reprep samples with appropreate frequency for a duplicate.
5. Were the duplicates within acceptable limits?	Within in-house or program/project specific QC limits	Yes		Yes		If No: reprep and reanalyze samples or qualify parent sample result (Y).
6. Are all samples on the job lists accounted for?	---	Yes		Yes		If No: analyze samples that were were missed.
7. Were nonconformities (if applicable) documented in the NCR spreadsheet?		Yes		Yes		If No: Enter nonformities into the NCR spreadsheet before data review/validation.

CHAIN OF CUSTODY,
PM CONFIRMATION
AND
SAMPLE CONDITION FORMS
DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 149511
Client: HDR, INC

Print Date / Time: 11/11/2019 14:20
Received Date / Time / By: 11/09/2019 11:40 JLS

Project Name: LONGHORN
Project Phase:

Log-In Date / Time / By: 11/11/2019 12:15 JLS
Project #: 10097916 PM: ETK

Coolers: 5 COOLERS
Custody Seals Present : **Y**

Temperature: ≤2.9 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: DATED AND SIGNED
Tracking Number: 78084332266
Temp Blank Enclosed? **Y**

Notes: SAMPLES REC'D IN GOOD CONDITION ON ICE 1 CUSTODY SEAL PRESENT AND INTACT ON EACH COOLER
ALL DATED 11/08/2019 AND SIGNED

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356164 TB-001				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 2			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356170 DPT-002 (26-27)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356170 DPT-002 (26-27)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356171 DPT-002 (32-33)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356171 DPT-002 (32-33)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356172 DPT-002 (40-41)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356172 DPT-002 (40-41)				
	TERRA CORE KIT	1	/	VOC

	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) =**	**3**	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356173 DPT-003 (29-30)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) =**	**1**	
356173 DPT-003 (29-30)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) =**	**3**	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356174 DPT-003 (35-36)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) =**	**1**	
356174 DPT-003 (35-36)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) =**	**3**	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356175 DPT-003 (39-40)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) =**	**1**	
356175 DPT-003 (39-40)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) =**	**3**	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356176 DPT-001 (27-28)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) =**	**1**	
356176 DPT-001 (27-28)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) =**	**3**	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356177 DPT-001 (31-32)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) =**	**1**	
356177 DPT-001 (31-32)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

149511

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356178 DPT-001 (38-39)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356178 DPT-001 (38-39)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
356179 DPT-009 (24-25)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356179 DPT-009 (24-25)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
356180 DPT-009 (28-29)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356180 DPT-009 (28-29)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
356181 DPT-009 (31-32)				
	SOLIDS	1	/	%SOL
	SOLIDS	1	/	%SOL
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 3			
356181 DPT-009 (31-32)				
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	Total # of Containers of Type (*TERRA CORE*) = 6			
356181 DPT-009 (31-32)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

149511

356182 DUP-001

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356182 DUP-001

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356183 DPT-006 (20-21)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356183 DPT-006 (20-21)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356184 DPT-006 (27-28)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356184 DPT-006 (27-28)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356185 DPT-006(30-31)

SOLIDS	1	/	%sol
SOLIDS	1	/	%sol
SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 3

356185 DPT-006(30-31)

TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC

Total # of Containers of Type (*TERRA CORE*) = 6

356185 DPT-006(30-31)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356186 DUP-002

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356186 DUP-002

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	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356187 DPT-005 (24-25)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356187 DPT-005 (24-25)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356188 DPT-005 (27-28)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356188 DPT-005 (27-28)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356189 DPT-005 (31-32)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356189 DPT-005 (31-32)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356190 EB-001				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356191 DPT-007 (27-28)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356191 DPT-007 (27-28)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356192 DPT-007 (29-30)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356192 DPT-007 (29-30)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356193 DPT-007 (31-32)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356193 DPT-007 (31-32)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356194 DPT-004 (28-29)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356194 DPT-004 (28-29)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356195 DPT-004 (30-31)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356195 DPT-004 (30-31)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356196 DPT-004 (32-33)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356196 DPT-004 (32-33)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

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356197 DPT-008 (26-27)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356197 DPT-008 (26-27)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356198 DPT-008 (27-28)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356198 DPT-008 (27-28)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356199 DPT-008 (29-30)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356199 DPT-008 (29-30)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356200 DPT-010 (23-24)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356200 DPT-010 (23-24)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356201 DPT-010 (28-29)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356201 DPT-010 (28-29)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356202 DPT-010 (32-33)

SOLIDS	1	/	%SOL

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Total # of Containers of Type (*SOLIDS*) = 1

356202 DPT-010 (32-33)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356203 DUP-003

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356203 DUP-003

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356204 DPT-011 (22-23)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356204 DPT-011 (22-23)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356205 DPT-011 (27-28)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356205 DPT-011 (27-28)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356206 DPT-011 (31-32)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356206 DPT-011 (31-32)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356207 DPT-002

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

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	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 9

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356208 DUP-004				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356209 DPT-003				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356210 DPT-004				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356211 DPT-009				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356212 DPT-006				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356213 DPT-007				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356214 DPT-001				
	AMBER GL	1	/	8270

	AMBER GL	1	/	8270

Total # of Containers of Type (*AMBER GL*) = 2

356214 DPT-001

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356215 DPT-005

AMBER GL	1	/	8270
AMBER GL	1	/	8270

Total # of Containers of Type (*AMBER GL*) = 2

356215 DPT-005

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356216 DPT-008

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356217 DPT-010

AMBER GL	1	/	8270
AMBER GL	1	/	8270

Total # of Containers of Type (*AMBER GL*) = 2

356217 DPT-010

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356218 46ADPT-TCLP

AMBER GL	1	/	8270,HERBS,PEST

Total # of Containers of Type (*AMBER GL*) = 1

356218 46ADPT-TCLP

SOLIDS	1	/	HG,ICP

Total # of Containers of Type (*SOLIDS*) = 1

356218 46ADPT-TCLP

JAR GL	1	/	VOC

Total # of Containers of Type (*JAR GL*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356219 46ADPT-TCLP

SOLIDS	1	/	%SOL,CN React,FLASH,pH,S2 React

Total # of Containers of Type (*SOLIDS*) = 1

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Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356220 EB-002				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356221 DPT-011				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356222 47WW09				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356223 EB-003				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			
356223 EB-003				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356224 47WW37				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356225 DUP-005				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356226 DUP-006				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356227 47WW25R-35				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 6			
356227 47WW25R-35				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356228 47WW25R-38				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			
356228 47WW25R-38				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356229 TB-002				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 2			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356230 TB-003				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 2			

Condition Code	*Condition Description*
1	Sample Received OK

149511

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CHAIN OF CUSTODY

Page 1 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 149511
Company: HDR, INC
Project: LONGHORN
Logged By: JLS PM: ET

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAMB
EMAIL:
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					Fill in Spaces with Bottles per Test					
11/4/19	0800	TB	—		TB-001		X	2		356164
11/4/19	1400	S	G		DPT-002 (26-27)		X	4		356170
11/4/19	1410	S	G		DPT-002 (32-33)		X	4		356171
11/4/19	1420	S	G		DPT-002 (40-41)		X	4		356172
11/4/19	1540	S	G		DPT-003 (29-30)		X	4		356173
11/4/19	1550	S	G		DPT-003 (35-36)		X	4		356174
11/4/19	1600	S	G		DPT-003 (39-40)		X	4		356175
11/5/19	0810	S	G		DPT-001 (27-28)		X	4		356176
11/5/19	0820	S	G		DPT-001 (31-32)		X	4		356177
11/5/19	0830	S	G		DPT-001 (38-39)		X	4		356178
11/5/19	0940	S	G		DPT-009 (24-25)		X	4		356179
11/5/19	0950	S	G		DPT-009 (28-29)		X	4		356180

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600	Tyler	
Received by:	Date/Time	Received for Laboratory by:	Date/Time
jls for ATJ	11/9/19 1140		11/11/19 1215

Lab Use Only
Ice Present (Yes) No
Temp <2.9 IR Gun 28
Cooler # 5 Coolers

Rev. 02/2017

CHAIN OF CUSTODY

Page 2 of 4

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Blds 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:
M49511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					Fill in Spaces with Bottles per Test					
11/5/19	1000	S	G		DPT-009 (31-32)		X	4		356181
11/5/19	1000	S	G		DPT-009 (31-32) MS		X	4		356181
11/5/19	1000	S	G		DPT-009 (31-32) MSD		X	4		356181
11/5/19	0800	S	G		DUP-001		X	4		356182
11/5/19	1120	S	G		DPT-006 (20-21)		X	4		356183
11/5/19	1130	S	G		DPT-006 (27-28)		X	4		356184
11/5/19	1140	S	G		DPT-006 (30-31)		X	4		356185
11/5/19	0830	S	G		DUP-002		X	4		356186
11/5/19	1140	S	G		DPT-006 (30-31) MS		X	4		356185
11/5/19	1140	S	G		DPT-006 (30-31) MSD		X	4		356185
11/5/19	1250	S	G		DPT-005 (24-25)		X	4		356187
11/5/19	1300	S	G		DPT-005 (27-28)		X	4		356188

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600	Fedex	
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
	11/9/19 1140		11/11/19 0915

Lab Use Only
Ice Present (Yes) No
Temp 2.2-1 IR Gun 28
Cooler # 5 coolers

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Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

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608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

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149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test			
11/5/19	1310	S	G		DPT-005 (31-32)		X	4		356189
11/5/19	1500	W	—		EB-001		X	3		356190
11/5/19	1520	S	G		DPT-007 (27-28)		X	4		356191
11/5/19	1530	S	G		DPT-007 (29-30)		X	4		356192
11/5/19	1540	S	G		DPT-007 (31-32)		X	4		356193
11/6/19	0900	S	G		DPT-004 (28-29)		X	4		356194
11/6/19	0910	S	G		DPT-004 (30-31)		X	4		356195
11/6/19	0920	S	G		DPT-004 (32-33)		X	4		356196
11/6/19	1050	S	G		DPT-008 (26-27)		X	4		356197
11/6/19	1100	S	G		DPT-008 (27-28)		X	4		356198
11/6/19	1110	S	G		DPT-008 (29-30)		X	4		356199
11/6/19	1200	S	G		DPT-010 (23-24)		X	4		356200

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600	Fedex	
Received by:	Date/Time	Received for Laboratory by:	Date/Time
[signature] for ATS	11/9/19 1140	[signature]	11/11/19 1215

Lab Use Only
Ice Present (Yes) No
Temp 4.2.7 IR Gun 28
Cooler # 5 coolers

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 1009791.1
Location: LHAAP
Sampled By: FEN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address:

Invoice To:* SAMB
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					Fill in Spaces with Bottles per Test					
11/6/19	1210	S	G		DPT-010 (28-29)		X	4		356201
11/6/19	1220	S	G		DPT-010 (32-33)		X	4		356202
11/6/19	0800	S	G		DUP-003		X	4		356203
11/6/19	1340	S	G		DPT-011 (22-23)		X	4		356204
11/6/19	1350	S	G		DPT-011 (27-28)		X	4		356205
11/6/19	1400	S	G		DPT-011 (31-32)		X	4		356206
11/6/19	1420	GW	G		DPT-002		X	3		356207
11/6/19	1420	GW	G		DPT-002 MS		X	3		356207
11/6/19	1420	GW	G		DPT-002 MSD		X	3		356207
11/6/19	0830	GW	G		DUP-004		X	3		356208
11/6/19	1500	GW	G		DPT-003		X	3		356209
11/6/19	1515	GW	G		DPT-004		X	3		356210

Relinquished By:	Date/Time	Received By:	Date/Time	Lab Use Only
BRIC NORTH	11/08/2019 1600	Fedex		Ice Present (Yes) No
Received by:	Date/Time	Received for Laboratory by:	Date/Time	Temp 2.9 IR Gun 28
for ATJ	11/9/19 1140		11/11/19 MS	Cooler # 5 Coolers

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: –
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: –

Invoice To:* SAME
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

Client Special Instructions
DPT-007 expected to be hot

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	VOC	1,4-Dioxane	TCLP VOC	TCLP SVOC	TCLP Metals/Hg	TCLP Herbicides	TCLP Pesticides	Ignitability	Corrosivity	Reactivity						Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					ANALYSES REQUESTED / Fill in Spaces with Bottles per Test																			
11/6/19	1525	GW	G		DPT-009		X															3		356211
11/6/19	1540	GW	G		DPT-006		X															3		356212
11/6/19	1550	GW	G		DPT-007		X															3		356213
11/7/19	0720	GW	G		DPT-001		X	X														5		356214
11/7/19	0800	GW	G		DPT-005		X	X														5		356215
11/7/19	0830	GW	G		DPT-008		X															3		356216
11/7/19	0840	GW	G		DPT-010		X	X														5		356217
11/7/19	1030	S	C		46ADPT-TCLP				X	X	X	X	X	X	X	X						3		356218/219
11/6/19	1600	W	–		EB-002		X															3		356220
11/7/19	0915	GW	G		DPT-011		X															3		356221
11/7/19	1525	GW	G		47WW09			X														2		356222
11/8/19	0700	W	–		EB-003		X	X														5		356223

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
[signature] for ATJ	11/9/19 1140	[signature]	11/11/19 1015

Lab Use Only
Ice Present (Yes) No
Temp 2.2-2 IR Gun 28
Cooler # 5 Coolers

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:*
EMAIL: SAMB
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

Client Special Instructions
47WW25R expected to be hot

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	1,4-Dioxane	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					Fill in Spaces with Bottles per Test						
11/8/19	0915	GW	G		47WW37		X		3		356224
11/8/19	0800	GW	G		DUP-005		X		3		356225
11/8/19	0830	GW	G		DUP-006			X	2		356226
11/8/19	1040	GW	G		47WW25R-35		X	X	5		356227
11/8/19	1040	GW	G		47WW25R-35MS			X	2		356227
11/8/19	1040	GW	G		47WW25R-35MSD			X	2		356227
11/8/19	1130	GW	G		47WW25R-38		X	X	5		356228
11/4/19	0800	TB	—		TB-002		X		2		356229
11/4/19	0800	TB	—		TB-003		X		2		356230

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
JOATJ	11/9/19 1140		11/11/19 1215

Lab Use Only
Ice Present (Yes) No
Temp 4.2-.1 IR Gun 28
Cooler # 5 coolers

Cooler Receipt Form

Ice Present (YES) NO

Temperature 0.6

IR Gun # 28

Initials AFS

Date 11-9-19 Time 11:40

Cooler #: 6309



Cooler Receipt Form

Ice Present (YES) NO

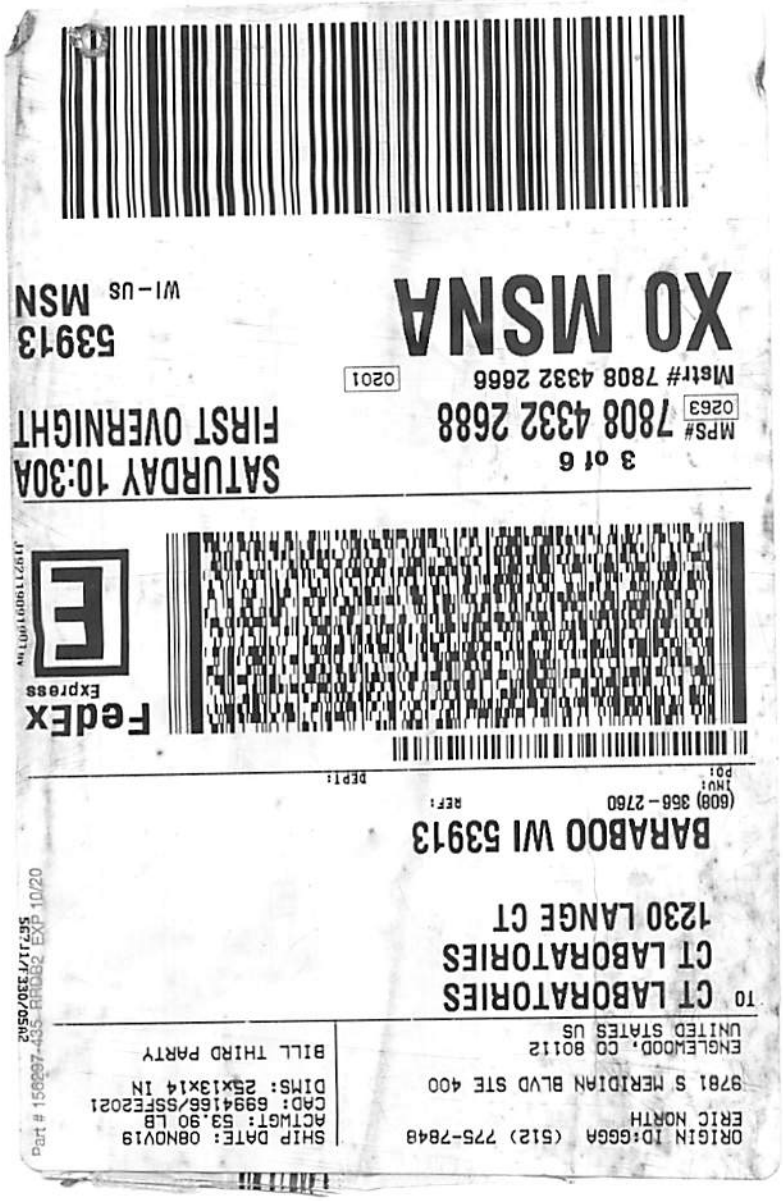
Temperature 2.9

IR Gun # 28

Initials AT

Date 11-9-19 Time 12:30

Cooler #: 9602





FORM #: FPM3-02
Rev. #: 1.0
Effective Date: 05/27/2014
Page 1 of 1

Cooler Receipt Form

Ice Present (YES) NO

Temperature 2.3

IR Gun # 26

Initials ATS

Date 11-9-19 Time 12:30

Cooler #: G335

Cooler Receipt Form

Ice Present (YES) NO

Temperature 1.2

IR Gun # 28

Initials AJS

Date 11-1-19 Time 17:50

Cooler #: 6178

FORM #: FPM3-02
Rev. #: 1.0
Effective Date: 05/27/2014
Page 1 of 1

Cooler Receipt Form

Ice Present (YES) NO

Temperature 1

IR Gun # 28

Initials HTS

Date 11-9-19 Time 11:50

Cooler #: 6310

Folder #: 149511

PM LOGIN CONFIRMATION

Contract #: 3320

Company: HDR, INC **Project:** LONGHORN **Proj #:** 10097916

Project Phase: **PO Number:** **Invoice #:** 150148

Project Manager: *ETK* **Date Received:** 11/11/19 **Log Date:** 11/11/2019

Report To: LYNN LUTZ CC:
9781 S. MERIDIAN BLVD.
SUITE 400
ENGLEWOOD, CO 80112
Phone: : Fax:
Rep. E-Mail LYNN.LUTZ@HDRINC.COM

Invoice To :ACCOUNTS PAYABLE CC: LYNN LUTZ
8404 INDIAN HILLS DR
OMAHA, NE 68114
Phone: Fax:
EMail: invoices@hdrinc.com

Collected By:
Collector's Phone:

Arrival Temperature: 2.9 oC

SAMPLE #: 356164 DESCR: TB-001 **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED: 11/04/2019 Time: 0800**

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/18/2019	11/23/2019		Logged

SAMPLE #: 356170 DESCR: DPT-002 (26-27) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 11/04/2019 Time: 1400**

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356171 DESCR: DPT-002 (32-33) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 11/04/2019 Time: 1410**

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged

C:\LIMSREPS\CONFIRMATION.RPT

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356171 **DESCR:** DPT-002 (32-33) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/04/2019 **Time:** 1410

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356172 **DESCR:** DPT-002 (40-41) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/04/2019 **Time:** 1420

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356173 **DESCR:** DPT-003 (29-30) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/04/2019 **Time:** 1540

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356174 **DESCR:** DPT-003 (35-36) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/04/2019 **Time:** 1550

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356175 **DESCR:** DPT-003 (39-40) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/04/2019 **Time:** 1600

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356176 **DESCR:** DPT-001 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0810

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356177 **DESCR:** DPT-001 (31-32) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0820

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356178 **DESCR:** DPT-001 (38-39) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0830

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356179 **DESCR:** DPT-009 (24-25) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0940

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356180 **DESCR:** DPT-009 (28-29) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0950

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356181 **DESCR:** DPT-009 (31-32) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1000

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)			***DESIGNATED MATRIX SPIKE***		11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)		***Y***	***DESIGNATED MATRIX SPIKE***		11/23/2019		Logged

SAMPLE #: 356182 **DESCR:** DUP-001 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0800

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)		***Y***			11/23/2019		Logged

SAMPLE #: 356183 **DESCR:** DPT-006 (20-21) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1120

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)		***Y***			11/23/2019		Logged

SAMPLE #: 356184 **DESCR:** DPT-006 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1130

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)		***Y***			11/23/2019		Logged

SAMPLE #: 356185 **DESCR:** DPT-006(30-31) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1140

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)			***DESIGNATED MATRIX SPIKE***		11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)		***Y***	***DESIGNATED MATRIX SPIKE***		11/23/2019		Logged

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356186 **DESCR:** DUP-002 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0830

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356187 **DESCR:** DPT-005 (24-25) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1250

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356188 **DESCR:** DPT-005 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1300

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356189 **DESCR:** DPT-005 (31-32) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1310

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356190 **DESCR:** EB-001 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/05/2019 **Time:** 1500

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/19/2019	11/23/2019		Logged

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356191 **DESCR:** DPT-007 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1520

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356192 **DESCR:** DPT-007 (29-30) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1530

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356193 **DESCR:** DPT-007 (31-32) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1540

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356194 **DESCR:** DPT-004 (28-29) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 0900

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356195 **DESCR:** DPT-004 (30-31) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 0910

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356196 **DESCR:** DPT-004 (32-33) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 0920

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356197 **DESCR:** DPT-008 (26-27) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1050

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356198 **DESCR:** DPT-008 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1100

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356199 **DESCR:** DPT-008 (29-30) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1110

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356200 **DESCR:** DPT-010 (23-24) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1200

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356201 **DESCR:** DPT-010 (28-29) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1210

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356202 **DESCR:** DPT-010 (32-33) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1220

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356203 **DESCR:** DUP-003 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 0800

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356204 **DESCR:** DPT-011 (22-23) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1340

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356205 **DESCR:** DPT-011 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1350

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356206 **DESCR:** DPT-011 (31-32) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1400

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)					11/23/2019		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		11/23/2019		Logged

SAMPLE #: 356207 **DESCR:** DPT-002 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1420

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y* ***DESIGNATED MATRIX SPIKE***	11/20/2019	11/23/2019		Logged

SAMPLE #: 356208 **DESCR:** DUP-004 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 0830

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/20/2019	11/23/2019		Logged

SAMPLE #: 356209 **DESCR:** DPT-003 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1500

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/20/2019	11/23/2019		Logged

SAMPLE #: 356210 **DESCR:** DPT-004 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1515

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/20/2019	11/23/2019		Logged

SAMPLE #: 356211 **DESCR:** DPT-009 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1525

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356211 **DESCR:** DPT-009 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1525

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/20/2019	11/23/2019		Logged

SAMPLE #: 356212 **DESCR:** DPT-006 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1540

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/20/2019	11/23/2019		Logged

SAMPLE #: 356213 **DESCR:** DPT-007 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1550

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/20/2019	11/23/2019		Logged

SAMPLE #: 356214 **DESCR:** DPT-001 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 0720

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/21/2019	11/23/2019		Logged
1290	SVOC 8270 1,4-Dioxane QSM 5	(EPA 8270D-SIM)					11/23/2019		NeedPrep

SAMPLE #: 356215 **DESCR:** DPT-005 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 0800

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/21/2019	11/23/2019		Logged
1290	SVOC 8270 1,4-Dioxane QSM 5	(EPA 8270D-SIM)					11/23/2019		NeedPrep

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356216 **DESCR:** DPT-008 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 0830

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/21/2019	11/23/2019		Logged

SAMPLE #: 356217 **DESCR:** DPT-010 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 0840

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/21/2019	11/23/2019		Logged
1290	SVOC 8270 1,4-Dioxane QSM 5	(EPA 8270D-SIM)					11/23/2019		NeedPrep

SAMPLE #: 356218 **DESCR:** 46ADPT-TCLP **PRIMARY / DETAILED MATRIX:** AQUEOUS / TCLP **SAMPLED:** 11/07/2019 **Time:** 1030

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1051	PESTICIDES QSM TCLP	(EPA 8081B)					11/23/2019		NeedExt
1192	ICP QSM TCLP 5.0	(EPA 6010C)				05/05/2020	11/23/2019		NeedExt
			Arsenic						
			Barium						
			Cadmium						
			Chromium						
			Lead						
			Selenium						
			Silver						
1207	MERCURY QSM TCLP 5.0	(EPA 7470A)				12/05/2019	11/23/2019		NeedExt
1223	VOC 8260 QSM TCLP 5.0	(EPA 8260C)					11/23/2019		NeedExt
1247	SVOC 8270 QSM 5 TCLP	(EPA 8270D)					11/23/2019		NeedExt
1310	HERBICIDES TCLP QSM 5	(EPA 8151A)					11/23/2019		NeedExt

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356219 **DESCR:** 46ADPT-TCLP **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/07/2019 **Time:** 1030

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
8	SOLIDS,PERCENT	(EPA 8000C)				11/21/2019	11/23/2019		Logged
203	PH	(EPA 9045D)					11/23/2019		Entered
618	FLASHPOINT	(EPA 1010A)				12/05/2019	11/23/2019		Logged
703	CYANIDE, REACT	(SW 846 Ch. 7)					11/23/2019		Logged
704	SULFIDE, REACT	(ASTM D4978)					11/23/2019		Logged

SAMPLE #: 356220 **DESCR:** EB-002 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1600

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/20/2019	11/23/2019		Logged

SAMPLE #: 356221 **DESCR:** DPT-011 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 0915

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/21/2019	11/23/2019		Logged

SAMPLE #: 356222 **DESCR:** 47WW09 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 1525

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1290	SVOC 8270 1,4-Dioxane QSM 5	(EPA 8270D-SIM)					11/23/2019		NeedPrep

SAMPLE #: 356223 **DESCR:** EB-003 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 0700

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/22/2019	11/23/2019		Logged

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356223 **DESCR:** EB-003 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 0700

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1290	SVOC 8270 1,4-Dioxane QSM 5	(EPA 8270D-SIM)					11/23/2019		NeedPrep

SAMPLE #: 356224 **DESCR:** 47WW37 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 0915

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/22/2019	11/23/2019		Logged

SAMPLE #: 356225 **DESCR:** DUP-005 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 0800

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/22/2019	11/23/2019		Logged

SAMPLE #: 356226 **DESCR:** DUP-006 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 0830

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1290	SVOC 8270 1,4-Dioxane QSM 5	(EPA 8270D-SIM)					11/23/2019		NeedPrep

SAMPLE #: 356227 **DESCR:** 47WW25R-35 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 1040

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y* ***DESIGNATED MATRIX SPIKE***	11/22/2019	11/23/2019		Logged
1290	SVOC 8270 1,4-Dioxane QSM 5	(EPA 8270D-SIM)			***DESIGNATED MATRIX SPIKE***		11/23/2019		NeedPrep

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

SAMPLE #: 356228 **DESCR:** 47WW25R-38 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 1130

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/22/2019	11/23/2019		Logged
1290	SVOC 8270 1,4-Dioxane QSM 5	(EPA 8270D-SIM)					11/23/2019		NeedPrep

SAMPLE #: 356229 **DESCR:** TB-002 **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED:** 11/04/2019 **Time:** 0800

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/18/2019	11/23/2019		Logged

SAMPLE #: 356230 **DESCR:** TB-003 **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED:** 11/04/2019 **Time:** 0800

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1221	VOC 8260 QSM 5.0	(EPA 8260C)			*Y*	11/18/2019	11/23/2019		Logged

Folder #: 149511 **Company:** *HDR, INC* **Project:** LONGHORN

Invoice Number: 150148 **Preliminary Invoice Estimate:** $ 8,080.00

Item	Matrix	Quantity	Price	Expedited TAT Surcharge	Total
CYANIDE, REACT	SOIL	1	$ 25.00	0.00	$ 25.00
FLASHPOINT	SOIL	1	$ 25.00	0.00	$ 25.00
HERBICIDES TCLP QSM 5	TCLP	1	$ 125.00	0.00	$ 125.00
ICP QSM TCLP 5.0 Arsenic	TCLP	1	$ 15.00	0.00	$ 15.00
ICP QSM TCLP 5.0 Barium	TCLP	1	$ 15.00	0.00	$ 15.00
ICP QSM TCLP 5.0 Cadmium	TCLP	1	$ 15.00	0.00	$ 15.00
ICP QSM TCLP 5.0 Chromium	TCLP	1	$ 15.00	0.00	$ 15.00
ICP QSM TCLP 5.0 Lead	TCLP	1	$ 15.00	0.00	$ 15.00
ICP QSM TCLP 5.0 Selenium	TCLP	1	$ 15.00	0.00	$ 15.00
ICP QSM TCLP 5.0 Silver	TCLP	1	$ 15.00	0.00	$ 15.00
MERCURY QSM TCLP 5.0	TCLP	1	$ 23.00	0.00	$ 23.00
PESTICIDES QSM TCLP	TCLP	1	$ 90.00	0.00	$ 90.00
PH	SOIL	1	$ 12.00	0.00	$ 12.00
SOLIDS,PERCENT	SOIL	37	$ 0.00	0.00	$ 0.00
SULFIDE, REACT	SOIL	1	$ 50.00	0.00	$ 50.00
SVOC 8270 1,4-Dioxane QSM 5	GROUND WATER	10	$ 170.00	0.00	$ 1700.00
SVOC 8270 QSM 5 TCLP	TCLP	1	$ 125.00	0.00	$ 125.00
VOC 8260 QSM 5.0	GROUND WATER	21	$ 80.00	0.00	$ 1680.00
VOC 8260 QSM 5.0	TRIP BLANK	3	$ 80.00	0.00	$ 240.00
VOC 8260 QSM LL 5.0	SOIL	40	$ 95.00	0.00	$ 3800.00
VOC 8260 QSM TCLP 5.0	TCLP	1	$ 80.00	0.00	$ 80.00
Temporary Fuel Surcharge on lab supplies and services (if applicable):					$ 0.00

C:\LIMSREPS\CONFIRMATION.RPT

Bottle Information

Container	# Containers	Tests
AMBER GL	**21**	8270,HERBS,PEST
JAR GL	**1**	VOC
SOLIDS	**42**	%SOL
TERRA CORE	**12**	VOC
TERRA CORE KIT	**108**	VOC
VOA HCL	**69**	VOC

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 149511
Client: HDR, INC

Print Date / Time: 11/11/2019 14:20
Received Date / Time / By: 11/09/2019 11:40 JLS

Project Name: LONGHORN
Project Phase:

Log-In Date / Time / By: 11/11/2019 12:15 JLS
Project #: 10097916 PM: ETK

Coolers: 5 COOLERS
Custody Seals Present : **Y**

Temperature: ≤2.9 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: DATED AND SIGNED
Tracking Number: 78084332266
Temp Blank Enclosed? **Y**

Notes: SAMPLES REC'D IN GOOD CONDITION ON ICE 1 CUSTODY SEAL PRESENT AND INTACT ON EACH COOLER
ALL DATED 11/08/2019 AND SIGNED

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356164 TB-001				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 2			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356170 DPT-002 (26-27)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356170 DPT-002 (26-27)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356171 DPT-002 (32-33)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356171 DPT-002 (32-33)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356172 DPT-002 (40-41)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356172 DPT-002 (40-41)				
	TERRA CORE KIT	1	/	VOC

TERRA CORE KIT	1	/		VOC
TERRA CORE KIT	1	/		VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356173 DPT-003 (29-30)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356173 DPT-003 (29-30)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356174 DPT-003 (35-36)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356174 DPT-003 (35-36)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356175 DPT-003 (39-40)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356175 DPT-003 (39-40)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356176 DPT-001 (27-28)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356176 DPT-001 (27-28)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356177 DPT-001 (31-32)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356177 DPT-001 (31-32)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356178 DPT-001 (38-39)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356178 DPT-001 (38-39)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356179 DPT-009 (24-25)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356179 DPT-009 (24-25)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356180 DPT-009 (28-29)				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
356180 DPT-009 (28-29)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356181 DPT-009 (31-32)				
	SOLIDS	1	/	%SOL
	SOLIDS	1	/	%SOL
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 3			
356181 DPT-009 (31-32)				
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	TERRA CORE	1	/	VOC
	Total # of Containers of Type (*TERRA CORE*) = 6			
356181 DPT-009 (31-32)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**

356182 DUP-001

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356182 DUP-001

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356183 DPT-006 (20-21)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356183 DPT-006 (20-21)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356184 DPT-006 (27-28)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356184 DPT-006 (27-28)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356185 DPT-006(30-31)

SOLIDS	1	/	%sol
SOLIDS	1	/	%sol
SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 3

356185 DPT-006(30-31)

TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC
TERRA CORE	1	/	VOC

Total # of Containers of Type (*TERRA CORE*) = 6

356185 DPT-006(30-31)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356186 DUP-002

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356186 DUP-002

	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356187 DPT-005 (24-25)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356187 DPT-005 (24-25)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356188 DPT-005 (27-28)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356188 DPT-005 (27-28)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356189 DPT-005 (31-32)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356189 DPT-005 (31-32)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356190 EB-001				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356191 DPT-007 (27-28)				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356191 DPT-007 (27-28)				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356192 DPT-007 (29-30)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356192 DPT-007 (29-30)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356193 DPT-007 (31-32)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356193 DPT-007 (31-32)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356194 DPT-004 (28-29)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356194 DPT-004 (28-29)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356195 DPT-004 (30-31)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356195 DPT-004 (30-31)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356196 DPT-004 (32-33)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356196 DPT-004 (32-33)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356197 DPT-008 (26-27)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356197 DPT-008 (26-27)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356198 DPT-008 (27-28)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356198 DPT-008 (27-28)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356199 DPT-008 (29-30)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356199 DPT-008 (29-30)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356200 DPT-010 (23-24)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356200 DPT-010 (23-24)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356201 DPT-010 (28-29)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356201 DPT-010 (28-29)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356202 DPT-010 (32-33)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356202 DPT-010 (32-33)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356203 DUP-003

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356203 DUP-003

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356204 DPT-011 (22-23)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356204 DPT-011 (22-23)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356205 DPT-011 (27-28)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356205 DPT-011 (27-28)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356206 DPT-011 (31-32)

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

356206 DPT-011 (31-32)

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356207 DPT-002

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 9

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356208 DUP-004				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356209 DPT-003				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356210 DPT-004				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356211 DPT-009				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356212 DPT-006				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356213 DPT-007				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356214 DPT-001				
	AMBER GL	1	/	8270

	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			

356214 DPT-001

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356215 DPT-005

AMBER GL	1	/	8270
AMBER GL	1	/	8270
Total # of Containers of Type (*AMBER GL*) = 2			

356215 DPT-005

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356216 DPT-008

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356217 DPT-010

AMBER GL	1	/	8270
AMBER GL	1	/	8270
Total # of Containers of Type (*AMBER GL*) = 2			

356217 DPT-010

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356218 46ADPT-TCLP

AMBER GL	1	/	8270,HERBS,PEST
Total # of Containers of Type (*AMBER GL*) = 1			

356218 46ADPT-TCLP

SOLIDS	1	/	HG,ICP
Total # of Containers of Type (*SOLIDS*) = 1			

356218 46ADPT-TCLP

JAR GL	1	/	VOC
Total # of Containers of Type (*JAR GL*) = 1			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

356219 46ADPT-TCLP

SOLIDS	1	/	%SOL,CN React,FLASH,pH,S2 React
Total # of Containers of Type (*SOLIDS*) = 1			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356220 EB-002				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356221 DPT-011				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356222 47WW09				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356223 EB-003				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			
356223 EB-003				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356224 47WW37				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356225 DUP-005				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			
Sample ID / Description	**Container Type**	**Cond. Code**	**pH OK?/Filtered?**	**Tests**
356226 DUP-006				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356227 47WW25R-35				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 6			
356227 47WW25R-35				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356228 47WW25R-38				
	AMBER GL	1	/	8270
	AMBER GL	1	/	8270
	Total # of Containers of Type (*AMBER GL*) = 2			
356228 47WW25R-38				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 3			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356229 TB-002				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 2			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
356230 TB-003				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (*VOA HCL*) = 2			

Condition Code	*Condition Description*
1	Sample Received OK

Rev. 02/2017

CHAIN OF CUSTODY

Page 1 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

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Folder #: 149511
Company: HDR, INC
Project: LONGHORN
Logged By: JLS PM: ET

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

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Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					Fill in Spaces with Bottles per Test					
11/4/19	0800	TB	—		TB-001		X	2		356164
11/4/19	1400	S	G		DPT-002 (26-27)		X	4		356170
11/4/19	1410	S	G		DPT-002 (32-33)		X	4		356171
11/4/19	1420	S	G		DPT-002 (40-41)		X	4		356172
11/4/19	1540	S	G		DPT-003 (29-30)		X	4		356173
11/4/19	1550	S	G		DPT-003 (35-36)		X	4		356174
11/4/19	1600	S	G		DPT-003 (39-40)		X	4		356175
11/5/19	0810	S	G		DPT-001 (27-28)		X	4		356176
11/5/19	0820	S	G		DPT-001 (31-32)		X	4		356177
11/5/19	0830	S	G		DPT-001 (38-39)		X	4		356178
11/5/19	0940	S	G		DPT-009 (24-25)		X	4		356179
11/5/19	0950	S	G		DPT-009 (28-29)		X	4		356180

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600	Tyler	
Received by:	Date/Time	Received for Laboratory by:	Date/Time
jls for ATJ	11/9/19 1140		11/11/19 1215

Lab Use Only
Ice Present (Yes) No
Temp <2.9 IR Gun 28
Cooler # 5 Coolers

E-2894

Rev. 02/2017

CHAIN OF CUSTODY

Page 2 of 4

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Blds 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

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www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:
M49511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

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Client Special Instructions

Matrix:
GW – groundwater **SW** - surface water **WW** - wastewater **DW** - drinking water
S - soil/sediment **SL** - sludge **A** - air **M** - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test			
11/5/19	1000	S	G		DPT-009 (31-32)		X	4		356181
11/5/19	1000	S	G		DPT-009 (31-32) MS		X	4		356181
11/5/19	1000	S	G		DPT-009 (31-32) MSD		X	4		356181
11/5/19	0800	S	G		DUP-001		X	4		356182
11/5/19	1120	S	G		DPT-006 (20-21)		X	4		356183
11/5/19	1130	S	G		DPT-006 (27-28)		X	4		356184
11/5/19	1140	S	G		DPT-006 (30-31)		X	4		356185
11/5/19	0830	S	G		DUP-002		X	4		356186
11/5/19	1140	S	G		DPT-006 (30-31) MS		X	4		356185
11/5/19	1140	S	G		DPT-006 (30-31) MSD		X	4		356185
11/5/19	1250	S	G		DPT-005 (24-25)		X	4		356187
11/5/19	1300	S	G		DPT-005 (27-28)		X	4		356188

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600	Fedex	
Received by:	Date/Time	Received for Laboratory by:	Date/Time
	11/9/19 1140		11/11/19 1215

Lab Use Only
Ice Present (Yes) No
Temp 2.2-1 IR Gun 28
Cooler # 5 coolers

E-2895

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

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Lab Use Only
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149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

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Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					Fill in Spaces with Bottles per Test					
11/5/19	1310	S	G		DPT-005 (31-32)		X	4		356189
11/5/19	1500	W	—		EB-001		X	3		356190
11/5/19	1520	S	G		DPT-007 (27-28)		X	4		356191
11/5/19	1530	S	G		DPT-007 (29-30)		X	4		356192
11/5/19	1540	S	G		DPT-007 (31-32)		X	4		356193
11/6/19	0900	S	G		DPT-004 (28-29)		X	4		356194
11/6/19	0910	S	G		DPT-004 (30-31)		X	4		356195
11/6/19	0920	S	G		DPT-004 (32-33)		X	4		356196
11/6/19	1050	S	G		DPT-008 (26-27)		X	4		356197
11/6/19	1100	S	G		DPT-008 (27-28)		X	4		356198
11/6/19	1110	S	G		DPT-008 (29-30)		X	4		356199
11/6/19	1200	S	G		DPT-010 (23-24)		X	4		356200

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600	Fedex	
Received by:	Date/Time	Received for Laboratory by:	Date/Time
[illegible] for ATS	11/9/19 1140	[illegible]	11/11/19 1215

Lab Use Only
Ice Present (Yes) No
Temp 4.2.7 IR Gun 28
Cooler # 5 coolers

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 1009791.1
Location: LHAAP
Sampled By: FEN

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Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address:

Invoice To:* SAMB
EMAIL:
Company:
Address:

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Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOC	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
					Fill in Spaces with Bottles per Test					
11/6/19	1210	S	G		DPT-010 (28-29)		X	4		356201
11/6/19	1220	S	G		DPT-010 (32-33)		X	4		356202
11/6/19	0800	S	G		DUP-003		X	4		356203
11/6/19	1340	S	G		DPT-011 (22-23)		X	4		356204
11/6/19	1350	S	G		DPT-011 (27-28)		X	4		356205
11/6/19	1400	S	G		DPT-011 (31-32)		X	4		356206
11/6/19	1420	GW	G		DPT-002		X	3		356207
11/6/19	1420	GW	G		DPT-002 MS		X	3		356207
11/6/19	1420	GW	G		DPT-002 MSD		X	3		356207
11/6/19	0830	GW	G		DUP-004		X	3		356208
11/6/19	1500	GW	G		DPT-003		X	3		356209
11/6/19	1515	GW	G		DPT-004		X	3		356210

Relinquished By:	Date/Time	Received By:	Date/Time	Lab Use Only
BRIC NORTH	11/08/2019 1600	Fedex		Ice Present (Yes) No
Received by:	Date/Time	Received for Laboratory by:	Date/Time	Temp 2.9 IR Gun 28
for ATJ	11/9/19 1140		11/11/19 MS	Cooler # 5 Coolers

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: –
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

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Lab Use Only
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Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: –

Invoice To:* SAME
EMAIL:
Company:
Address:

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Client Special Instructions
DPT-007 expected to be hot

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	VOC	1,4-Dioxane	TCLP VOC	TCLP SVOC	TCLP Metals/Hg	TCLP Herbicides	TCLP Pesticides	Ignitability	Corrosivity	Reactivity	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test													
11/6/19	1525	GW	G		DPT-009		X										3		356211
11/6/19	1540	GW	G		DPT-006		X										3		356212
11/6/19	1550	GW	G		DPT-007		X										3		356213
11/7/19	0720	GW	G		DPT-001		X	X									5		356214
11/7/19	0800	GW	G		DPT-005		X	X									5		356215
11/7/19	0830	GW	G		DPT-008		X										3		356216
11/7/19	0840	GW	G		DPT-010		X	X									5		356217
11/7/19	1030	S	C		46ADPT-TCLP				X	X	X	X	X	X	X	X	3		356218/219
11/6/19	1600	W	–		EB-002		X										3		356220
11/7/19	0915	GW	G		DPT-011		X										3		356221
11/7/19	1525	GW	G		47WW09			X									2		356222
11/8/19	0700	W	–		EB-003		X	X									5		356223

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600		
Received by:	**Date/Time**	**Received for Laboratory by:**	**Date/Time**
[illegible] AT	11/9/19 1140	[illegible]	11/11/19 1015

Lab Use Only
Ice Present (Yes) No
Temp 2.2-2 IR Gun 28
Cooler # SCooler

E-2898

Rev. 02/2017

CHAIN OF CUSTODY

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

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Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

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Company: HDR
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Invoice To:*
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Client Special Instructions
47WW25R expected to be hot

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

ANALYSES REQUESTED

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	VOC	1,4-Dioxane												Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test																
11/8/19	0915	GW	G		47WW37		X													3		356224
11/8/19	0800	GW	G		DUP-005		X													3		356225
11/8/19	0830	GW	G		DUP-006			X												2		356226
11/8/19	1040	GW	G		47WW25R-35		X	X												5		356227
11/8/19	1040	GW	G		47WW25R-35MS			X												2		356227
11/8/19	1040	GW	G		47WW25R-35MSD			X												2		356227
11/8/19	1130	GW	G		47WW25R-38		X	X												5		356228
11/4/19	0800	TB	—		TB-002		X													2		356229
11/4/19	0800	TB	—		TB-003		X													2		356230

Relinquished By:	Date/Time	Received By:	Date/Time
ERIC NORTH	11/08/2019 1600		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
	11/9/19 1140		11/11/19 1215

Lab Use Only
Ice Present (Yes) No
Temp 4.2-4.7 IR Gun 28
Cooler # 5 coolers

E-2899

Cooler Receipt Form

Ice Present (YES) NO

Temperature 0.6

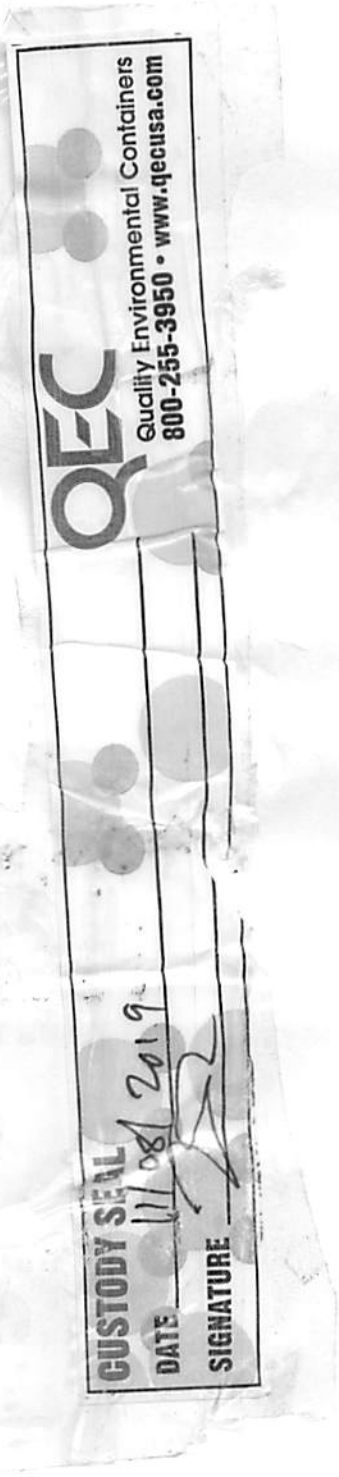
IR Gun # 28

Initials AFS

Date 11.17-9-19 Time 17:40

Cooler #: 6309





Cooler Receipt Form

Ice Present (YES) NO

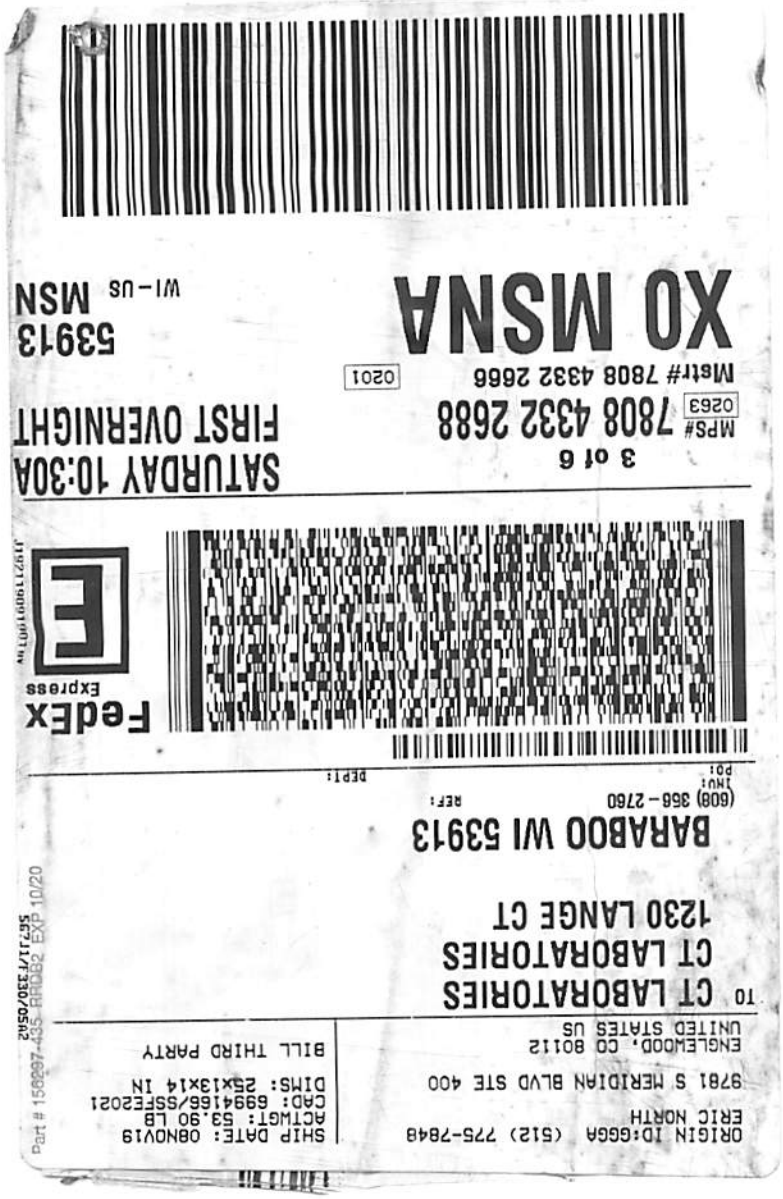
Temperature 2.9

IR Gun # 28

Initials AJS

Date 11-9-19 Time 12:30

Cooler #: 5602





Cooler Receipt Form

Ice Present (YES) NO

Temperature 2.3

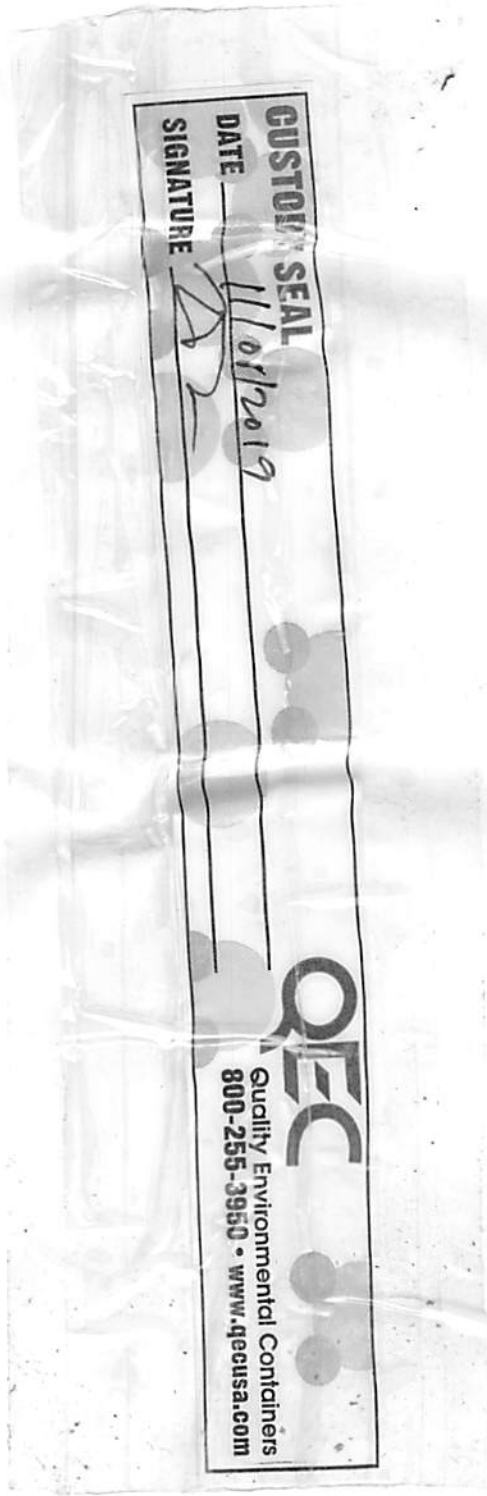
IR Gun # 26

Initials ATS

Date 11-9-19 Time 12:30

Cooler #: G335





Cooler Receipt Form

Ice Present (YES) NO

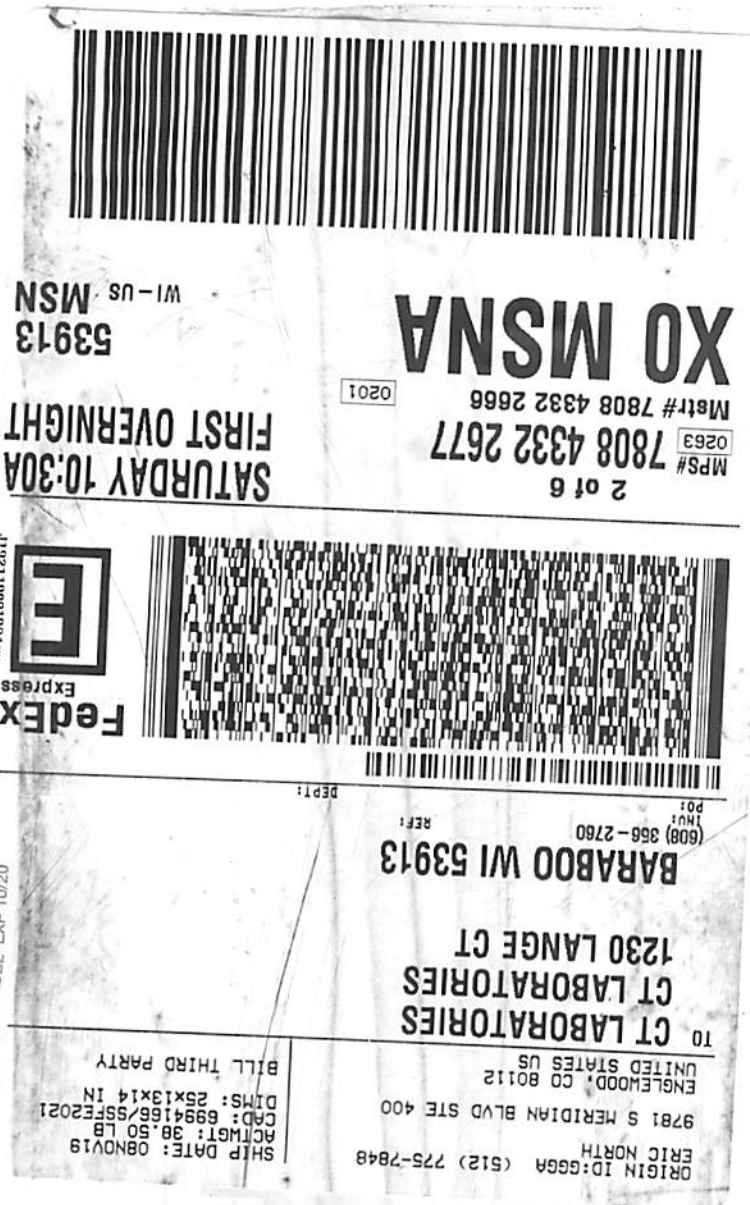
Temperature 1.2

IR Gun # 28

Initials AJS

Date 11-1-19 Time 17:50

Cooler #: 6178





Cooler Receipt Form

Ice Present (YES) NO

Temperature 1

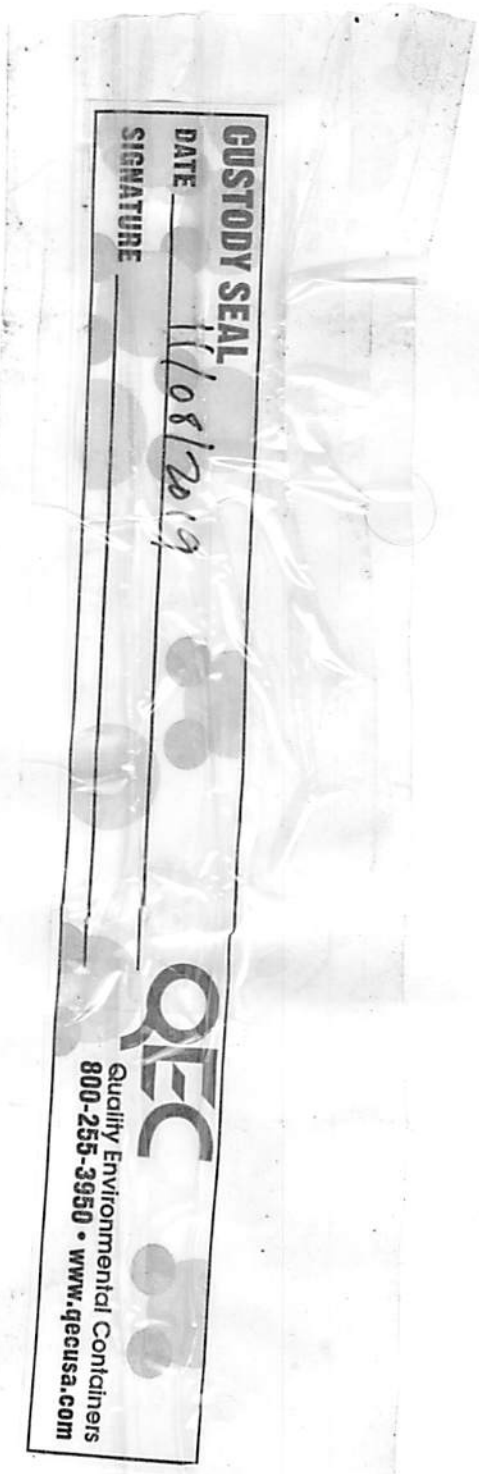
IR Gun # 28

Initials HS

Date 11-9-19 Time 11:50

Cooler #: 6310





DATA VALIDATION REPORT

Volatile Organic Compounds (VOCs) by USEPA SW-846 Method 8260B

Project: USACE Longhorn Army Ammunition Plant (LHAAP), Texas Soils – June 2020 – on-site analysis
Project/Task Number: 10097916 8.0
Sample Data Package: 2908
Laboratory: Pace Analytical Mobile Lab Services, Madison, Wisconsin
Sample Matrix: Soil and Groundwater
Sampling Dates: 02-16 June 2020
Validation Guidelines: Project QAPP *(Final Quality Assurance Project Plan for Longhorn Army Ammunition Plant, Karnack, Texas [July 2014]*); United States Environmental Protection Agency (USEPA) *Test Methods for Evaluating Solid Waste, Physical/Chemical Meth*ods, *3rd edition* (SW-846); *National Functional Guidelines for Organic Superfund Data Review (USEPA, September 2016)* and professional judgment
Validation Level: Stage 2BVM (100% of data), Stage 3VM (10% of data)
Data Reviewer: Lynn K. Lutz, HDR

Sample ID	Lab ID	Date	Matrix	VOCs
47WW13	R202301-02	5/28/20	GW	X
47WW14	R202301-01	5/28/20	GW	X
47WW24	R202301-06	5/29/20	GW	X
47WW25R	R202301-04	5/28/20	GW	X
47WW37	R202301-03	5/28/20	GW	X
LHSMW50	R202301-05	5/29/20	GW	X
DPT-012 (3-4)	R202309-05	6/04/20	Soil	X
DPT-012 (3-4) MS	R202309-05 MS	6/04/20	Soil	X
DPT-012 (3-4) MSD	R202309-05 MSD	6/04/20	Soil	X
DPT-012 (7-8)	R202309-08	6/04/20	Soil	X
DPT-012 (11-12)	R202309-06	6/04/20	Soil	X
DPT-012 (17-18)	R202309-07	6/04/20	Soil	X
DPT-012 (33)	R202404-03	6/09/20	GW	X
DPT-013 (1-2)	R202309-01	6/04/20	Soil	X
DPT-013 (11-12)	R202309-02	6/04/20	Soil	X
DPT-013 (17-18)	R202309-03	6/04/20	Soil	X
DPT-013 (20-21)	R202309-04	6/04/20	Soil	X
DPT-013 (33)	R202404-02	6/09/20	GW	X
DPT-014 (3-4)	R202306-10	6/03/20	Soil	X
DPT-014 (10-11)	R202306-12	6/03/20	Soil	X
DPT-014 (19-20)	R202306-11	6/03/20	Soil	X
DPT-014 (25-26)	R202306-13	6/03/20	Soil	X
DPT-015 (3-4)	R202306-01	6/03/20	Soil	X
DPT-015 (15-16)	R202306-02	6/03/20	Soil	X
DPT-015 (19-20)	R202306-03	6/03/20	Soil	X
DPT-015 (23-24)	R202306-04	6/03/20	Soil	X
DPT-015 (31)	R202308-03	6/04/20	GW	X
DPT-015 (50)	R202308-01	6/04/20	GW	X
DPT-015 (50) MS	R202308-01 MS	6/04/20	GW	X
DPT-015 (50) MSD	R202308-01 MSD	6/04/20	GW	X
DPT-016 (7-8)	R202305-01	6/02/20	Soil	X

Sample ID	Lab ID	Date	Matrix	VOCs
DPT-016 (13-14)	R202305-02	6/02/20	Soil	X
DPT-016 (21-22)	R202305-03	6/02/20	Soil	X
DPT-016 (24-25)	R202305-04	6/02/20	Soil	X
DPT-016 (24-25) MS	R202305-04 MS	6/02/20	Soil	X
DPT-016 (24-25) MSD	R202305-04 MSD	6/02/20	Soil	X
DPT-016 (33)	R202307-02	6/03/20	GW	X
DPT-016 (42)	R202307-01	6/02/20	GW	X
DPT-017 (10-11)	R202306-05	6/03/20	Soil	X
DPT-017 (17-18)	R202306-06	6/03/20	Soil	X
DPT-017 (19-20)	R202306-08	6/03/20	Soil	X
DPT-017 (23-24)	R202306-07	6/03/20	Soil	X
DPT-017 (32)	R202308-05	6/04/20	GW	X
DPT-017 (42)	R202308-04	6/04/20	GW	X
DPT-018 (7-8)	R202302-01	6/01/20	Soil	X
DPT-018 (15-16)	R202302-02	6/01/20	Soil	X
DPT-018 (21-22)	R202302-03	6/01/20	Soil	X
DPT-018 (32-33)	R202302-04	6/01/20	Soil	X
DPT-018 (40)	R202303-02	6/02/20	GW	X
DPT-019 (4-5)	R202302-05	6/01/20	Soil	X
DPT-019 (8-9)	R202302-06	6/01/20	Soil	X
DPT-019 (14-15)	R202302-07	6/01/20	Soil	X
DPT-019 (22-23)	R202302-08	6/01/20	Soil	X
DPT-019 (36)	R202303-01	6/02/20	GW	X
DPT-020 (5-6)	R202309-13	6/04/20	Soil	X
DPT-020 (11-12)	R202309-09	6/04/20	Soil	X
DPT-020 (14-15)	R202309-11	6/04/20	Soil	X
DPT-020 (18-19)	R202309-10	6/04/20	Soil	X
DPT-020 (44)	R202311-02	6/05/20	GW	X
DPT-021 (6-7)	R202309-14	6/04/20	Soil	X
DPT-021 (10-11)	R202309-15	6/04/20	Soil	X
DPT-021 (19-20)	R202309-17	6/04/20	Soil	X
DPT-021 (23-24)	R202309-18	6/04/20	Soil	X
DPT-021 (36)	R202311-01	6/05/20	GW	X
DPT-022 (5-6)	R202310-01	6/05/20	Soil	X
DPT-022 (8-9)	R202310-03	6/05/20	Soil	X
DPT-022 (14-15)	R202310-02	6/05/20	Soil	X
DPT-022 (14-15) MS	R202310-02 MS	6/05/20	Soil	X
DPT-022 (14-15) MSD	R202310-02 MSD	6/05/20	Soil	X
DPT-022 (20-21)	R202310-04	6/05/20	Soil	X
DPT-022 (36)	R202402-01	6/06/20	GW	X
DPT-023 (2-3)	R202401-05	6/07/20	Soil	X
DPT-023 (4-5)	R202401-06	6/07/20	Soil	X
DPT-023 (7-8)	R202401-07	6/07/20	Soil	X
DPT-023 (9-10)	R202401-08	6/07/20	Soil	X
DPT-023 (42)	R202402-04	6/08/20	GW	X
DPT-023 (33)	R202404-04	6/09/20	GW	X
DPT-024 (9-10)	R202403-01	6/08/20	Soil	X
DPT-024 (13-14)	R202403-03	6/08/20	Soil	X
DPT-024 (17-18)	R202403-04	6/08/20	Soil	X
DPT-024 (21-22)	R202403-05	6/08/20	Soil	X
DPT-024 (33)	R202404-01	6/09/20	GW	X
DPT-024 (44)	R202402-05	6/08/20	GW	X
DPT-025 (6-7)	R202405-01	6/09/20	Soil	X
DPT-025 (11-12)	R202405-02	6/09/20	Soil	X

Sample ID	Lab ID	Date	Matrix	VOCs
DPT-025 (11-12) MS	R202405-02 MS	6/09/20	Soil	X
DPT-025 (11-12) MSD	R202405-02 MSD	6/09/20	Soil	X
DPT-025 (17-18)	R202405-03	6/09/20	Soil	X
DPT-025 (22-23)	R202405-04	6/09/20	Soil	X
DPT-025 (36)	R202406-01	6/10/20	GW	X
DPT-025 (36) MS	R202406-01 MS	6/10/20	GW	X
DPT-025 (36) MSD	R202406-01 MSD	6/10/20	GW	X
DPT-026 (3-4)	R202401-01	6/07/20	Soil	X
DPT-026 (16-17)	R202401-02	6/07/20	Soil	X
DPT-026 (17-18)	R202401-03	6/07/20	Soil	X
DPT-026 (26-27)	R202401-04	6/07/20	Soil	X
DPT-026 (36)	R202402-03	6/08/20	GW	X
DPT-026 (45)	R202402-02	6/08/20	GW	X
DPT-027 (2-3)	R202310-07	6/05/20	Soil	X
DPT-027 (5-6)	R202310-08	6/05/20	Soil	X
DPT-027 (8-9)	R202310-05	6/05/20	Soil	X
DPT-027 (11-12)	R202310-06	6/05/20	Soil	X
DPT-027 (17-18)	R202408-12	6/11/20	Soil	X
DPT-027 (22-23)	R202408-13	6/11/20	Soil	X
DPT-027 (33)	R202409-10	6/12/20	GW	X
DPT-028 (10-11)	R202407-01	6/10/20	Soil	X
DPT-028 (10-11) MS	R202407-01 MS	6/10/20	Soil	X
DPT-028 (10-11) MSD	R202407-01 MSD	6/10/20	Soil	X
DPT-028 (13-14)	R202407-02	6/10/20	Soil	X
DPT-028 (16-17)	R202407-03	6/10/20	Soil	X
DPT-028 (21-22)	R202407-05	6/10/20	Soil	X
DPT-028 (48)	R202406-03	6/10/20	GW	X
DPT-029 (7-8)	R202408-01	6/11/20	Soil	X
DPT-029 (7-8) MS	R202408-01 MS	6/11/20	Soil	X
DPT-029 (7-8) MSD	R202408-01 MSD	6/11/20	Soil	X
DPT-029 (13-14)	R202408-03	6/11/20	Soil	X
DPT-029 (17-18)	R202408-04	6/11/20	Soil	X
DPT-029 (21-22)	R202408-05	6/11/20	Soil	X
DPT-029 (34)	R202409-07	6/12/20	GW	X
DPT-029 (45)	R202409-05	6/12/20	GW	X
DPT-029 (45) MS	R202409-05 MS	6/12/20	GW	X
DPT-029 (45) MSD	R202409-05 MSD	6/12/20	GW	X
DPT-030 (10-11)	R202408-07	6/11/20	Soil	X
DPT-030 (15-16)	R202408-09	6/11/20	Soil	X
DPT-030 (17-18)	R202408-10	6/11/20	Soil	X
DPT-030 (19-20)	R202408-11	6/11/20	Soil	X
DPT-030 (19-20) MS	R202408-11 MS	6/11/20	Soil	X
DPT-030 (19-20) MSD	R202408-11 MSD	6/11/20	Soil	X
DPT-031 (3-4)	R202410-02	6/12/20	Soil	X
DPT-031 (12-13)	R202410-01	6/12/20	Soil	X
DPT-031 (12-13) MS	R202410-01 MS	6/12/20	Soil	X
DPT-031 (12-13) MSD	R202410-01 MSD	6/12/20	Soil	X
DPT-031 (16-17)	R202410-03	6/12/20	Soil	X
DPT-031 (21-22)	R202410-04	6/12/20	Soil	X
DPT-031 (33)	R202409-09	6/12/20	GW	X
DPT-032 (12-13)	R202411-01	6/13/20	Soil	X
DPT-032 (15-16)	R202411-02	6/13/20	Soil	X
DPT-032 (19-20)	R202411-03	6/13/20	Soil	X
DPT-032 (21-22)	R202411-04	6/13/20	Soil	X

Sample ID	Lab ID	Date	Matrix	VOCs
DPT-032 (35)	R202412-01	6/13/20	GW	X
DPT-032 (49.5)	R202412-02	6/13/20	GW	X
DPT-033 (8-9)	R202411-05	6/13/20	Soil	X
DPT-033 (12-13)	R202411-06	6/13/20	Soil	X
DPT-033 (19-20)	R202411-07	6/13/20	Soil	X
DPT-033 (22-23)	R202411-08	6/13/20	Soil	X
DPT-033 (33)	R202501-02	6/14/20	GW	X
DPT-033 (49)	R202501-01	6/14/20	GW	X
DPT-034 (8-9)	R202502-01	6/14/20	Soil	X
DPT-034 (15-16)	R202502-02	6/14/20	Soil	X
DPT-034 (18-19)	R202502-03	6/14/20	Soil	X
DPT-034 (22-23)	R202502-04	6/14/20	Soil	X
DPT-034 (33)	R202501-03	6/14/20	GW	X
DPT-035 (10-11)	R202502-05	6/14/20	Soil	X
DPT-035 (15-16)	R202502-06	6/14/20	Soil	X
DPT-035 (18-19)	R202502-07	6/14/20	Soil	X
DPT-035 (21-22)	R202502-08	6/14/20	Soil	X
DPT-035 (33)	R202505-01	6/16/20	GW	X
DPT-035 (49.5)	R202503-01	6/15/20	GW	X
DPT-036 (11-12)	R202504-01	6/15/20	Soil	X
DPT-036 (15-16)	R202504-02	6/15/20	Soil	X
DPT-036 (18-19)	R202504-03	6/15/20	Soil	X
DPT-036 (21-22)	R202504-04	6/15/20	Soil	X
DPT-037 (11-12)	R202504-05	6/15/20	Soil	X
DPT-037 (14-15)	R202504-06	6/15/20	Soil	X
DPT-037 (18-19)	R202504-07	6/15/20	Soil	X
DPT-037 (21-22)	R202504-08	6/15/20	Soil	X
DPT-037 (33)	R202505-02	6/16/20	GW	X
DPT-038 (11-12)	R202504-09	6/15/20	Soil	X
DPT-038 (15-16)	R202504-10	6/15/20	Soil	X
DPT-038 (18-19)	R202504-11	6/15/20	Soil	X
DPT-038 (22-23)	R202504-12	6/15/20	Soil	X
DUP-01	R202305-05	6/02/20	Soil	X
DUP-03	R202306-09	6/03/20	Soil	X
DUP-05	R202308-02	6/04/20	GW	X
DUP-06	R202309-12	6/04/20	Soil	X
DUP-07	R202309-16	6/04/20	Soil	X
DUP-08	R202403-02	6/08/20	Soil	X
DUP-09	R202403-06	6/08/20	Soil	X
DUP-10	R202406-02	6/10/20	GW	X
DUP-11	R202407-04	6/10/20	Soil	X
DUP-12	R202408-02	6/11/20	Soil	X
DUP-13	R202408-06	6/11/20	Soil	X
DUP-14	R202408-08	6/11/20	Soil	X
DUP-15	R202409-06	6/12/20	GW	X
DUP-16	R202409-08	6/12/20	GW	X
EB-01	R202409-01	6/11/20	QC Water	X
EB-02	R202409-02	6/11/20	QC Water	X
EB-03	R202409-03	6/12/20	QC Water	X
EB-04	R202409-04	6/12/20	QC Water	X

SUMMARY

One hundred percent of the data underwent Stage 2BVM level validation. Ten percent of the data underwent Stage 3VM level validation.

Laboratory data were acceptable with qualification as noted below. No data were rejected. Completeness was 100%, which met the goal of 85% for the project.

I. SAMPLE RECEIPT / CHAIN OF CUSTODY

The chains of custody (COC) were filled out and signed. Samples were stored in an on-site refrigerator between collection time and analysis time. No qualification was required.

II. SAMPLES ANALYZED

All planned samples were collected and all scheduled analyses were performed by the on-site lab. Samples were analyzed by USEPA SW-846 Method 8260B. The correct analyte list of eight analytes was reported for soil samples. The analytes were:

1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene chloride	Trichloroethene
1,1-Dichloroethane	trans-1,2-Dichloroethene	Tetrachloroethene	Vinyl chloride

An incorrect analyte list of eight analytes was reported for water samples. The reported analytes were:

1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene chloride	Trichloroethene
1,2-Dichloroethane	trans-1,2-Dichloroethene	Tetrachloroethene	Vinyl chloride

1,2-Dichloroethane was reported instead of the intended 1,1-dichloroethane. The reported list was confirmed in the project kick-off meeting. This list was accepted.

III. HOLDING TIMES AND PRESERVATION

All holding time criteria were met. Soil samples collected on June 01, 2020 did not have a separate fraction collected for percent solid determination, and these sample results were reported on a wet-weight basis and have been qualified as estimated with possible low bias (J-) or non-detect estimated (UJ). The other soils had percent solid results ranging from 79% to 95%, with the average of 87%. The results for the soils reported on a wet-weight basis could be 5% to 26.5% higher than reported if they were corrected for percent solid content. These were the samples reported on a wet-weight basis:

DPT-018 (7-8)	DPT-018 (15-16)	DPT-018 (21-22)	DPT-018 (32-33)
DPT-019 (4-5)	DPT-019 (8-9)	DPT-019 (14-15)	DPT-019 (22-23)

IV. BLANKS

METHOD BLANKS (MBs)

One MB had a detection of methylene chloride at 2.0 µg/L. This analyte was non-detect in all samples and no qualification was required.

TRIP BLANKS (TBs)

TBs were not collected, as the samples were analyzed at an on-site lab.

EQUIPMENT RINSE BLANK
The eight target VOCs were not detected in the four EBs. No qualification was required.

V. LABORATORY CONTROL SAMPLES / LABORATORY CONTROL SAMPLE DUPLICATE (LCS/LCSD)
Recoveries were generally within control limits. Some recoveries of vinyl chloride in the water LCS/LCSDs were 121-126%, above the control limits in the QAPP of 70-120% but within the lab's control limits of 66-141%. Vinyl chloride was non-detect in the samples with these higher recoveries, and no qualification was required.

VI. MATRIX SPIKE / MATRIX SPIKE DUPLICATE (MS/MSD)
These samples were designated on the COCs for MS/MSD analysis:

Soils		GWs
DPT-012 (3-4)	DPT-028 (10-11)	DPT-015 (50)
DPT-016 (24-25)	DPT-029 (7-8)	DPT-025 (36)
DPT-022 (14-15)	DPT-030 (19-20)	DPT-029 (45)
DPT-025 (11-12)	DPT-031 (12-13)	

Recoveries were generally within control limits. Some recoveries of vinyl chloride in the water sample MS/MSDs were 121-133%, above the control limits in the QAPP of 70-120% but within the lab's control limits of 64-147%. Vinyl chloride was non-detect in the parent samples with these higher recoveries, and no qualification was required.

Trichloroethene in the parent sample DPT-028 (10-11) was greater than four times the spike amount, therefore recoveries were not evaluated. The RPD of 9% was within the control limit of 50% and no qualification was required.

Trichloroethene in MS spike of sample DPT-031 (12-13) was recovered at 151%, above the control limits of 75-125% in the QAPP and the lab's control limits of 63-112%. Trichloroethene in this parent sample has been qualified as estimated (J).

VII. FIELD DUPLICATES
Field duplicate (FD) samples were collected as shown in the table below. Control limits listed in the QAPP (RPDs less than 25% for waters and less than 50% for soils) were used.

Field Duplicate Sample	Parent Sample	Field Duplicate Sample	Parent Sample
DUP-01	DPT-16 (24-25)	DUP-10	DPT-25 (36)
DUP-03	DPT-17 (19-20)	DUP-11	DPT-28 (16-17)
DUP-05	DPT-15 (50)	DUP-12	DPT-29 (7-8)
DUP-06	DPT-20 (14-15)	DUP-13	DPT-29 (21-22)
DUP-07	DPT-21 (19-20)	DUP-14	DPT-30 (10-11)
DUP-08	DPT-24 (9-10)	DUP-15	DPT-29 (45)
DUP-09	DPT-24 (21-22)	DUP-16	DPT-29 (34)

VOCs: Results were within the control limits except as shown in the table below.

Parent / FD pair	Analyte	Concentrations	RPD	RPD Control Limit	Qualifier
DPT-25 (36) DUP-10	cis-1,2-Dichloroethene	8.1 / 26 µg/L	105%	25%	J / J
	Trichloroethene	660 / 1600 µg/L	83%	25%	J / J

VIII. LABORATORY DUPLICATES

Laboratory duplicate (LD) analyses were not performed on any samples from this project.

IX. INSTRUMENT CALIBRATION

INITIAL CALIBRATION

VOCs: The calibration curve included a standard at or below the LOQ. Calibration requirements were met. No qualification was required.

INITIAL CALIBRATION VERIFICATION (ICV)

VOCs: Vinyl chloride in the ICVs had percent difference (%D) values of +21% to +25%, above the required limit of 20%. Vinyl chloride was non-detect in the samples and no qualification was required.

CONTINUING CALIBRATION VERIFICATION (CCV)

VOCs: Some analytes had percent difference (%D) values above the required limit of 20% and the associated samples required qualification as shown in the table below.

CCV	Analyte	%D	Associated samples	Qualification
6/3/2020 05:14	Methylene chloride	+41%	--	None - ND
6/3/2020 09:26	Methylene chloride	+23%	--	None - ND
6/14/2020 08:33	Vinyl chloride	+34%	--	None - ND

X. SURROGATES AND INTERNAL STANDARDS

VOCs: Internal standard areas and retention times were within required limits. No qualification was required.

Some surrogate recoveries were within the lab's control limits but outside the narrower limits listed in the QAPP, and sample results were qualified as shown in the table below. Other samples had one surrogate recovery outside control limits and three recoveries within control limits; in these cases, no qualification was required.

Sample	Surrogate	Recovery	Control Limits	Qualifier
DPT-018 (7-8)	BFB Toluene-d8 1,2-DCB-d4	74% 83% 81%	85-120% 85-115% Not listed	All analytes UJ / J-
DPT-013 (17-18)	BFB Toluene-d8 1,2-DCB-d4	67% 77% 77%	85-120% 85-115% Not listed	All analytes UJ / J-

Sample	Surrogate	Recovery	Control Limits	Qualifier
DPT-012 (17-18)	BFB Toluene-d8 1,2-DCB-d4	70% 80% 82%	85-120% 85-115% Not listed	All analytes UJ
DPT-020 (11-12)	BFB Toluene-d8	75% 84%	85-120% 85-115%	All analytes UJ
DPT-020 (18-19)	BFB Toluene-d8 1,2-DCB-d4	69% 81% 84%	85-120% 85-115% Not listed	All analytes UJ
DPT-020 (14-15)	BFB Toluene-d8 1,2-DCB-d4	70% 80% 81%	85-120% 85-115% Not listed	All analytes UJ
DUP-06	BFB Toluene-d8 1,2-DCB-d4	73% 83% 85%	85-120% 85-115% Not listed	All analytes UJ / J-
DPT-020 (5-6)	BFB Toluene-d8 1,2-DCB-d4	71% 79% 85%	85-120% 85-115% Not listed	All analytes UJ
DPT-021 (19-20)	BFB Toluene-d8 1,2-DCB-d4	65% 71% 71%	85-120% 85-115% Not listed	All analytes UJ
DPT-027 (2-3)	BFB Toluene-d8	74% 84%	85-120% 85-115%	All analytes UJ
DPT-026 (17-18)	BFB Toluene-d8 1,2-DCB-d4	74% 82% 86%	85-120% 85-115% Not listed	All analytes UJ
DUP-09	BFB Toluene-d8 1,2-DCB-d4	57% 68% 67%	85-120% 85-115% Not listed	All analytes UJ

XI. SAMPLE LIMITS OF QUANTITATION (LOQs)

Limits of quantitation (LOQs) should be less than the applicable project action levels (PALs) as listed in the project QAPP.

VOCs: Nominal LOQs (before dilutions) were below the PALs listed in the QAPP.

XII. SAMPLE RESULTS / TRANSCRIPTION VERIFICATION

Transcription between the data package and the EDDs was verified. Results were reported at or above the LOQs.

VOCs: No issues.

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

July 1, 2020

Lynn Lutz
HDR
9781 S. Meridian Blvd., Suite 400
Englewood, CO 80112

RE: Longhorn Army Ammunition Plant (AAP)

Enclosed are the analytical results for the samples received by the laboratory on the dates listed on the following page(s).

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Ben Claas

Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2021
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2021
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2021
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2021
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2020
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2020
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2020

Case Narrative

Data Quality Objectives
Pace Mobile Lab provided onsite services to support HDR for a soil and groundwater investigation from June 1 through 15, 2020. Water samples were delivered in unpreserved 40 mL VOA vials. Soil samples were delivered in Lock-n-Load sampling containers, with extra volume supplied for total solids determination. HDR requested a custom list of chlorinated volatile organic compounds for each matrix.

Sample Receipt Information:
The samples were hand delivered to the on-site mobile laboratory and were received in acceptable condition.

Please see the chain of custodies (COC) document at the end of this report for additional information.

Hold Time:
The samples were extracted and analyzed within the method required hold time.

Sample Preparation and Analysis:
The samples were prepared and analyzed in accordance with applicable method SOP, ENV-SOP-MAD1-0033.

Initial Calibration:
All criteria were within method requirements.

Continuing Calibration Verification (CCV):
All criteria were within method requirements.

Method Blanks:
The method blanks had no detects, except where noted.

Laboratory Control Samples (LCSs):
The LCS had acceptable recoveries for all analytes.

Matrix Spike / Matrix Spike Duplicates (MS/MSDs):
The MS/MSDs had acceptable recoveries for all analytes, except where noted.

Additional Comments:
The client sample names were modified in the peer review process to achieve a consistent format throughout the project. These changes will be reflected in the final report.

No additional soil volume was provided for the total solids analysis for soils collected on 06/01/2020. These results are reported on an as-is (wet weight) basis.

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
47WW14	R202301-01	Water	05/28/2020	06/02/2020
47WW13	R202301-02	Water	05/28/2020	06/02/2020
47WW37	R202301-03	Water	05/28/2020	06/02/2020
47WW25R	R202301-04	Water	05/28/2020	06/02/2020
LHSMW50	R202301-05	Water	05/29/2020	06/02/2020
47WW24	R202301-06	Water	05/29/2020	06/02/2020
DPT-018 (7-8)	R202302-01	Soil	06/01/2020	06/02/2020
DPT-018 (15-16)	R202302-02	Soil	06/01/2020	06/02/2020
DPT-018 (21-22)	R202302-03	Soil	06/01/2020	06/02/2020
DPT-018 (32-33)	R202302-04	Soil	06/01/2020	06/02/2020
DPT-019 (4-5)	R202302-05	Soil	06/01/2020	06/02/2020
DPT-019 (8-9)	R202302-06	Soil	06/01/2020	06/02/2020
DPT-019 (14-15)	R202302-07	Soil	06/01/2020	06/02/2020
DPT-019 (22-23)	R202302-08	Soil	06/01/2020	06/02/2020
DPT-019 (36)	R202303-01	Water	06/02/2020	06/02/2020
DPT-018 (40)	R202303-02	Water	06/02/2020	06/02/2020
DPT-016 (7-8)	R202305-01	Soil	06/02/2020	06/02/2020
DPT-016 (13-14)	R202305-02	Soil	06/02/2020	06/02/2020
DPT-016 (21-22)	R202305-03	Soil	06/02/2020	06/02/2020
DPT-016 (24-25)	R202305-04	Soil	06/02/2020	06/02/2020
DUP-01	R202305-05	Soil	06/02/2020	06/02/2020
DPT-015 (3-4)	R202306-01	Soil	06/03/2020	06/03/2020
DPT-015 (15-16)	R202306-02	Soil	06/03/2020	06/03/2020
DPT-015 (19-20)	R202306-03	Soil	06/03/2020	06/03/2020
DPT-015 (23-24)	R202306-04	Soil	06/03/2020	06/03/2020
DPT-017 (10-11)	R202306-05	Soil	06/03/2020	06/03/2020
DPT-017 (17-18)	R202306-06	Soil	06/03/2020	06/03/2020
DPT-017 (23-24)	R202306-07	Soil	06/03/2020	06/03/2020
DPT-017 (19-20)	R202306-08	Soil	06/03/2020	06/03/2020
DUP-03	R202306-09	Soil	06/03/2020	06/03/2020
DPT-014 (3-4)	R202306-10	Soil	06/03/2020	06/03/2020
DPT-014 (19-20)	R202306-11	Soil	06/03/2020	06/03/2020
DPT-014 (10-11)	R202306-12	Soil	06/03/2020	06/03/2020
DPT-014 (25-26)	R202306-13	Soil	06/03/2020	06/03/2020

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ANALYTICAL REPORT FOR SAMPLES

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DPT-016 (42)	R202307-01	Water	06/02/2020	06/03/2020
DPT-016 (33)	R202307-02	Water	06/03/2020	06/03/2020
DPT-015 (50)	R202308-01	Water	06/04/2020	06/04/2020
DUP-05	R202308-02	Water	06/04/2020	06/04/2020
DPT-015 (31)	R202308-03	Water	06/04/2020	06/04/2020
DPT-017 (42)	R202308-04	Water	06/04/2020	06/04/2020
DPT-017 (32)	R202308-05	Water	06/04/2020	06/04/2020
DPT-013 (1-2)	R202309-01	Soil	06/04/2020	06/04/2020
DPT-013 (11-12)	R202309-02	Soil	06/04/2020	06/04/2020
DPT-013 (17-18)	R202309-03	Soil	06/04/2020	06/04/2020
DPT-013 (20-21)	R202309-04	Soil	06/04/2020	06/04/2020
DPT-012 (3-4)	R202309-05	Soil	06/04/2020	06/04/2020
DPT-012 (11-12)	R202309-06	Soil	06/04/2020	06/04/2020
DPT-012 (17-18)	R202309-07	Soil	06/04/2020	06/04/2020
DPT-012 (7-8)	R202309-08	Soil	06/04/2020	06/04/2020
DPT-020 (11-12)	R202309-09	Soil	06/04/2020	06/04/2020
DPT-020 (18-19)	R202309-10	Soil	06/04/2020	06/04/2020
DPT-020 (14-15)	R202309-11	Soil	06/04/2020	06/04/2020
DUP-06	R202309-12	Soil	06/04/2020	06/04/2020
DPT-020 (5-6)	R202309-13	Soil	06/04/2020	06/04/2020
DPT-021 (6-7)	R202309-14	Soil	06/04/2020	06/04/2020
DPT-021 (10-11)	R202309-15	Soil	06/04/2020	06/04/2020
DUP-07	R202309-16	Soil	06/04/2020	06/04/2020
DPT-021 (19-20)	R202309-17	Soil	06/04/2020	06/04/2020
DPT-021 (23-24)	R202309-18	Soil	06/04/2020	06/04/2020
DPT-022 (5-6)	R202310-01	Soil	06/05/2020	06/05/2020
DPT-022 (14-15)	R202310-02	Soil	06/05/2020	06/05/2020
DPT-022 (8-9)	R202310-03	Soil	06/05/2020	06/05/2020
DPT-022 (20-21)	R202310-04	Soil	06/05/2020	06/05/2020
DPT-027 (8-9)	R202310-05	Soil	06/05/2020	06/05/2020
DPT-027 (11-12)	R202310-06	Soil	06/05/2020	06/05/2020
DPT-027 (2-3)	R202310-07	Soil	06/05/2020	06/05/2020
DPT-027 (5-6)	R202310-08	Soil	06/05/2020	06/05/2020
DPT-021 (36)	R202311-01	Water	06/05/2020	06/05/2020

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DPT-020 (44)	R202311-02	Water	06/05/2020	06/05/2020
DPT-026 (3-4)	R202401-01	Soil	06/07/2020	06/08/2020
DPT-026 (16-17)	R202401-02	Soil	06/07/2020	06/08/2020
DPT-026 (17-18)	R202401-03	Soil	06/07/2020	06/08/2020
DPT-026 (26-27)	R202401-04	Soil	06/07/2020	06/08/2020
DPT-023 (2-3)	R202401-05	Soil	06/07/2020	06/08/2020
DPT-023 (4-5)	R202401-06	Soil	06/07/2020	06/08/2020
DPT-023 (7-8)	R202401-07	Soil	06/07/2020	06/08/2020
DPT-023 (9-10)	R202401-08	Soil	06/07/2020	06/08/2020
DPT-022 (36)	R202402-01	Water	06/06/2020	06/08/2020
DPT-026 (45)	R202402-02	Water	06/08/2020	06/08/2020
DPT-026 (36)	R202402-03	Water	06/08/2020	06/08/2020
DPT-023 (42)	R202402-04	Water	06/08/2020	06/08/2020
DPT-024 (44)	R202402-05	Water	06/08/2020	06/08/2020
DPT-024 (9-10)	R202403-01	Soil	06/08/2020	06/08/2020
DUP-08	R202403-02	Soil	06/08/2020	06/08/2020
DPT-024 (13-14)	R202403-03	Soil	06/08/2020	06/08/2020
DPT-024 (17-18)	R202403-04	Soil	06/08/2020	06/08/2020
DPT-024 (21-22)	R202403-05	Soil	06/08/2020	06/08/2020
DUP-09	R202403-06	Soil	06/08/2020	06/08/2020
DPT-024 (33)	R202404-01	Water	06/09/2020	06/09/2020
DPT-013 (33)	R202404-02	Water	06/09/2020	06/09/2020
DPT-012 (33)	R202404-03	Water	06/09/2020	06/09/2020
DPT-023 (33)	R202404-04	Water	06/09/2020	06/09/2020
DPT-025 (6-7)	R202405-01	Soil	06/09/2020	06/09/2020
DPT-025 (11-12)	R202405-02	Soil	06/09/2020	06/09/2020
DPT-025 (17-18)	R202405-03	Soil	06/09/2020	06/09/2020
DPT-025 (22-23)	R202405-04	Soil	06/09/2020	06/09/2020
DPT-025 (36)	R202406-01	Water	06/10/2020	06/10/2020
DUP-10	R202406-02	Water	06/10/2020	06/10/2020
DPT-028 (48)	R202406-03	Water	06/10/2020	06/10/2020
DPT-028 (10-11)	R202407-01	Soil	06/10/2020	06/10/2020
DPT-028 (13-14)	R202407-02	Soil	06/10/2020	06/10/2020
DPT-028 (16-17)	R202407-03	Soil	06/10/2020	06/10/2020

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DUP-011	R202407-04	Soil	06/10/2020	06/10/2020
DPT-028 (21-22)	R202407-05	Soil	06/10/2020	06/10/2020
DPT-029 (7-8)	R202408-01	Soil	06/11/2020	06/11/2020
DUP-12	R202408-02	Soil	06/11/2020	06/11/2020
DPT-029 (13-14)	R202408-03	Soil	06/11/2020	06/11/2020
DPT-029 (17-18)	R202408-04	Soil	06/11/2020	06/11/2020
DPT-029 (21-22)	R202408-05	Soil	06/11/2020	06/11/2020
DUP-13	R202408-06	Soil	06/11/2020	06/11/2020
DPT-030 (10-11)	R202408-07	Soil	06/11/2020	06/11/2020
DUP-14	R202408-08	Soil	06/11/2020	06/11/2020
DPT-030 (15-16)	R202408-09	Soil	06/11/2020	06/11/2020
DPT-030 (17-18)	R202408-10	Soil	06/11/2020	06/11/2020
DPT-030 (19-20)	R202408-11	Soil	06/11/2020	06/11/2020
DPT-027 (17-18)	R202408-12	Soil	06/11/2020	06/11/2020
DPT-027 (22-23)	R202408-13	Soil	06/11/2020	06/11/2020
EB-01	R202409-01	Water	06/11/2020	06/11/2020
EB-02	R202409-02	Water	06/11/2020	06/11/2020
EB-03	R202409-03	Water	06/12/2020	06/12/2020
EB-04	R202409-04	Water	06/12/2020	06/12/2020
DPT-029 (45)	R202409-05	Water	06/12/2020	06/12/2020
DUP-15	R202409-06	Water	06/12/2020	06/12/2020
DPT-029 (34)	R202409-07	Water	06/12/2020	06/12/2020
DUP-16	R202409-08	Water	06/12/2020	06/12/2020
DPT-031 (33)	R202409-09	Water	06/12/2020	06/12/2020
DPT-027 (33)	R202409-10	Water	06/12/2020	06/12/2020
DPT-031 (12-13)	R202410-01	Soil	06/12/2020	06/12/2020
DPT-031 (3-4)	R202410-02	Soil	06/12/2020	06/12/2020
DPT-031 (16-17)	R202410-03	Soil	06/12/2020	06/12/2020
DPT-031 (21-22)	R202410-04	Soil	06/12/2020	06/12/2020
DPT-032 (12-13)	R202411-01	Soil	06/13/2020	06/13/2020
DPT-032 (15-16)	R202411-02	Soil	06/13/2020	06/13/2020
DPT-032 (19-20)	R202411-03	Soil	06/13/2020	06/13/2020
DPT-032 (21-22)	R202411-04	Soil	06/13/2020	06/13/2020
DPT-033 (8-9)	R202411-05	Soil	06/13/2020	06/13/2020

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DPT-033 (12-13)	R202411-06	Soil	06/13/2020	06/13/2020
DPT-033 (19-20)	R202411-07	Soil	06/13/2020	06/13/2020
DPT-033 (22-23)	R202411-08	Soil	06/13/2020	06/13/2020
DPT-032 (35)	R202412-01	Water	06/13/2020	06/13/2020
DPT-032 (49.5)	R202412-02	Water	06/13/2020	06/13/2020
DPT-033 (049)	R202501-01	Water	06/14/2020	06/14/2020
DPT-033 (033)	R202501-02	Water	06/14/2020	06/14/2020
DPT-034 (033)	R202501-03	Water	06/14/2020	06/14/2020
DPT-034 (8-9)	R202502-01	Soil	06/14/2020	06/14/2020
DPT-034 (15-16)	R202502-02	Soil	06/14/2020	06/14/2020
DPT-034 (18-19)	R202502-03	Soil	06/14/2020	06/14/2020
DPT-034 (22-23)	R202502-04	Soil	06/14/2020	06/14/2020
DPT-035 (10-11)	R202502-05	Soil	06/14/2020	06/14/2020
DPT-035 (15-16)	R202502-06	Soil	06/14/2020	06/14/2020
DPT-035 (18-19)	R202502-07	Soil	06/14/2020	06/14/2020
DPT-035 (21-22)	R202502-08	Soil	06/14/2020	06/14/2020
DPT-035 (49.5)	R202503-01	Water	06/15/2020	06/15/2020
DPT-036 (11-12)	R202504-01	Soil	06/15/2020	06/15/2020
DPT-036 (15-16)	R202504-02	Soil	06/15/2020	06/15/2020
DPT-036 (18-19)	R202504-03	Soil	06/15/2020	06/15/2020
DPT-036 (21-22)	R202504-04	Soil	06/15/2020	06/15/2020
DPT-037 (11-12)	R202504-05	Soil	06/15/2020	06/15/2020
DPT-037 (14-15)	R202504-06	Soil	06/15/2020	06/15/2020
DPT-037 (18-19)	R202504-07	Soil	06/15/2020	06/15/2020
DPT-037 (21-22)	R202504-08	Soil	06/15/2020	06/15/2020
DPT-038 (11-12)	R202504-09	Soil	06/15/2020	06/15/2020
DPT-038 (15-16)	R202504-10	Soil	06/15/2020	06/15/2020
DPT-038 (18-19)	R202504-11	Soil	06/15/2020	06/15/2020
DPT-038 (22-23)	R202504-12	Soil	06/15/2020	06/15/2020
DPT-035 (33)	R202505-01	Water	06/16/2020	06/16/2020
DPT-037 (33)	R202505-02	Water	06/16/2020	06/16/2020

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47WW14

R202301-01 (Water)

Date Sampled
05/28/2020 14:20

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006002**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/04/2020 00:08	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/02/2020	06/04/2020 00:08	EPA 8260B	
cis-1,2-Dichloroethene	**60**	2.5	ug/L	5	06/02/2020	06/05/2020 16:43	EPA 8260B	D
Methylene chloride	ND	2.0	ug/L	1	06/02/2020	06/04/2020 00:08	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/02/2020	06/04/2020 00:08	EPA 8260B	
trans-1,2-Dichloroethene	**8.2**	0.50	ug/L	1	06/02/2020	06/04/2020 00:08	EPA 8260B	
Trichloroethene	**37**	0.50	ug/L	1	06/02/2020	06/04/2020 00:08	EPA 8260B	
Vinyl chloride	**0.80**	0.50	ug/L	1	06/02/2020	06/04/2020 00:08	EPA 8260B	
Surrogate: Toluene-d8		*93.9 %*		*82.5-107*	*06/02/2020*	*06/04/2020 00:08*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.9 %*		*78.3-109*	*06/02/2020*	*06/04/2020 00:08*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*100 %*		*80-120*	*06/02/2020*	*06/04/2020 00:08*	*EPA 8260B*	

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Project Manager: Lynn Lutz

47WW13

R202301-02 (Water)

Date Sampled
05/28/2020 15:30

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006002**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	**0.81**	0.50	ug/L	1	06/02/2020	06/04/2020 00:35	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/02/2020	06/04/2020 00:35	EPA 8260B	
cis-1,2-Dichloroethene	**170**	5.0	ug/L	10	06/02/2020	06/05/2020 17:14	EPA 8260B	D
Methylene chloride	ND	2.0	ug/L	1	06/02/2020	06/04/2020 00:35	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/02/2020	06/04/2020 00:35	EPA 8260B	
trans-1,2-Dichloroethene	**1.3**	0.50	ug/L	1	06/02/2020	06/04/2020 00:35	EPA 8260B	
Trichloroethene	**120**	5.0	ug/L	10	06/02/2020	06/05/2020 17:14	EPA 8260B	D
Vinyl chloride	**4.0**	0.50	ug/L	1	06/02/2020	06/04/2020 00:35	EPA 8260B	
Surrogate: Toluene-d8		*95.2 %*		*82.5-107*	*06/02/2020*	*06/04/2020 00:35*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.3 %*		*78.3-109*	*06/02/2020*	*06/04/2020 00:35*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*98.8 %*		*80-120*	*06/02/2020*	*06/04/2020 00:35*	*EPA 8260B*	

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Englewood CO, 80112	Project Manager: Lynn Lutz

47WW37

R202301-03 (Water)

Date Sampled
05/28/2020 16:30

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006002**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/04/2020 01:02	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/02/2020	06/04/2020 01:02	EPA 8260B	
cis-1,2-Dichloroethene	**12**	0.50	ug/L	1	06/02/2020	06/04/2020 01:02	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/02/2020	06/04/2020 01:02	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/02/2020	06/04/2020 01:02	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/04/2020 01:02	EPA 8260B	
Trichloroethene	**180**	5.0	ug/L	10	06/02/2020	06/05/2020 17:45	EPA 8260B	D
Vinyl chloride	ND	0.50	ug/L	1	06/02/2020	06/04/2020 01:02	EPA 8260B	
Surrogate: Toluene-d8		*93.1 %*		*82.5-107*	*06/02/2020*	*06/04/2020 01:02*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*83.7 %*		*78.3-109*	*06/02/2020*	*06/04/2020 01:02*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*101 %*		*80-120*	*06/02/2020*	*06/04/2020 01:02*	*EPA 8260B*	

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Englewood CO, 80112	Project Manager: Lynn Lutz

47WW25R

R202301-04 (Water)

Date Sampled
05/28/2020 17:20

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006002**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	**14**	0.50	ug/L	1	06/02/2020	06/04/2020 01:29	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/02/2020	06/04/2020 01:29	EPA 8260B	
cis-1,2-Dichloroethene	**2500**	500	ug/L	1000	06/02/2020	06/05/2020 18:19	EPA 8260B	D
Methylene chloride	ND	2.0	ug/L	1	06/02/2020	06/04/2020 01:29	EPA 8260B	
Tetrachloroethene	**0.90**	0.50	ug/L	1	06/02/2020	06/04/2020 01:29	EPA 8260B	
trans-1,2-Dichloroethene	**7.8**	0.50	ug/L	1	06/02/2020	06/04/2020 01:29	EPA 8260B	
Trichloroethene	**120000**	2500	ug/L	5000	06/02/2020	06/07/2020 12:08	EPA 8260B	D
Vinyl chloride	**25**	0.50	ug/L	1	06/02/2020	06/04/2020 01:29	EPA 8260B	
Surrogate: Toluene-d8		*89.2 %*		*82.5-107*	*06/02/2020*	*06/04/2020 01:29*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.7 %*		*78.3-109*	*06/02/2020*	*06/04/2020 01:29*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*99.5 %*		*80-120*	*06/02/2020*	*06/04/2020 01:29*	*EPA 8260B*	

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LHSMW50

R202301-05 (Water)

Date Sampled
05/29/2020 07:35

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006002**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:21	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:21	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:21	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/02/2020	06/05/2020 12:21	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:21	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:21	EPA 8260B	
Trichloroethene	**0.60**	0.50	ug/L	1	06/02/2020	06/05/2020 12:21	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:21	EPA 8260B	
Surrogate: Toluene-d8		*94.5 %*		*82.5-107*	*06/02/2020*	*06/05/2020 12:21*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.2 %*		*78.3-109*	*06/02/2020*	*06/05/2020 12:21*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.0 %*		*80-120*	*06/02/2020*	*06/05/2020 12:21*	*EPA 8260B*	

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47WW24

R202301-06 (Water)

Date Sampled
05/29/2020 08:35

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006002**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:49	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:49	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:49	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/02/2020	06/05/2020 12:49	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:49	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:49	EPA 8260B	
Trichloroethene	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:49	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/02/2020	06/05/2020 12:49	EPA 8260B	
Surrogate: Toluene-d8		*95.7 %*		*82.5-107*	*06/02/2020*	*06/05/2020 12:49*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*82.7 %*		*78.3-109*	*06/02/2020*	*06/05/2020 12:49*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*99.9 %*		*80-120*	*06/02/2020*	*06/05/2020 12:49*	*EPA 8260B*	

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DPT-018 (7-8)

R202302-01 (Soil)

Date Sampled
06/01/2020 15:05

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006001**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethane	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 19:36	EPA 8260B	
1,1-Dichloroethene	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 19:36	EPA 8260B	
cis-1,2-Dichloroethene	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 19:36	EPA 8260B	
Methylene chloride	ND	96	ug/kg wet	1	06/02/2020	06/02/2020 19:36	EPA 8260B	
Tetrachloroethene	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 19:36	EPA 8260B	
trans-1,2-Dichloroethene	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 19:36	EPA 8260B	
Trichloroethene	**210**	24	ug/kg wet	1	06/02/2020	06/02/2020 19:36	EPA 8260B	
Vinyl chloride	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 19:36	EPA 8260B	
Surrogate: Toluene-d8		*83.4 %*		*61.9-110*	*06/02/2020*	*06/02/2020 19:36*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*74.3 %*		*59.1-115*	*06/02/2020*	*06/02/2020 19:36*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*80.6 %*		*80-120*	*06/02/2020*	*06/02/2020 19:36*	*EPA 8260B*	

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DPT-018 (15-16)
R202302-02 (Soil)

Date Sampled
06/01/2020 15:15

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006001**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethane	ND	30	ug/kg wet	1	06/02/2020	06/02/2020 21:27	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg wet	1	06/02/2020	06/02/2020 21:27	EPA 8260B	
cis-1,2-Dichloroethene	ND	30	ug/kg wet	1	06/02/2020	06/02/2020 21:27	EPA 8260B	
Methylene chloride	ND	120	ug/kg wet	1	06/02/2020	06/02/2020 21:27	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg wet	1	06/02/2020	06/02/2020 21:27	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg wet	1	06/02/2020	06/02/2020 21:27	EPA 8260B	
Trichloroethene	**470**	30	ug/kg wet	1	06/02/2020	06/02/2020 21:27	EPA 8260B	
Vinyl chloride	ND	30	ug/kg wet	1	06/02/2020	06/02/2020 21:27	EPA 8260B	
Surrogate: Toluene-d8		*96.2 %*	*61.9-110*		*06/02/2020*	*06/02/2020 21:27*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*88.4 %*	*59.1-115*		*06/02/2020*	*06/02/2020 21:27*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*97.8 %*	*80-120*		*06/02/2020*	*06/02/2020 21:27*	*EPA 8260B*	

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DPT-018 (21-22)
R202302-03 (Soil)

Date Sampled
06/01/2020 15:25

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006001**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethane	ND	31	ug/kg wet	1	06/02/2020	06/02/2020 21:55	EPA 8260B	
1,1-Dichloroethene	ND	31	ug/kg wet	1	06/02/2020	06/02/2020 21:55	EPA 8260B	
cis-1,2-Dichloroethene	ND	31	ug/kg wet	1	06/02/2020	06/02/2020 21:55	EPA 8260B	
Methylene chloride	ND	120	ug/kg wet	1	06/02/2020	06/02/2020 21:55	EPA 8260B	
Tetrachloroethene	ND	31	ug/kg wet	1	06/02/2020	06/02/2020 21:55	EPA 8260B	
trans-1,2-Dichloroethene	ND	31	ug/kg wet	1	06/02/2020	06/02/2020 21:55	EPA 8260B	
Trichloroethene	**58**	31	ug/kg wet	1	06/02/2020	06/02/2020 21:55	EPA 8260B	
Vinyl chloride	ND	31	ug/kg wet	1	06/02/2020	06/02/2020 21:55	EPA 8260B	
Surrogate: Toluene-d8		*95.9 %*	*61.9-110*		*06/02/2020*	*06/02/2020 21:55*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.6 %*	*59.1-115*		*06/02/2020*	*06/02/2020 21:55*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.7 %*	*80-120*		*06/02/2020*	*06/02/2020 21:55*	*EPA 8260B*	

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DPT-018 (32-33)

R202302-04 (Soil)

Date Sampled
06/01/2020 16:05

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006001**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethane	ND	27	ug/kg wet	1	06/02/2020	06/02/2020 22:23	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg wet	1	06/02/2020	06/02/2020 22:23	EPA 8260B	
cis-1,2-Dichloroethene	**480**	27	ug/kg wet	1	06/02/2020	06/02/2020 22:23	EPA 8260B	
Methylene chloride	ND	110	ug/kg wet	1	06/02/2020	06/02/2020 22:23	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg wet	1	06/02/2020	06/02/2020 22:23	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg wet	1	06/02/2020	06/02/2020 22:23	EPA 8260B	
Trichloroethene	**15000**	540	ug/kg wet	20	06/02/2020	06/03/2020 13:46	EPA 8260B	D
Vinyl chloride	ND	27	ug/kg wet	1	06/02/2020	06/02/2020 22:23	EPA 8260B	
Surrogate: Toluene-d8		*96.2 %*		*61.9-110*	*06/02/2020*	*06/02/2020 22:23*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*88.4 %*		*59.1-115*	*06/02/2020*	*06/02/2020 22:23*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.9 %*		*80-120*	*06/02/2020*	*06/02/2020 22:23*	*EPA 8260B*	

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DPT-019 (4-5)

R202302-05 (Soil)

Date Sampled
06/01/2020 09:55

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006001**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethane	ND	29	ug/kg wet	1	06/02/2020	06/02/2020 22:50	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg wet	1	06/02/2020	06/02/2020 22:50	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg wet	1	06/02/2020	06/02/2020 22:50	EPA 8260B	
Methylene chloride	ND	120	ug/kg wet	1	06/02/2020	06/02/2020 22:50	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg wet	1	06/02/2020	06/02/2020 22:50	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg wet	1	06/02/2020	06/02/2020 22:50	EPA 8260B	
Trichloroethene	**30**	29	ug/kg wet	1	06/02/2020	06/02/2020 22:50	EPA 8260B	
Vinyl chloride	ND	29	ug/kg wet	1	06/02/2020	06/02/2020 22:50	EPA 8260B	
Surrogate: Toluene-d8		*91.2 %*		*61.9-110*	*06/02/2020*	*06/02/2020 22:50*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.3 %*		*59.1-115*	*06/02/2020*	*06/02/2020 22:50*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*93.9 %*		*80-120*	*06/02/2020*	*06/02/2020 22:50*	*EPA 8260B*	

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DPT-019 (8-9)

R202302-06 (Soil)

Date Sampled
06/01/2020 10:15

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006001**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethane	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 23:17	EPA 8260B	
1,1-Dichloroethene	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 23:17	EPA 8260B	
cis-1,2-Dichloroethene	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 23:17	EPA 8260B	
Methylene chloride	ND	97	ug/kg wet	1	06/02/2020	06/02/2020 23:17	EPA 8260B	
Tetrachloroethene	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 23:17	EPA 8260B	
trans-1,2-Dichloroethene	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 23:17	EPA 8260B	
Trichloroethene	**48**	24	ug/kg wet	1	06/02/2020	06/02/2020 23:17	EPA 8260B	
Vinyl chloride	ND	24	ug/kg wet	1	06/02/2020	06/02/2020 23:17	EPA 8260B	
Surrogate: Toluene-d8		*94.9 %*		*61.9-110*	*06/02/2020*	*06/02/2020 23:17*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.2 %*		*59.1-115*	*06/02/2020*	*06/02/2020 23:17*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*99.4 %*		*80-120*	*06/02/2020*	*06/02/2020 23:17*	*EPA 8260B*	

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DPT-019 (14-15)
R202302-07 (Soil)

Date Sampled
06/01/2020 10:55

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006001**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethane	ND	26	ug/kg wet	1	06/02/2020	06/02/2020 23:45	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg wet	1	06/02/2020	06/02/2020 23:45	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg wet	1	06/02/2020	06/02/2020 23:45	EPA 8260B	
Methylene chloride	ND	100	ug/kg wet	1	06/02/2020	06/02/2020 23:45	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg wet	1	06/02/2020	06/02/2020 23:45	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg wet	1	06/02/2020	06/02/2020 23:45	EPA 8260B	
Trichloroethene	**70**	26	ug/kg wet	1	06/02/2020	06/02/2020 23:45	EPA 8260B	
Vinyl chloride	ND	26	ug/kg wet	1	06/02/2020	06/02/2020 23:45	EPA 8260B	
Surrogate: Toluene-d8		*94.5 %*	*61.9-110*		*06/02/2020*	*06/02/2020 23:45*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.7 %*	*59.1-115*		*06/02/2020*	*06/02/2020 23:45*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*97.1 %*	*80-120*		*06/02/2020*	*06/02/2020 23:45*	*EPA 8260B*	

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DPT-019 (22-23)

R202302-08 (Soil)

Date Sampled
06/01/2020 13:05

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006001**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethane	ND	32	ug/kg wet	1	06/02/2020	06/03/2020 00:12	EPA 8260B	
1,1-Dichloroethene	ND	32	ug/kg wet	1	06/02/2020	06/03/2020 00:12	EPA 8260B	
cis-1,2-Dichloroethene	ND	32	ug/kg wet	1	06/02/2020	06/03/2020 00:12	EPA 8260B	
Methylene chloride	ND	130	ug/kg wet	1	06/02/2020	06/03/2020 00:12	EPA 8260B	
Tetrachloroethene	ND	32	ug/kg wet	1	06/02/2020	06/03/2020 00:12	EPA 8260B	
trans-1,2-Dichloroethene	ND	32	ug/kg wet	1	06/02/2020	06/03/2020 00:12	EPA 8260B	
Trichloroethene	ND	32	ug/kg wet	1	06/02/2020	06/03/2020 00:12	EPA 8260B	
Vinyl chloride	ND	32	ug/kg wet	1	06/02/2020	06/03/2020 00:12	EPA 8260B	
Surrogate: Toluene-d8		*96.7 %*	*61.9-110*		*06/02/2020*	*06/03/2020 00:12*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*59.1-115*		*06/02/2020*	*06/03/2020 00:12*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*98.6 %*	*80-120*		*06/02/2020*	*06/03/2020 00:12*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-019 (36)

R202303-01 (Water)

Date Sampled
06/02/2020 06:50

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006002**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/03/2020 18:08	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/02/2020	06/03/2020 18:08	EPA 8260B	
cis-1,2-Dichloroethene	**3.1**	0.50	ug/L	1	06/02/2020	06/03/2020 18:08	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/02/2020	06/03/2020 18:08	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/02/2020	06/03/2020 18:08	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/02/2020	06/03/2020 18:08	EPA 8260B	
Trichloroethene	**170**	5.0	ug/L	10	06/02/2020	06/05/2020 00:45	EPA 8260B	D
Vinyl chloride	ND	0.50	ug/L	1	06/02/2020	06/03/2020 18:08	EPA 8260B	
Surrogate: Toluene-d8		*95.3 %*		*82.5-107*	*06/02/2020*	*06/03/2020 18:08*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.7 %*		*78.3-109*	*06/02/2020*	*06/03/2020 18:08*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*99.0 %*		*80-120*	*06/02/2020*	*06/03/2020 18:08*	*EPA 8260B*	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-018 (40)

R202303-02 (Water)

Date Sampled
06/02/2020 07:10

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006002**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	100	ug/L	200	06/02/2020	06/03/2020 18:36	EPA 8260B	
1,2-Dichloroethane	ND	100	ug/L	200	06/02/2020	06/03/2020 18:36	EPA 8260B	
cis-1,2-Dichloroethene	**1400**	100	ug/L	200	06/02/2020	06/03/2020 18:36	EPA 8260B	D
Methylene chloride	ND	400	ug/L	200	06/02/2020	06/03/2020 18:36	EPA 8260B	
Tetrachloroethene	ND	100	ug/L	200	06/02/2020	06/03/2020 18:36	EPA 8260B	
trans-1,2-Dichloroethene	ND	100	ug/L	200	06/02/2020	06/03/2020 18:36	EPA 8260B	
Trichloroethene	**41000**	1000	ug/L	2000	06/02/2020	06/05/2020 05:46	EPA 8260B	D
Vinyl chloride	ND	100	ug/L	200	06/02/2020	06/03/2020 18:36	EPA 8260B	
Surrogate: Toluene-d8		*95.3 %*		*82.5-107*	*06/02/2020*	*06/03/2020 18:36*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*83.4 %*		*78.3-109*	*06/02/2020*	*06/03/2020 18:36*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*95.3 %*		*80-120*	*06/02/2020*	*06/03/2020 18:36*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-016 (7-8)

R202305-01 (Soil)

Date Sampled
06/02/2020 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006001**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:02	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:02	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:02	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/02/2020	06/03/2020 02:02	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:02	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:02	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:02	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:02	EPA 8260B	
Surrogate: Toluene-d8		*103 %*	*61.9-110*		*06/02/2020*	*06/03/2020 02:02*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*59.1-115*		*06/02/2020*	*06/03/2020 02:02*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*105 %*	*80-120*		*06/02/2020*	*06/03/2020 02:02*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006003**			
% Solids	**88.0**	0.00	% by Weight	1	06/02/2020	06/03/2020 07:45	SM 2540B	

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Englewood CO, 80112	Project Manager: Lynn Lutz

DPT-016 (13-14)

R202305-02 (Soil)

Date Sampled
06/02/2020 10:05

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006001**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/02/2020	06/03/2020 02:30	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/02/2020	06/03/2020 02:30	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/02/2020	06/03/2020 02:30	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/02/2020	06/03/2020 02:30	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/02/2020	06/03/2020 02:30	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/02/2020	06/03/2020 02:30	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/02/2020	06/03/2020 02:30	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/02/2020	06/03/2020 02:30	EPA 8260B	
Surrogate: Toluene-d8		*85.0 %*		*61.9-110*	*06/02/2020*	*06/03/2020 02:30*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*77.4 %*		*59.1-115*	*06/02/2020*	*06/03/2020 02:30*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.8 %*		*80-120*	*06/02/2020*	*06/03/2020 02:30*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006003**			
% Solids	**84.9**	0.00	% by Weight	1	06/02/2020	06/03/2020 07:45	SM 2540B	

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DPT-016 (21-22)
R202305-03 (Soil)

Date Sampled
06/02/2020 10:15

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006001**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:57	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:57	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:57	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/02/2020	06/03/2020 02:57	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:57	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:57	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:57	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/02/2020	06/03/2020 02:57	EPA 8260B	
Surrogate: Toluene-d8		*104 %*		*61.9-110*	*06/02/2020*	*06/03/2020 12:48*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*90.1 %*		*59.1-115*	*06/02/2020*	*06/03/2020 12:48*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*105 %*		*80-120*	*06/02/2020*	*06/03/2020 12:48*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006003**			
% Solids	**90.0**	0.00	% by Weight	1	06/02/2020	06/03/2020 07:45	SM 2540B	

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Englewood CO, 80112	Project Manager: Lynn Lutz

DPT-016 (24-25)

R202305-04 (Soil)

Date Sampled
06/02/2020 10:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006001**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/02/2020	06/03/2020 03:25	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/02/2020	06/03/2020 03:25	EPA 8260B	
cis-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/02/2020	06/03/2020 03:25	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/02/2020	06/03/2020 03:25	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/02/2020	06/03/2020 03:25	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/02/2020	06/03/2020 03:25	EPA 8260B	
Trichloroethene	ND	27	ug/kg dry	1	06/02/2020	06/03/2020 03:25	EPA 8260B	
Vinyl chloride	ND	27	ug/kg dry	1	06/02/2020	06/03/2020 03:25	EPA 8260B	
Surrogate: Toluene-d8		*101 %*	*61.9-110*		*06/02/2020*	*06/03/2020 03:25*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*93.9 %*	*59.1-115*		*06/02/2020*	*06/03/2020 03:25*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*106 %*	*80-120*		*06/02/2020*	*06/03/2020 03:25*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006003**			
% Solids	**83.1**	0.00	% by Weight	1	06/02/2020	06/03/2020 07:45	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DUP-01

R202305-05 (Soil)

Date Sampled
06/02/2020 10:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006001**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/02/2020	06/03/2020 01:35	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/02/2020	06/03/2020 01:35	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/02/2020	06/03/2020 01:35	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/02/2020	06/03/2020 01:35	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/02/2020	06/03/2020 01:35	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/02/2020	06/03/2020 01:35	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/02/2020	06/03/2020 01:35	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/02/2020	06/03/2020 01:35	EPA 8260B	
Surrogate: Toluene-d8		*108 %*		*61.9-110*	*06/02/2020*	*06/03/2020 01:35*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*98.6 %*		*59.1-115*	*06/02/2020*	*06/03/2020 01:35*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*112 %*		*80-120*	*06/02/2020*	*06/03/2020 01:35*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006003**			
% Solids	**82.8**	0.00	% by Weight	1	06/02/2020	06/03/2020 07:45	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-015 (3-4)

R202306-01 (Soil)

Date Sampled
06/03/2020 07:40

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/03/2020	06/03/2020 15:42	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/03/2020	06/03/2020 15:42	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/03/2020	06/03/2020 15:42	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/03/2020	06/03/2020 15:42	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/03/2020	06/03/2020 15:42	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/03/2020	06/03/2020 15:42	EPA 8260B	
Trichloroethene	**100**	29	ug/kg dry	1	06/03/2020	06/03/2020 15:42	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/03/2020	06/03/2020 15:42	EPA 8260B	
Surrogate: Toluene-d8		*91.0 %*		*61.9-110*	*06/03/2020*	*06/03/2020 15:42*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*90.1 %*		*59.1-115*	*06/03/2020*	*06/03/2020 15:42*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*92.5 %*		*80-120*	*06/03/2020*	*06/03/2020 15:42*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**83.3**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project Manager: Lynn Lutz

DPT-015 (15-16)
R202306-02 (Soil)

Date Sampled
06/03/2020 07:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:11	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:11	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:11	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/03/2020	06/03/2020 16:11	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:11	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:11	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:11	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:11	EPA 8260B	
Surrogate: Toluene-d8		*98.9 %*	*61.9-110*		*06/03/2020*	*06/03/2020 16:11*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*88.8 %*	*59.1-115*		*06/03/2020*	*06/03/2020 16:11*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*99.8 %*	*80-120*		*06/03/2020*	*06/03/2020 16:11*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**88.7**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Englewood CO, 80112	Project Manager: Lynn Lutz

DPT-015 (19-20)

R202306-03 (Soil)

Date Sampled
06/03/2020 08:05

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:40	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:40	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:40	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/03/2020	06/03/2020 16:40	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:40	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:40	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:40	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 16:40	EPA 8260B	
Surrogate: Toluene-d8		*109 %*	*61.9-110*		*06/03/2020*	*06/03/2020 16:40*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*59.1-115*		*06/03/2020*	*06/03/2020 16:40*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*110 %*	*80-120*		*06/03/2020*	*06/03/2020 16:40*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**91.5**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-015 (23-24)
R202306-04 (Soil)

Date Sampled
06/03/2020 09:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/03/2020	06/03/2020 17:10	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/03/2020	06/03/2020 17:10	EPA 8260B	
cis-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/03/2020	06/03/2020 17:10	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/03/2020	06/03/2020 17:10	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/03/2020	06/03/2020 17:10	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/03/2020	06/03/2020 17:10	EPA 8260B	
Trichloroethene	**210**	30	ug/kg dry	1	06/03/2020	06/03/2020 17:10	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/03/2020	06/03/2020 17:10	EPA 8260B	
Surrogate: Toluene-d8		*87.2 %*		*61.9-110*	*06/03/2020*	*06/03/2020 17:10*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*74.9 %*		*59.1-115*	*06/03/2020*	*06/03/2020 17:10*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.0 %*		*80-120*	*06/03/2020*	*06/03/2020 17:10*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**80.9**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-017 (10-11)

R202306-05 (Soil)

Date Sampled
06/03/2020 13:40

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 21:51	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 21:51	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 21:51	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/03/2020	06/03/2020 21:51	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 21:51	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 21:51	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 21:51	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/03/2020	06/03/2020 21:51	EPA 8260B	
Surrogate: Toluene-d8		*121 %*	*61.9-110*		*06/03/2020*	*06/03/2020 21:51*	*EPA 8260B*	*S*
Surrogate: 4-Bromofluorobenzene		*104 %*	*59.1-115*		*06/03/2020*	*06/03/2020 21:51*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*120 %*	*80-120*		*06/03/2020*	*06/03/2020 21:51*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**92.1**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-017 (17-18)
R202306-06 (Soil)

Date Sampled
06/03/2020 13:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 09:34	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 09:34	EPA 8260B	
cis-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 09:34	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/03/2020	06/04/2020 09:34	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 09:34	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 09:34	EPA 8260B	
Trichloroethene	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 09:34	EPA 8260B	
Vinyl chloride	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 09:34	EPA 8260B	
Surrogate: Toluene-d8		*95.8 %*		*61.9-110*	*06/03/2020*	*06/04/2020 09:34*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*83.9 %*		*59.1-115*	*06/03/2020*	*06/04/2020 09:34*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.0 %*		*80-120*	*06/03/2020*	*06/04/2020 09:34*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**92.9**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-017 (23-24)

R202306-07 (Soil)

Date Sampled
06/03/2020 14:05

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/03/2020	06/03/2020 22:46	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/03/2020	06/03/2020 22:46	EPA 8260B	
cis-1,2-Dichloroethene	**32**	27	ug/kg dry	1	06/03/2020	06/03/2020 22:46	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/03/2020	06/03/2020 22:46	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/03/2020	06/03/2020 22:46	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/03/2020	06/03/2020 22:46	EPA 8260B	
Trichloroethene	**730**	27	ug/kg dry	1	06/03/2020	06/03/2020 22:46	EPA 8260B	
Vinyl chloride	ND	27	ug/kg dry	1	06/03/2020	06/03/2020 22:46	EPA 8260B	
Surrogate: Toluene-d8		*95.8 %*		*61.9-110*	*06/03/2020*	*06/03/2020 22:46*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.3 %*		*59.1-115*	*06/03/2020*	*06/03/2020 22:46*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*97.0 %*		*80-120*	*06/03/2020*	*06/03/2020 22:46*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**85.9**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-017 (19-20)
R202306-08 (Soil)

Date Sampled
06/03/2020 14:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/03/2020	06/04/2020 10:02	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/04/2020 10:02	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/04/2020 10:02	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/03/2020	06/04/2020 10:02	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/03/2020	06/04/2020 10:02	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/04/2020 10:02	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/03/2020	06/04/2020 10:02	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/03/2020	06/04/2020 10:02	EPA 8260B	
Surrogate: Toluene-d8		*98.4 %*	*61.9-110*		*06/03/2020*	*06/04/2020 10:02*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.1 %*	*59.1-115*		*06/03/2020*	*06/04/2020 10:02*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*99.2 %*	*80-120*		*06/03/2020*	*06/04/2020 10:02*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**92.7**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DUP-03

R202306-09 (Soil)

Date Sampled
06/03/2020 08:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/03/2020	06/03/2020 23:40	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/03/2020	06/03/2020 23:40	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/03/2020	06/03/2020 23:40	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/03/2020	06/03/2020 23:40	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/03/2020	06/03/2020 23:40	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/03/2020	06/03/2020 23:40	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/03/2020	06/03/2020 23:40	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/03/2020	06/03/2020 23:40	EPA 8260B	
Surrogate: Toluene-d8		*98.2 %*		*61.9-110*	*06/03/2020*	*06/03/2020 23:40*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.9 %*		*59.1-115*	*06/03/2020*	*06/03/2020 23:40*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*97.3 %*		*80-120*	*06/03/2020*	*06/03/2020 23:40*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**92.1**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-014 (3-4)

R202306-10 (Soil)

Date Sampled
06/03/2020 15:40

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	37	ug/kg dry	1	06/03/2020	06/04/2020 10:30	EPA 8260B	
1,1-Dichloroethene	ND	37	ug/kg dry	1	06/03/2020	06/04/2020 10:30	EPA 8260B	
cis-1,2-Dichloroethene	ND	37	ug/kg dry	1	06/03/2020	06/04/2020 10:30	EPA 8260B	
Methylene chloride	ND	150	ug/kg dry	1	06/03/2020	06/04/2020 10:30	EPA 8260B	
Tetrachloroethene	ND	37	ug/kg dry	1	06/03/2020	06/04/2020 10:30	EPA 8260B	
trans-1,2-Dichloroethene	ND	37	ug/kg dry	1	06/03/2020	06/04/2020 10:30	EPA 8260B	
Trichloroethene	ND	37	ug/kg dry	1	06/03/2020	06/04/2020 10:30	EPA 8260B	
Vinyl chloride	ND	37	ug/kg dry	1	06/03/2020	06/04/2020 10:30	EPA 8260B	
Surrogate: Toluene-d8		*97.0 %*		*61.9-110*	*06/03/2020*	*06/04/2020 10:30*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.5 %*		*59.1-115*	*06/03/2020*	*06/04/2020 10:30*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.4 %*		*80-120*	*06/03/2020*	*06/04/2020 10:30*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**80.7**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-014 (19-20)

R202306-11 (Soil)

Date Sampled
06/03/2020 15:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 10:58	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 10:58	EPA 8260B	
cis-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 10:58	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/03/2020	06/04/2020 10:58	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 10:58	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 10:58	EPA 8260B	
Trichloroethene	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 10:58	EPA 8260B	
Vinyl chloride	ND	27	ug/kg dry	1	06/03/2020	06/04/2020 10:58	EPA 8260B	
Surrogate: Toluene-d8		*98.8 %*		*61.9-110*	*06/03/2020*	*06/04/2020 10:58*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*88.9 %*		*59.1-115*	*06/03/2020*	*06/04/2020 10:58*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*99.7 %*		*80-120*	*06/03/2020*	*06/04/2020 10:58*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**90.1**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-014 (10-11)
R202306-12 (Soil)

Date Sampled
06/03/2020 16:20

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:27	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:27	EPA 8260B	
cis-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:27	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/03/2020	06/04/2020 11:27	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:27	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:27	EPA 8260B	
Trichloroethene	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:27	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:27	EPA 8260B	
Surrogate: Toluene-d8		*97.5 %*		*61.9-110*	*06/03/2020*	*06/04/2020 11:27*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*89.4 %*		*59.1-115*	*06/03/2020*	*06/04/2020 11:27*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*101 %*		*80-120*	*06/03/2020*	*06/04/2020 11:27*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**89.9**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-014 (25-26)

R202306-13 (Soil)

Date Sampled
06/03/2020 16:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006004**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:55	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:55	EPA 8260B	
cis-1,2-Dichloroethene	**41**	30	ug/kg dry	1	06/03/2020	06/04/2020 11:55	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/03/2020	06/04/2020 11:55	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:55	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:55	EPA 8260B	
Trichloroethene	**630**	30	ug/kg dry	1	06/03/2020	06/04/2020 11:55	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/03/2020	06/04/2020 11:55	EPA 8260B	
Surrogate: Toluene-d8		*99.4 %*		*61.9-110*	*06/03/2020*	*06/04/2020 11:55*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*88.6 %*		*59.1-115*	*06/03/2020*	*06/04/2020 11:55*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*99.1 %*		*80-120*	*06/03/2020*	*06/04/2020 11:55*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006005**			
% Solids	**91.4**	0.00	% by Weight	1	06/03/2020	06/04/2020 07:38	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-016 (42)

R202307-01 (Water)

Date Sampled
06/02/2020 14:40

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006002**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/03/2020	06/03/2020 14:15	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/03/2020	06/03/2020 14:15	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/03/2020	06/03/2020 14:15	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/03/2020	06/03/2020 14:15	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/03/2020	06/03/2020 14:15	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/03/2020	06/03/2020 14:15	EPA 8260B	
Trichloroethene	ND	0.50	ug/L	1	06/03/2020	06/03/2020 14:15	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/03/2020	06/03/2020 14:15	EPA 8260B	
Surrogate: Toluene-d8		*94.6 %*		*82.5-107*	*06/03/2020*	*06/03/2020 14:15*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.2 %*		*78.3-109*	*06/03/2020*	*06/03/2020 14:15*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*97.2 %*		*80-120*	*06/03/2020*	*06/03/2020 14:15*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-016 (33)

R202307-02 (Water)

Date Sampled
06/03/2020 07:00

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006002**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/03/2020	06/03/2020 17:39	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/03/2020	06/03/2020 17:39	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/03/2020	06/03/2020 17:39	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/03/2020	06/03/2020 17:39	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/03/2020	06/03/2020 17:39	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/03/2020	06/03/2020 17:39	EPA 8260B	
Trichloroethene	ND	0.50	ug/L	1	06/03/2020	06/03/2020 17:39	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/03/2020	06/03/2020 17:39	EPA 8260B	
Surrogate: Toluene-d8		*95.2 %*		*82.5-107*	*06/03/2020*	*06/03/2020 17:39*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*82.0 %*		*78.3-109*	*06/03/2020*	*06/03/2020 17:39*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*98.6 %*		*80-120*	*06/03/2020*	*06/03/2020 17:39*	*EPA 8260B*	

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DPT-015 (50)

R202308-01 (Water)

Date Sampled
06/04/2020 06:30

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006006**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:24	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:24	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:24	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/04/2020	06/04/2020 12:24	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:24	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:24	EPA 8260B	
Trichloroethene	**1.4**	0.50	ug/L	1	06/04/2020	06/04/2020 12:24	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:24	EPA 8260B	
Surrogate: Toluene-d8		*92.7 %*		*82.5-107*	*06/04/2020*	*06/04/2020 12:24*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*82.2 %*		*78.3-109*	*06/04/2020*	*06/04/2020 12:24*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*93.8 %*		*80-120*	*06/04/2020*	*06/04/2020 12:24*	*EPA 8260B*	

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Project Manager: Lynn Lutz

DUP-05

R202308-02 (Water)

Date Sampled
06/04/2020 07:05

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006006**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 17:18	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/04/2020	06/04/2020 17:18	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 17:18	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/04/2020	06/04/2020 17:18	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 17:18	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 17:18	EPA 8260B	
Trichloroethene	**1.5**	0.50	ug/L	1	06/04/2020	06/04/2020 17:18	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/04/2020	06/04/2020 17:18	EPA 8260B	
Surrogate: Toluene-d8		*94.6 %*		*82.5-107*	*06/04/2020*	*06/04/2020 17:18*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.1 %*		*78.3-109*	*06/04/2020*	*06/04/2020 17:18*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.9 %*		*80-120*	*06/04/2020*	*06/04/2020 17:18*	*EPA 8260B*	

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DPT-015 (31)

R202308-03 (Water)

Date Sampled
06/04/2020 07:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006006**			
1,1-Dichloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:54	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:54	EPA 8260B	
cis-1,2-Dichloroethene	**5.0**	0.50	ug/L	1	06/04/2020	06/04/2020 12:54	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/04/2020	06/04/2020 12:54	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:54	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:54	EPA 8260B	
Trichloroethene	**240**	5.0	ug/L	10	06/04/2020	06/05/2020 13:18	EPA 8260B	D
Vinyl chloride	ND	0.50	ug/L	1	06/04/2020	06/04/2020 12:54	EPA 8260B	
Surrogate: Toluene-d8		*97.0 %*		*82.5-107*	*06/04/2020*	*06/04/2020 12:54*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*83.4 %*		*78.3-109*	*06/04/2020*	*06/04/2020 12:54*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*99.0 %*		*80-120*	*06/04/2020*	*06/04/2020 12:54*	*EPA 8260B*	

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DPT-017 (42)

R202308-04 (Water)

Date Sampled
06/04/2020 07:15

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006006**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	**7.8**	0.50	ug/L	1	06/04/2020	06/04/2020 13:23	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/04/2020	06/04/2020 13:23	EPA 8260B	
cis-1,2-Dichloroethene	**680**	500	ug/L	1000	06/04/2020	06/05/2020 13:47	EPA 8260B	D
Methylene chloride	ND	2.0	ug/L	1	06/04/2020	06/04/2020 13:23	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 13:23	EPA 8260B	
trans-1,2-Dichloroethene	**1.8**	0.50	ug/L	1	06/04/2020	06/04/2020 13:23	EPA 8260B	
Trichloroethene	**6300**	500	ug/L	1000	06/04/2020	06/05/2020 13:47	EPA 8260B	D
Vinyl chloride	**2.4**	0.50	ug/L	1	06/04/2020	06/04/2020 13:23	EPA 8260B	
Surrogate: Toluene-d8		*90.8 %*		*82.5-107*	*06/04/2020*	*06/04/2020 13:23*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*80.4 %*		*78.3-109*	*06/04/2020*	*06/04/2020 13:23*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.3 %*		*80-120*	*06/04/2020*	*06/04/2020 13:23*	*EPA 8260B*	

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DPT-017 (32)

R202308-05 (Water)

Date Sampled
06/04/2020 07:20

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006006**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	**20**	0.50	ug/L	1	06/04/2020	06/04/2020 13:52	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/04/2020	06/04/2020 13:52	EPA 8260B	
cis-1,2-Dichloroethene	**2200**	500	ug/L	1000	06/04/2020	06/05/2020 14:16	EPA 8260B	D
Methylene chloride	ND	2.0	ug/L	1	06/04/2020	06/04/2020 13:52	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/04/2020	06/04/2020 13:52	EPA 8260B	
trans-1,2-Dichloroethene	**5.4**	0.50	ug/L	1	06/04/2020	06/04/2020 13:52	EPA 8260B	
Trichloroethene	**23000**	500	ug/L	1000	06/04/2020	06/05/2020 14:16	EPA 8260B	D
Vinyl chloride	**37**	0.50	ug/L	1	06/04/2020	06/04/2020 13:52	EPA 8260B	
Surrogate: Toluene-d8		*93.0 %*		*82.5-107*	*06/04/2020*	*06/04/2020 13:52*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.5 %*		*78.3-109*	*06/04/2020*	*06/04/2020 13:52*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*95.4 %*		*80-120*	*06/04/2020*	*06/04/2020 13:52*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-013 (1-2)

R202309-01 (Soil)

Date Sampled
06/04/2020 07:55

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 10:27	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 10:27	EPA 8260B	
cis-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 10:27	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/04/2020	06/05/2020 10:27	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 10:27	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 10:27	EPA 8260B	
Trichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 10:27	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 10:27	EPA 8260B	
Surrogate: Toluene-d8		*89.2 %*		*61.9-110*	*06/04/2020*	*06/05/2020 10:27*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*78.4 %*		*59.1-115*	*06/04/2020*	*06/05/2020 10:27*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*91.6 %*		*80-120*	*06/04/2020*	*06/05/2020 10:27*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**81.7**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-013 (11-12)

R202309-02 (Soil)

Date Sampled
06/04/2020 08:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	23	ug/kg dry	1	06/04/2020	06/05/2020 10:55	EPA 8260B	
1,1-Dichloroethene	ND	23	ug/kg dry	1	06/04/2020	06/05/2020 10:55	EPA 8260B	
cis-1,2-Dichloroethene	ND	23	ug/kg dry	1	06/04/2020	06/05/2020 10:55	EPA 8260B	
Methylene chloride	ND	93	ug/kg dry	1	06/04/2020	06/05/2020 10:55	EPA 8260B	
Tetrachloroethene	ND	23	ug/kg dry	1	06/04/2020	06/05/2020 10:55	EPA 8260B	
trans-1,2-Dichloroethene	ND	23	ug/kg dry	1	06/04/2020	06/05/2020 10:55	EPA 8260B	
Trichloroethene	**56**	23	ug/kg dry	1	06/04/2020	06/05/2020 10:55	EPA 8260B	
Vinyl chloride	ND	23	ug/kg dry	1	06/04/2020	06/05/2020 10:55	EPA 8260B	
Surrogate: Toluene-d8		*90.2 %*		*61.9-110*	*06/04/2020*	*06/05/2020 10:55*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*80.0 %*		*59.1-115*	*06/04/2020*	*06/05/2020 10:55*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.4 %*		*80-120*	*06/04/2020*	*06/05/2020 10:55*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**88.6**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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DPT-013 (17-18)
R202309-03 (Soil)

Date Sampled
06/04/2020 08:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 11:24	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 11:24	EPA 8260B	
cis-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 11:24	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/04/2020	06/05/2020 11:24	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 11:24	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 11:24	EPA 8260B	
Trichloroethene	**41**	30	ug/kg dry	1	06/04/2020	06/05/2020 11:24	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 11:24	EPA 8260B	
Surrogate: Toluene-d8		*77.1 %*		*61.9-110*	*06/04/2020*	*06/05/2020 11:24*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*67.2 %*		*59.1-115*	*06/04/2020*	*06/05/2020 11:24*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*76.8 %*		*80-120*	*06/04/2020*	*06/05/2020 11:24*	*EPA 8260B*	*S*
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**87.4**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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DPT-013 (20-21)
R202309-04 (Soil)

Date Sampled
06/04/2020 08:35

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Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 11:52	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 11:52	EPA 8260B	
cis-1,2-Dichloroethene	**62**	29	ug/kg dry	1	06/04/2020	06/05/2020 11:52	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/04/2020	06/05/2020 11:52	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 11:52	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 11:52	EPA 8260B	
Trichloroethene	**500**	29	ug/kg dry	1	06/04/2020	06/05/2020 11:52	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 11:52	EPA 8260B	
Surrogate: Toluene-d8		*94.8 %*		*61.9-110*	*06/04/2020*	*06/05/2020 11:52*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.4 %*		*59.1-115*	*06/04/2020*	*06/05/2020 11:52*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*99.5 %*		*80-120*	*06/04/2020*	*06/05/2020 11:52*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**79.4**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project Manager: Lynn Lutz

DPT-012 (3-4)

R202309-05 (Soil)

Date Sampled
06/04/2020 09:20

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 17:49	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 17:49	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 17:49	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/04/2020	06/04/2020 17:49	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 17:49	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 17:49	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 17:49	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 17:49	EPA 8260B	
Surrogate: Toluene-d8		*87.1 %*		*61.9-110*	*06/04/2020*	*06/04/2020 17:49*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*78.5 %*		*59.1-115*	*06/04/2020*	*06/04/2020 17:49*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*92.5 %*		*80-120*	*06/04/2020*	*06/04/2020 17:49*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**86.2**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-012 (11-12)
R202309-06 (Soil)

Date Sampled
06/04/2020 09:25

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	25	ug/kg dry	1	06/04/2020	06/04/2020 18:18	EPA 8260B	
1,1-Dichloroethene	ND	25	ug/kg dry	1	06/04/2020	06/04/2020 18:18	EPA 8260B	
cis-1,2-Dichloroethene	ND	25	ug/kg dry	1	06/04/2020	06/04/2020 18:18	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/04/2020	06/04/2020 18:18	EPA 8260B	
Tetrachloroethene	ND	25	ug/kg dry	1	06/04/2020	06/04/2020 18:18	EPA 8260B	
trans-1,2-Dichloroethene	ND	25	ug/kg dry	1	06/04/2020	06/04/2020 18:18	EPA 8260B	
Trichloroethene	ND	25	ug/kg dry	1	06/04/2020	06/04/2020 18:18	EPA 8260B	
Vinyl chloride	ND	25	ug/kg dry	1	06/04/2020	06/04/2020 18:18	EPA 8260B	
Surrogate: Toluene-d8		*87.4 %*		*61.9-110*	*06/04/2020*	*06/04/2020 18:18*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*78.9 %*		*59.1-115*	*06/04/2020*	*06/04/2020 18:18*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.9 %*		*80-120*	*06/04/2020*	*06/04/2020 18:18*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**85.6**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-012 (17-18)
R202309-07 (Soil)

Date Sampled
06/04/2020 09:40

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 18:46	EPA 8260B	
1,1-Dichloroethene	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 18:46	EPA 8260B	
cis-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 18:46	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/04/2020	06/04/2020 18:46	EPA 8260B	
Tetrachloroethene	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 18:46	EPA 8260B	
trans-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 18:46	EPA 8260B	
Trichloroethene	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 18:46	EPA 8260B	
Vinyl chloride	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 18:46	EPA 8260B	
Surrogate: Toluene-d8		*80.0 %*		*61.9-110*	*06/04/2020*	*06/04/2020 18:46*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*70.4 %*		*59.1-115*	*06/04/2020*	*06/04/2020 18:46*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*82.3 %*		*80-120*	*06/04/2020*	*06/04/2020 18:46*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**79.5**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-012 (7-8)

R202309-08 (Soil)

Date Sampled
06/04/2020 09:45

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	36	ug/kg dry	1	06/04/2020	06/04/2020 19:14	EPA 8260B	
1,1-Dichloroethene	ND	36	ug/kg dry	1	06/04/2020	06/04/2020 19:14	EPA 8260B	
cis-1,2-Dichloroethene	ND	36	ug/kg dry	1	06/04/2020	06/04/2020 19:14	EPA 8260B	
Methylene chloride	ND	140	ug/kg dry	1	06/04/2020	06/04/2020 19:14	EPA 8260B	
Tetrachloroethene	ND	36	ug/kg dry	1	06/04/2020	06/04/2020 19:14	EPA 8260B	
trans-1,2-Dichloroethene	ND	36	ug/kg dry	1	06/04/2020	06/04/2020 19:14	EPA 8260B	
Trichloroethene	ND	36	ug/kg dry	1	06/04/2020	06/04/2020 19:14	EPA 8260B	
Vinyl chloride	ND	36	ug/kg dry	1	06/04/2020	06/04/2020 19:14	EPA 8260B	
Surrogate: Toluene-d8		*95.1 %*		*61.9-110*	*06/04/2020*	*06/04/2020 19:14*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*82.7 %*		*59.1-115*	*06/04/2020*	*06/04/2020 19:14*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.1 %*		*80-120*	*06/04/2020*	*06/04/2020 19:14*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**87.2**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-020 (11-12)
R202309-09 (Soil)

Date Sampled
06/04/2020 10:25

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/04/2020	06/04/2020 19:42	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/04/2020 19:42	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/04/2020 19:42	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/04/2020	06/04/2020 19:42	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/04/2020	06/04/2020 19:42	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/04/2020 19:42	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/04/2020 19:42	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/04/2020	06/04/2020 19:42	EPA 8260B	
Surrogate: Toluene-d8		*84.4 %*		*61.9-110*	*06/04/2020*	*06/04/2020 19:42*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*74.5 %*		*59.1-115*	*06/04/2020*	*06/04/2020 19:42*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*87.2 %*		*80-120*	*06/04/2020*	*06/04/2020 19:42*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**87.4**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-020 (18-19)
R202309-10 (Soil)

Date Sampled
06/04/2020 10:35

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 20:10	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 20:10	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 20:10	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/04/2020	06/04/2020 20:10	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 20:10	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 20:10	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 20:10	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/04/2020	06/04/2020 20:10	EPA 8260B	
Surrogate: Toluene-d8		*80.6 %*		*61.9-110*	*06/04/2020*	*06/04/2020 20:10*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*69.1 %*		*59.1-115*	*06/04/2020*	*06/04/2020 20:10*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*84.2 %*		*80-120*	*06/04/2020*	*06/04/2020 20:10*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**89.6**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-020 (14-15)
R202309-11 (Soil)

Date Sampled
06/04/2020 11:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 20:38	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 20:38	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 20:38	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/04/2020	06/04/2020 20:38	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 20:38	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 20:38	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 20:38	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 20:38	EPA 8260B	
Surrogate: Toluene-d8		*79.5 %*	*61.9-110*		*06/04/2020*	*06/04/2020 20:38*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*69.8 %*	*59.1-115*		*06/04/2020*	*06/04/2020 20:38*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*80.5 %*	*80-120*		*06/04/2020*	*06/04/2020 20:38*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**90.5**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DUP-06

R202309-12 (Soil)

Date Sampled
06/04/2020 10:30

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 22:01	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 22:01	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 22:01	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/04/2020	06/04/2020 22:01	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 22:01	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 22:01	EPA 8260B	
Trichloroethene	**32**	28	ug/kg dry	1	06/04/2020	06/04/2020 22:01	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/04/2020	06/04/2020 22:01	EPA 8260B	
Surrogate: Toluene-d8		*83.4 %*		*61.9-110*	*06/04/2020*	*06/04/2020 22:01*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*73.4 %*		*59.1-115*	*06/04/2020*	*06/04/2020 22:01*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*85.1 %*		*80-120*	*06/04/2020*	*06/04/2020 22:01*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**90.5**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-020 (5-6)

R202309-13 (Soil)

Date Sampled
06/04/2020 11:20

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 22:29	EPA 8260B	
1,1-Dichloroethene	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 22:29	EPA 8260B	
cis-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 22:29	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/04/2020	06/04/2020 22:29	EPA 8260B	
Tetrachloroethene	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 22:29	EPA 8260B	
trans-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 22:29	EPA 8260B	
Trichloroethene	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 22:29	EPA 8260B	
Vinyl chloride	ND	32	ug/kg dry	1	06/04/2020	06/04/2020 22:29	EPA 8260B	
Surrogate: Toluene-d8		*78.6 %*		*61.9-110*	*06/04/2020*	*06/04/2020 22:29*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*71.1 %*		*59.1-115*	*06/04/2020*	*06/04/2020 22:29*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*80.0 %*		*80-120*	*06/04/2020*	*06/04/2020 22:29*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**82.5**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-021 (6-7)

R202309-14 (Soil)

Date Sampled
06/04/2020 14:15

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:30	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:30	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:30	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/04/2020	06/05/2020 03:30	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:30	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:30	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:30	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:30	EPA 8260B	
Surrogate: Toluene-d8		*92.4 %*		*61.9-110*	*06/04/2020*	*06/05/2020 03:30*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.6 %*		*59.1-115*	*06/04/2020*	*06/05/2020 03:30*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.9 %*		*80-120*	*06/04/2020*	*06/05/2020 03:30*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**87.8**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-021 (10-11)
R202309-15 (Soil)

Date Sampled
06/04/2020 14:30

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:57	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:57	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:57	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/04/2020	06/05/2020 03:57	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:57	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:57	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:57	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/04/2020	06/05/2020 03:57	EPA 8260B	
Surrogate: Toluene-d8		*94.3 %*		*61.9-110*	*06/04/2020*	*06/05/2020 03:57*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.0 %*		*59.1-115*	*06/04/2020*	*06/05/2020 03:57*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*97.4 %*		*80-120*	*06/04/2020*	*06/05/2020 03:57*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**89.2**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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HDR	Project: Longhorn Army Ammunition Plant (AAP)
9781 S. Merician Blvd., Suite 400	Project Number: 10097916
Englewood CO, 80112	Project Manager: Lynn Lutz

DUP-07

R202309-16 (Soil)

Date Sampled
06/04/2020 14:25

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	38	ug/kg dry	1	06/04/2020	06/05/2020 04:24	EPA 8260B	
1,1-Dichloroethene	ND	38	ug/kg dry	1	06/04/2020	06/05/2020 04:24	EPA 8260B	
cis-1,2-Dichloroethene	ND	38	ug/kg dry	1	06/04/2020	06/05/2020 04:24	EPA 8260B	
Methylene chloride	ND	150	ug/kg dry	1	06/04/2020	06/05/2020 04:24	EPA 8260B	
Tetrachloroethene	ND	38	ug/kg dry	1	06/04/2020	06/05/2020 04:24	EPA 8260B	
trans-1,2-Dichloroethene	ND	38	ug/kg dry	1	06/04/2020	06/05/2020 04:24	EPA 8260B	
Trichloroethene	ND	38	ug/kg dry	1	06/04/2020	06/05/2020 04:24	EPA 8260B	
Vinyl chloride	ND	38	ug/kg dry	1	06/04/2020	06/05/2020 04:24	EPA 8260B	
Surrogate: Toluene-d8		*94.6 %*		*61.9-110*	*06/04/2020*	*06/05/2020 04:24*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.2 %*		*59.1-115*	*06/04/2020*	*06/05/2020 04:24*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*95.4 %*		*80-120*	*06/04/2020*	*06/05/2020 04:24*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**88.2**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-021 (19-20)
R202309-17 (Soil)

Date Sampled
06/04/2020 14:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 04:51	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 04:51	EPA 8260B	
cis-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 04:51	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/04/2020	06/05/2020 04:51	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 04:51	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 04:51	EPA 8260B	
Trichloroethene	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 04:51	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/04/2020	06/05/2020 04:51	EPA 8260B	
Surrogate: Toluene-d8		*71.1 %*		*61.9-110*	*06/04/2020*	*06/05/2020 04:51*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*65.2 %*		*59.1-115*	*06/04/2020*	*06/05/2020 04:51*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*70.9 %*		*80-120*	*06/04/2020*	*06/05/2020 04:51*	*EPA 8260B*	*S*
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**88.2**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-021 (23-24)
R202309-18 (Soil)

Date Sampled
06/04/2020 14:55

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006007**			
1,1-Dichloroethane	ND	31	ug/kg dry	1	06/04/2020	06/05/2020 05:18	EPA 8260B	
1,1-Dichloroethene	ND	31	ug/kg dry	1	06/04/2020	06/05/2020 05:18	EPA 8260B	
cis-1,2-Dichloroethene	**37**	31	ug/kg dry	1	06/04/2020	06/05/2020 05:18	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/04/2020	06/05/2020 05:18	EPA 8260B	
Tetrachloroethene	ND	31	ug/kg dry	1	06/04/2020	06/05/2020 05:18	EPA 8260B	
trans-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/04/2020	06/05/2020 05:18	EPA 8260B	
Trichloroethene	**120**	31	ug/kg dry	1	06/04/2020	06/05/2020 05:18	EPA 8260B	
Vinyl chloride	ND	31	ug/kg dry	1	06/04/2020	06/05/2020 05:18	EPA 8260B	
Surrogate: Toluene-d8		*95.8 %*		*61.9-110*	*06/04/2020*	*06/05/2020 05:18*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.9 %*		*59.1-115*	*06/04/2020*	*06/05/2020 05:18*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*98.6 %*		*80-120*	*06/04/2020*	*06/05/2020 05:18*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006008**			
% Solids	**81.4**	0.00	% by Weight	1	06/04/2020	06/05/2020 08:13	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-022 (5-6)

R202310-01 (Soil)

Date Sampled
06/05/2020 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006010**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/05/2020	06/05/2020 22:31	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/05/2020	06/05/2020 22:31	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/05/2020	06/05/2020 22:31	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/05/2020	06/05/2020 22:31	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/05/2020	06/05/2020 22:31	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/05/2020	06/05/2020 22:31	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/05/2020	06/05/2020 22:31	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/05/2020	06/05/2020 22:31	EPA 8260B	
Surrogate: Toluene-d8		*90.5 %*		*61.9-110*	*06/05/2020*	*06/05/2020 22:31*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*79.2 %*		*59.1-115*	*06/05/2020*	*06/05/2020 22:31*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*92.4 %*		*80-120*	*06/05/2020*	*06/05/2020 22:31*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006011**			
% Solids	**86.6**	0.00	% by Weight	1	06/05/2020	06/07/2020 09:18	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-022 (14-15)
R202310-02 (Soil)

Date Sampled
06/05/2020 10:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006010**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/05/2020	06/07/2020 11:39	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/05/2020	06/07/2020 11:39	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/05/2020	06/07/2020 11:39	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/05/2020	06/07/2020 11:39	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/05/2020	06/07/2020 11:39	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/05/2020	06/07/2020 11:39	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/05/2020	06/07/2020 11:39	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/05/2020	06/07/2020 11:39	EPA 8260B	
Surrogate: Toluene-d8		*96.5 %*		*61.9-110*	*06/05/2020*	*06/07/2020 11:39*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.9 %*		*59.1-115*	*06/05/2020*	*06/07/2020 11:39*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*97.5 %*		*80-120*	*06/05/2020*	*06/07/2020 11:39*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006011**			
% Solids	**86.9**	0.00	% by Weight	1	06/05/2020	06/07/2020 09:18	SM 2540B	

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Project Manager: Lynn Lutz

DPT-022 (8-9)

R202310-03 (Soil)

Date Sampled
06/05/2020 10:05

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006010**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/05/2020	06/05/2020 23:26	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/05/2020	06/05/2020 23:26	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/05/2020	06/05/2020 23:26	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/05/2020	06/05/2020 23:26	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/05/2020	06/05/2020 23:26	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/05/2020	06/05/2020 23:26	EPA 8260B	
Trichloroethene	**29**	28	ug/kg dry	1	06/05/2020	06/05/2020 23:26	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/05/2020	06/05/2020 23:26	EPA 8260B	
Surrogate: Toluene-d8		*93.5 %*		*61.9-110*	*06/05/2020*	*06/05/2020 23:26*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.3 %*		*59.1-115*	*06/05/2020*	*06/05/2020 23:26*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*95.3 %*		*80-120*	*06/05/2020*	*06/05/2020 23:26*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006011**			
% Solids	**88.8**	0.00	% by Weight	1	06/05/2020	06/07/2020 09:18	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-022 (20-21)
R202310-04 (Soil)

Date Sampled
06/05/2020 10:30

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006010**			
1,1-Dichloroethane	ND	25	ug/kg dry	1	06/05/2020	06/05/2020 23:54	EPA 8260B	
1,1-Dichloroethene	ND	25	ug/kg dry	1	06/05/2020	06/05/2020 23:54	EPA 8260B	
cis-1,2-Dichloroethene	ND	25	ug/kg dry	1	06/05/2020	06/05/2020 23:54	EPA 8260B	
Methylene chloride	ND	99	ug/kg dry	1	06/05/2020	06/05/2020 23:54	EPA 8260B	
Tetrachloroethene	ND	25	ug/kg dry	1	06/05/2020	06/05/2020 23:54	EPA 8260B	
trans-1,2-Dichloroethene	ND	25	ug/kg dry	1	06/05/2020	06/05/2020 23:54	EPA 8260B	
Trichloroethene	**100**	25	ug/kg dry	1	06/05/2020	06/05/2020 23:54	EPA 8260B	
Vinyl chloride	ND	25	ug/kg dry	1	06/05/2020	06/05/2020 23:54	EPA 8260B	
Surrogate: Toluene-d8		*89.2 %*		*61.9-110*	*06/05/2020*	*06/05/2020 23:54*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*75.9 %*		*59.1-115*	*06/05/2020*	*06/05/2020 23:54*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*89.9 %*		*80-120*	*06/05/2020*	*06/05/2020 23:54*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006011**			
% Solids	**86.7**	0.00	% by Weight	1	06/05/2020	06/07/2020 09:18	SM 2540B	

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Project Manager: Lynn Lutz

DPT-027 (8-9)

R202310-05 (Soil)

Date Sampled
06/05/2020 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006010**			
1,1-Dichloroethane	ND	35	ug/kg dry	1	06/05/2020	06/06/2020 00:21	EPA 8260B	
1,1-Dichloroethene	ND	35	ug/kg dry	1	06/05/2020	06/06/2020 00:21	EPA 8260B	
cis-1,2-Dichloroethene	ND	35	ug/kg dry	1	06/05/2020	06/06/2020 00:21	EPA 8260B	
Methylene chloride	ND	140	ug/kg dry	1	06/05/2020	06/06/2020 00:21	EPA 8260B	
Tetrachloroethene	ND	35	ug/kg dry	1	06/05/2020	06/06/2020 00:21	EPA 8260B	
trans-1,2-Dichloroethene	ND	35	ug/kg dry	1	06/05/2020	06/06/2020 00:21	EPA 8260B	
Trichloroethene	ND	35	ug/kg dry	1	06/05/2020	06/06/2020 00:21	EPA 8260B	
Vinyl chloride	ND	35	ug/kg dry	1	06/05/2020	06/06/2020 00:21	EPA 8260B	
Surrogate: Toluene-d8		*96.9 %*		*61.9-110*	*06/05/2020*	*06/06/2020 00:21*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.6 %*		*59.1-115*	*06/05/2020*	*06/06/2020 00:21*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.1 %*		*80-120*	*06/05/2020*	*06/06/2020 00:21*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006011**			
% Solids	**89.6**	0.00	% by Weight	1	06/05/2020	06/07/2020 09:18	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-027 (11-12)
R202310-06 (Soil)

Date Sampled
06/05/2020 13:25

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006010**			
1,1-Dichloroethane	ND	34	ug/kg dry	1	06/05/2020	06/06/2020 00:48	EPA 8260B	
1,1-Dichloroethene	ND	34	ug/kg dry	1	06/05/2020	06/06/2020 00:48	EPA 8260B	
cis-1,2-Dichloroethene	ND	34	ug/kg dry	1	06/05/2020	06/06/2020 00:48	EPA 8260B	
Methylene chloride	ND	140	ug/kg dry	1	06/05/2020	06/06/2020 00:48	EPA 8260B	
Tetrachloroethene	ND	34	ug/kg dry	1	06/05/2020	06/06/2020 00:48	EPA 8260B	
trans-1,2-Dichloroethene	ND	34	ug/kg dry	1	06/05/2020	06/06/2020 00:48	EPA 8260B	
Trichloroethene	ND	34	ug/kg dry	1	06/05/2020	06/06/2020 00:48	EPA 8260B	
Vinyl chloride	ND	34	ug/kg dry	1	06/05/2020	06/06/2020 00:48	EPA 8260B	
Surrogate: Toluene-d8		*99.3 %*	*61.9-110*		*06/05/2020*	*06/06/2020 00:48*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*89.2 %*	*59.1-115*		*06/05/2020*	*06/06/2020 00:48*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*101 %*	*80-120*		*06/05/2020*	*06/06/2020 00:48*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006011**			
% Solids	**93.6**	0.00	% by Weight	1	06/05/2020	06/07/2020 09:18	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-027 (2-3)

R202310-07 (Soil)

Date Sampled
06/05/2020 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006010**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/05/2020	06/06/2020 01:15	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/05/2020	06/06/2020 01:15	EPA 8260B	
cis-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/05/2020	06/06/2020 01:15	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/05/2020	06/06/2020 01:15	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/05/2020	06/06/2020 01:15	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/05/2020	06/06/2020 01:15	EPA 8260B	
Trichloroethene	ND	27	ug/kg dry	1	06/05/2020	06/06/2020 01:15	EPA 8260B	
Vinyl chloride	ND	27	ug/kg dry	1	06/05/2020	06/06/2020 01:15	EPA 8260B	
Surrogate: Toluene-d8		*84.3 %*		*61.9-110*	*06/05/2020*	*06/06/2020 01:15*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*73.6 %*		*59.1-115*	*06/05/2020*	*06/06/2020 01:15*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*86.0 %*		*80-120*	*06/05/2020*	*06/06/2020 01:15*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006011**			
% Solids	**82.9**	0.00	% by Weight	1	06/05/2020	06/07/2020 09:18	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-027 (5-6)

R202310-08 (Soil)

Date Sampled
06/05/2020 14:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006010**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/05/2020	06/06/2020 01:42	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/05/2020	06/06/2020 01:42	EPA 8260B	
cis-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/05/2020	06/06/2020 01:42	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/05/2020	06/06/2020 01:42	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/05/2020	06/06/2020 01:42	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/05/2020	06/06/2020 01:42	EPA 8260B	
Trichloroethene	ND	30	ug/kg dry	1	06/05/2020	06/06/2020 01:42	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/05/2020	06/06/2020 01:42	EPA 8260B	
Surrogate: Toluene-d8		*97.6 %*		*61.9-110*	*06/05/2020*	*06/06/2020 01:42*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.0 %*		*59.1-115*	*06/05/2020*	*06/06/2020 01:42*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*100 %*		*80-120*	*06/05/2020*	*06/06/2020 01:42*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006011**			
% Solids	**87.9**	0.00	% by Weight	1	06/05/2020	06/07/2020 09:18	SM 2540B	

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Englewood CO, 80112	Project Manager: Lynn Lutz

DPT-021 (36)

R202311-01 (Water)

Date Sampled
06/05/2020 07:15

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006009**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	100	ug/L	200	06/05/2020	06/06/2020 05:48	EPA 8260B	
1,2-Dichloroethane	ND	100	ug/L	200	06/05/2020	06/06/2020 05:48	EPA 8260B	
cis-1,2-Dichloroethene	**410**	100	ug/L	200	06/05/2020	06/06/2020 05:48	EPA 8260B	D
Methylene chloride	ND	400	ug/L	200	06/05/2020	06/06/2020 05:48	EPA 8260B	
Tetrachloroethene	ND	100	ug/L	200	06/05/2020	06/06/2020 05:48	EPA 8260B	
trans-1,2-Dichloroethene	ND	100	ug/L	200	06/05/2020	06/06/2020 05:48	EPA 8260B	
Trichloroethene	**5200**	100	ug/L	200	06/05/2020	06/06/2020 05:48	EPA 8260B	D
Vinyl chloride	ND	100	ug/L	200	06/05/2020	06/06/2020 05:48	EPA 8260B	
Surrogate: Toluene-d8		*91.6 %*		*82.5-107*	*06/05/2020*	*06/06/2020 05:48*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*83.8 %*		*78.3-109*	*06/05/2020*	*06/06/2020 05:48*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.8 %*		*80-120*	*06/05/2020*	*06/06/2020 05:48*	*EPA 8260B*	

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Project Manager: Lynn Lutz

DPT-020 (44)

R202311-02 (Water)

Date Sampled
06/05/2020 08:25

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006009**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	100	ug/L	200	06/05/2020	06/06/2020 05:21	EPA 8260B	
1,2-Dichloroethane	ND	100	ug/L	200	06/05/2020	06/06/2020 05:21	EPA 8260B	
cis-1,2-Dichloroethene	**570**	100	ug/L	200	06/05/2020	06/06/2020 05:21	EPA 8260B	D
Methylene chloride	ND	400	ug/L	200	06/05/2020	06/06/2020 05:21	EPA 8260B	
Tetrachloroethene	ND	100	ug/L	200	06/05/2020	06/06/2020 05:21	EPA 8260B	
trans-1,2-Dichloroethene	ND	100	ug/L	200	06/05/2020	06/06/2020 05:21	EPA 8260B	
Trichloroethene	**7400**	100	ug/L	200	06/05/2020	06/06/2020 05:21	EPA 8260B	D
Vinyl chloride	ND	100	ug/L	200	06/05/2020	06/06/2020 05:21	EPA 8260B	
Surrogate: Toluene-d8		*94.3 %*		*82.5-107*	*06/05/2020*	*06/06/2020 05:21*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*83.1 %*		*78.3-109*	*06/05/2020*	*06/06/2020 05:21*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*95.5 %*		*80-120*	*06/05/2020*	*06/06/2020 05:21*	*EPA 8260B*	

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Project Manager: Lynn Lutz

DPT-026 (3-4)

R202401-01 (Soil)

Date Sampled
06/07/2020 07:35

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	35	ug/kg dry	1	06/08/2020	06/08/2020 14:07	EPA 8260B	
1,1-Dichloroethene	ND	35	ug/kg dry	1	06/08/2020	06/08/2020 14:07	EPA 8260B	
cis-1,2-Dichloroethene	ND	35	ug/kg dry	1	06/08/2020	06/08/2020 14:07	EPA 8260B	
Methylene chloride	ND	140	ug/kg dry	1	06/08/2020	06/08/2020 14:07	EPA 8260B	
Tetrachloroethene	ND	35	ug/kg dry	1	06/08/2020	06/08/2020 14:07	EPA 8260B	
trans-1,2-Dichloroethene	ND	35	ug/kg dry	1	06/08/2020	06/08/2020 14:07	EPA 8260B	
Trichloroethene	ND	35	ug/kg dry	1	06/08/2020	06/08/2020 14:07	EPA 8260B	
Vinyl chloride	ND	35	ug/kg dry	1	06/08/2020	06/08/2020 14:07	EPA 8260B	
Surrogate: Toluene-d8		*92.4 %*		*61.9-110*	*06/08/2020*	*06/08/2020 14:07*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*82.2 %*		*59.1-115*	*06/08/2020*	*06/08/2020 14:07*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*97.5 %*		*80-120*	*06/08/2020*	*06/08/2020 14:07*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**80.4**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-026 (16-17)
R202401-02 (Soil)

Date Sampled
06/07/2020 07:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/08/2020	06/08/2020 13:38	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/08/2020	06/08/2020 13:38	EPA 8260B	
cis-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/08/2020	06/08/2020 13:38	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/08/2020	06/08/2020 13:38	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/08/2020	06/08/2020 13:38	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/08/2020	06/08/2020 13:38	EPA 8260B	
Trichloroethene	ND	27	ug/kg dry	1	06/08/2020	06/08/2020 13:38	EPA 8260B	
Vinyl chloride	ND	27	ug/kg dry	1	06/08/2020	06/08/2020 13:38	EPA 8260B	
Surrogate: Toluene-d8		*91.1 %*		*61.9-110*	*06/08/2020*	*06/08/2020 13:38*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*80.3 %*		*59.1-115*	*06/08/2020*	*06/08/2020 13:38*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*95.7 %*		*80-120*	*06/08/2020*	*06/08/2020 13:38*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**84.9**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-026 (17-18)
R202401-03 (Soil)

Date Sampled
06/07/2020 07:55

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 16:35	EPA 8260B	
1,1-Dichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 16:35	EPA 8260B	
cis-1,2-Dichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 16:35	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/08/2020	06/08/2020 16:35	EPA 8260B	
Tetrachloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 16:35	EPA 8260B	
trans-1,2-Dichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 16:35	EPA 8260B	
Trichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 16:35	EPA 8260B	
Vinyl chloride	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 16:35	EPA 8260B	
Surrogate: Toluene-d8		*82.3 %*		*61.9-110*	*06/08/2020*	*06/08/2020 16:35*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*73.7 %*		*59.1-115*	*06/08/2020*	*06/08/2020 16:35*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*85.6 %*		*80-120*	*06/08/2020*	*06/08/2020 16:35*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**86.7**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-026 (26-27)

R202401-04 (Soil)

Date Sampled
06/07/2020 08:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/08/2020	06/08/2020 11:17	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/08/2020	06/08/2020 11:17	EPA 8260B	
cis-1,2-Dichloroethene	**37**	30	ug/kg dry	1	06/08/2020	06/08/2020 11:17	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/08/2020	06/08/2020 11:17	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/08/2020	06/08/2020 11:17	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/08/2020	06/08/2020 11:17	EPA 8260B	
Trichloroethene	**69**	30	ug/kg dry	1	06/08/2020	06/08/2020 11:17	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/08/2020	06/08/2020 11:17	EPA 8260B	
Surrogate: Toluene-d8		*94.8 %*		*61.9-110*	*06/08/2020*	*06/08/2020 11:17*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*83.1 %*		*59.1-115*	*06/08/2020*	*06/08/2020 11:17*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*93.5 %*		*80-120*	*06/08/2020*	*06/08/2020 11:17*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**82.3**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-023 (2-3)

R202401-05 (Soil)

Date Sampled
06/07/2020 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/08/2020	06/08/2020 17:05	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/08/2020	06/08/2020 17:05	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/08/2020	06/08/2020 17:05	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/08/2020	06/08/2020 17:05	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/08/2020	06/08/2020 17:05	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/08/2020	06/08/2020 17:05	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/08/2020	06/08/2020 17:05	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/08/2020	06/08/2020 17:05	EPA 8260B	
Surrogate: Toluene-d8		*95.7 %*		*61.9-110*	*06/08/2020*	*06/08/2020 17:05*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*82.3 %*		*59.1-115*	*06/08/2020*	*06/08/2020 17:05*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.9 %*		*80-120*	*06/08/2020*	*06/08/2020 17:05*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**92.0**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project Manager: Lynn Lutz

DPT-023 (4-5)

R202401-06 (Soil)

Date Sampled
06/07/2020 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/08/2020	06/09/2020 07:49	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/08/2020	06/09/2020 07:49	EPA 8260B	
cis-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/08/2020	06/09/2020 07:49	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/08/2020	06/09/2020 07:49	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/08/2020	06/09/2020 07:49	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/08/2020	06/09/2020 07:49	EPA 8260B	
Trichloroethene	ND	27	ug/kg dry	1	06/08/2020	06/09/2020 07:49	EPA 8260B	
Vinyl chloride	ND	27	ug/kg dry	1	06/08/2020	06/09/2020 07:49	EPA 8260B	
Surrogate: Toluene-d8		*122 %*	*61.9-110*		*06/08/2020*	*06/09/2020 07:49*	*EPA 8260B*	*S*
Surrogate: 4-Bromofluorobenzene		*102 %*	*59.1-115*		*06/08/2020*	*06/09/2020 07:49*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*112 %*	*80-120*		*06/08/2020*	*06/09/2020 07:49*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**90.4**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-023 (7-8)

R202401-07 (Soil)

Date Sampled
06/07/2020 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 13:10	EPA 8260B	
1,1-Dichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 13:10	EPA 8260B	
cis-1,2-Dichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 13:10	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/08/2020	06/08/2020 13:10	EPA 8260B	
Tetrachloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 13:10	EPA 8260B	
trans-1,2-Dichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 13:10	EPA 8260B	
Trichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 13:10	EPA 8260B	
Vinyl chloride	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 13:10	EPA 8260B	
Surrogate: Toluene-d8		*91.7 %*		*61.9-110*	*06/08/2020*	*06/08/2020 13:10*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*76.9 %*		*59.1-115*	*06/08/2020*	*06/08/2020 13:10*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*92.8 %*		*80-120*	*06/08/2020*	*06/08/2020 13:10*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**93.6**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-023 (9-10)
R202401-08 (Soil)

Date Sampled
06/07/2020 14:05

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 10:49	EPA 8260B	
1,1-Dichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 10:49	EPA 8260B	
cis-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 10:49	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/08/2020	06/08/2020 10:49	EPA 8260B	
Tetrachloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 10:49	EPA 8260B	
trans-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 10:49	EPA 8260B	
Trichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 10:49	EPA 8260B	
Vinyl chloride	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 10:49	EPA 8260B	
Surrogate: Toluene-d8		*97.5 %*		*61.9-110*	*06/08/2020*	*06/08/2020 10:49*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.9 %*		*59.1-115*	*06/08/2020*	*06/08/2020 10:49*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.6 %*		*80-120*	*06/08/2020*	*06/08/2020 10:49*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**94.5**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-022 (36)

R202402-01 (Water)

Date Sampled
06/06/2020 08:45

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006013**			
1,1-Dichloroethene	ND	100	ug/L	200	06/08/2020	06/08/2020 11:45	EPA 8260B	
1,2-Dichloroethane	ND	100	ug/L	200	06/08/2020	06/08/2020 11:45	EPA 8260B	
cis-1,2-Dichloroethene	**1500**	100	ug/L	200	06/08/2020	06/08/2020 11:45	EPA 8260B	D
Methylene chloride	ND	400	ug/L	200	06/08/2020	06/08/2020 11:45	EPA 8260B	
Tetrachloroethene	ND	100	ug/L	200	06/08/2020	06/08/2020 11:45	EPA 8260B	
trans-1,2-Dichloroethene	ND	100	ug/L	200	06/08/2020	06/08/2020 11:45	EPA 8260B	
Trichloroethene	**66000**	1000	ug/L	2000	06/08/2020	06/09/2020 10:08	EPA 8260B	D
Vinyl chloride	ND	100	ug/L	200	06/08/2020	06/08/2020 11:45	EPA 8260B	
Surrogate: Toluene-d8		*92.0 %*		*82.5-107*	*06/08/2020*	*06/08/2020 11:45*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*78.7 %*		*78.3-109*	*06/08/2020*	*06/08/2020 11:45*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*89.3 %*		*80-120*	*06/08/2020*	*06/08/2020 11:45*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-026 (45)

R202402-02 (Water)

Date Sampled
06/08/2020 06:25

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006013**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	100	ug/L	200	06/08/2020	06/08/2020 12:13	EPA 8260B	
1,2-Dichloroethane	ND	100	ug/L	200	06/08/2020	06/08/2020 12:13	EPA 8260B	
cis-1,2-Dichloroethene	**340**	100	ug/L	200	06/08/2020	06/08/2020 12:13	EPA 8260B	D
Methylene chloride	ND	400	ug/L	200	06/08/2020	06/08/2020 12:13	EPA 8260B	
Tetrachloroethene	ND	100	ug/L	200	06/08/2020	06/08/2020 12:13	EPA 8260B	
trans-1,2-Dichloroethene	ND	100	ug/L	200	06/08/2020	06/08/2020 12:13	EPA 8260B	
Trichloroethene	**40000**	1000	ug/L	2000	06/08/2020	06/09/2020 09:40	EPA 8260B	D
Vinyl chloride	ND	100	ug/L	200	06/08/2020	06/08/2020 12:13	EPA 8260B	
Surrogate: Toluene-d8		*93.1 %*		*82.5-107*	*06/08/2020*	*06/08/2020 12:13*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*77.8 %*		*78.3-109*	*06/08/2020*	*06/08/2020 12:13*	*EPA 8260B*	*S*
Surrogate: 1,2-Dichlorobenzene-d4		*95.8 %*		*80-120*	*06/08/2020*	*06/08/2020 12:13*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-026 (36)

R202402-03 (Water)

Date Sampled
06/08/2020 06:35

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006013**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	1000	ug/L	2000	06/08/2020	06/09/2020 09:12	EPA 8260B	
1,2-Dichloroethane	ND	1000	ug/L	2000	06/08/2020	06/09/2020 09:12	EPA 8260B	
cis-1,2-Dichloroethene	**1400**	1000	ug/L	2000	06/08/2020	06/09/2020 09:12	EPA 8260B	D
Methylene chloride	ND	4000	ug/L	2000	06/08/2020	06/09/2020 09:12	EPA 8260B	
Tetrachloroethene	ND	1000	ug/L	2000	06/08/2020	06/09/2020 09:12	EPA 8260B	
trans-1,2-Dichloroethene	ND	1000	ug/L	2000	06/08/2020	06/09/2020 09:12	EPA 8260B	
Trichloroethene	**14000**	1000	ug/L	2000	06/08/2020	06/09/2020 09:12	EPA 8260B	D
Vinyl chloride	ND	1000	ug/L	2000	06/08/2020	06/09/2020 09:12	EPA 8260B	
Surrogate: Toluene-d8		*93.1 %*		*82.5-107*	*06/08/2020*	*06/09/2020 09:12*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.4 %*		*78.3-109*	*06/08/2020*	*06/09/2020 09:12*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*100 %*		*80-120*	*06/08/2020*	*06/09/2020 09:12*	*EPA 8260B*	

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HDR	Project: Longhorn Army Ammunition Plant (AAP)
9781 S. Merician Blvd., Suite 400	Project Number: 10097916
Englewood CO, 80112	Project Manager: Lynn Lutz

DPT-023 (42)

R202402-04 (Water)

Date Sampled
06/08/2020 16:35

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006013**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	100	ug/L	200	06/08/2020	06/08/2020 18:03	EPA 8260B	
1,2-Dichloroethane	ND	100	ug/L	200	06/08/2020	06/08/2020 18:03	EPA 8260B	
cis-1,2-Dichloroethene	ND	100	ug/L	200	06/08/2020	06/08/2020 18:03	EPA 8260B	
Methylene chloride	ND	400	ug/L	200	06/08/2020	06/08/2020 18:03	EPA 8260B	
Tetrachloroethene	ND	100	ug/L	200	06/08/2020	06/08/2020 18:03	EPA 8260B	
trans-1,2-Dichloroethene	ND	100	ug/L	200	06/08/2020	06/08/2020 18:03	EPA 8260B	
Trichloroethene	**4400**	100	ug/L	200	06/08/2020	06/08/2020 18:03	EPA 8260B	D
Vinyl chloride	ND	100	ug/L	200	06/08/2020	06/08/2020 18:03	EPA 8260B	
Surrogate: Toluene-d8		*94.4 %*		*82.5-107*	*06/08/2020*	*06/08/2020 18:03*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*79.1 %*		*78.3-109*	*06/08/2020*	*06/08/2020 18:03*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.9 %*		*80-120*	*06/08/2020*	*06/08/2020 18:03*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-024 (44)

R202402-05 (Water)

Date Sampled
06/08/2020 16:45

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006013**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/08/2020	06/08/2020 18:32	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/08/2020	06/08/2020 18:32	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/08/2020	06/08/2020 18:32	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/08/2020	06/08/2020 18:32	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/08/2020	06/08/2020 18:32	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/08/2020	06/08/2020 18:32	EPA 8260B	
Trichloroethene	ND	0.50	ug/L	1	06/08/2020	06/08/2020 18:32	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/08/2020	06/08/2020 18:32	EPA 8260B	
Surrogate: Toluene-d8		*93.1 %*		*82.5-107*	*06/08/2020*	*06/08/2020 18:32*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*80.0 %*		*78.3-109*	*06/08/2020*	*06/08/2020 18:32*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.9 %*		*80-120*	*06/08/2020*	*06/08/2020 18:32*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-024 (9-10)
R202403-01 (Soil)

Date Sampled
06/08/2020 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/08/2020	06/09/2020 08:16	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/08/2020	06/09/2020 08:16	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/08/2020	06/09/2020 08:16	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/08/2020	06/09/2020 08:16	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/08/2020	06/09/2020 08:16	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/08/2020	06/09/2020 08:16	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/08/2020	06/09/2020 08:16	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/08/2020	06/09/2020 08:16	EPA 8260B	
Surrogate: Toluene-d8		*96.7 %*		*61.9-110*	*06/08/2020*	*06/09/2020 08:16*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.8 %*		*59.1-115*	*06/08/2020*	*06/09/2020 08:16*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*101 %*		*80-120*	*06/08/2020*	*06/09/2020 08:16*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**93.3**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DUP-08

R202403-02 (Soil)

Date Sampled
06/08/2020 11:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	38	ug/kg dry	1	06/08/2020	06/09/2020 08:44	EPA 8260B	
1,1-Dichloroethene	ND	38	ug/kg dry	1	06/08/2020	06/09/2020 08:44	EPA 8260B	
cis-1,2-Dichloroethene	ND	38	ug/kg dry	1	06/08/2020	06/09/2020 08:44	EPA 8260B	
Methylene chloride	ND	150	ug/kg dry	1	06/08/2020	06/09/2020 08:44	EPA 8260B	
Tetrachloroethene	ND	38	ug/kg dry	1	06/08/2020	06/09/2020 08:44	EPA 8260B	
trans-1,2-Dichloroethene	ND	38	ug/kg dry	1	06/08/2020	06/09/2020 08:44	EPA 8260B	
Trichloroethene	ND	38	ug/kg dry	1	06/08/2020	06/09/2020 08:44	EPA 8260B	
Vinyl chloride	ND	38	ug/kg dry	1	06/08/2020	06/09/2020 08:44	EPA 8260B	
Surrogate: Toluene-d8		*94.8 %*		*61.9-110*	*06/08/2020*	*06/09/2020 08:44*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.1 %*		*59.1-115*	*06/08/2020*	*06/09/2020 08:44*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*100 %*		*80-120*	*06/08/2020*	*06/09/2020 08:44*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**92.7**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-024 (13-14)
R202403-03 (Soil)

Date Sampled
06/08/2020 12:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/08/2020	06/08/2020 19:04	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/08/2020	06/08/2020 19:04	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/08/2020	06/08/2020 19:04	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/08/2020	06/08/2020 19:04	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/08/2020	06/08/2020 19:04	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/08/2020	06/08/2020 19:04	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/08/2020	06/08/2020 19:04	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/08/2020	06/08/2020 19:04	EPA 8260B	
Surrogate: Toluene-d8		*92.8 %*		*61.9-110*	*06/08/2020*	*06/08/2020 19:04*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*80.1 %*		*59.1-115*	*06/08/2020*	*06/08/2020 19:04*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.3 %*		*80-120*	*06/08/2020*	*06/08/2020 19:04*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**92.7**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-024 (17-18)
R202403-04 (Soil)

Date Sampled
06/08/2020 12:05

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 19:32	EPA 8260B	
1,1-Dichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 19:32	EPA 8260B	
cis-1,2-Dichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 19:32	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/08/2020	06/08/2020 19:32	EPA 8260B	
Tetrachloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 19:32	EPA 8260B	
trans-1,2-Dichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 19:32	EPA 8260B	
Trichloroethene	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 19:32	EPA 8260B	
Vinyl chloride	ND	33	ug/kg dry	1	06/08/2020	06/08/2020 19:32	EPA 8260B	
Surrogate: Toluene-d8		*94.2 %*		*61.9-110*	*06/08/2020*	*06/08/2020 19:32*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*83.0 %*		*59.1-115*	*06/08/2020*	*06/08/2020 19:32*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*97.7 %*		*80-120*	*06/08/2020*	*06/08/2020 19:32*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**93.4**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-024 (21-22)
R202403-05 (Soil)

Date Sampled
06/08/2020 12:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:00	EPA 8260B	
1,1-Dichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:00	EPA 8260B	
cis-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:00	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/08/2020	06/08/2020 20:00	EPA 8260B	
Tetrachloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:00	EPA 8260B	
trans-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:00	EPA 8260B	
Trichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:00	EPA 8260B	
Vinyl chloride	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:00	EPA 8260B	
Surrogate: Toluene-d8		*91.2 %*		*61.9-110*	*06/08/2020*	*06/08/2020 20:00*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*79.8 %*		*59.1-115*	*06/08/2020*	*06/08/2020 20:00*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.3 %*		*80-120*	*06/08/2020*	*06/08/2020 20:00*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**92.6**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DUP-09

R202403-06 (Soil)

Date Sampled
06/08/2020 12:15

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006012**			
1,1-Dichloroethane	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:28	EPA 8260B	
1,1-Dichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:28	EPA 8260B	
cis-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:28	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/08/2020	06/08/2020 20:28	EPA 8260B	
Tetrachloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:28	EPA 8260B	
trans-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:28	EPA 8260B	
Trichloroethene	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:28	EPA 8260B	
Vinyl chloride	ND	31	ug/kg dry	1	06/08/2020	06/08/2020 20:28	EPA 8260B	
Surrogate: Toluene-d8		*67.6 %*		*61.9-110*	*06/08/2020*	*06/08/2020 20:28*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*57.2 %*		*59.1-115*	*06/08/2020*	*06/08/2020 20:28*	*EPA 8260B*	*S*
Surrogate: 1,2-Dichlorobenzene-d4		*66.5 %*		*80-120*	*06/08/2020*	*06/08/2020 20:28*	*EPA 8260B*	*S*
Classical Chemistry Parameters					**Preparation Batch: R006014**			
% Solids	**85.5**	0.00	% by Weight	1	06/08/2020	06/09/2020 07:45	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-024 (33)

R202404-01 (Water)

Date Sampled
06/09/2020 07:10

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006015**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/09/2020	06/09/2020 10:37	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/09/2020	06/09/2020 10:37	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/09/2020	06/09/2020 10:37	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/09/2020	06/09/2020 10:37	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/09/2020	06/09/2020 10:37	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/09/2020	06/09/2020 10:37	EPA 8260B	
Trichloroethene	ND	0.50	ug/L	1	06/09/2020	06/09/2020 10:37	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/09/2020	06/09/2020 10:37	EPA 8260B	
Surrogate: Toluene-d8		*94.3 %*		*82.5-107*	*06/09/2020*	*06/09/2020 10:37*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*80.7 %*		*78.3-109*	*06/09/2020*	*06/09/2020 10:37*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.2 %*		*80-120*	*06/09/2020*	*06/09/2020 10:37*	*EPA 8260B*	

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DPT-013 (33)

R202404-02 (Water)

Date Sampled
06/09/2020 07:20

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006015**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:06	EPA 8260B	
1,2-Dichloroethane	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:06	EPA 8260B	
cis-1,2-Dichloroethene	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:06	EPA 8260B	
Methylene chloride	ND	4000	ug/L	2000	06/09/2020	06/09/2020 11:06	EPA 8260B	
Tetrachloroethene	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:06	EPA 8260B	
trans-1,2-Dichloroethene	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:06	EPA 8260B	
Trichloroethene	**57000**	1000	ug/L	2000	06/09/2020	06/09/2020 11:06	EPA 8260B	D
Vinyl chloride	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:06	EPA 8260B	
Surrogate: Toluene-d8		*93.2 %*		*82.5-107*	*06/09/2020*	*06/09/2020 11:06*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*79.6 %*		*78.3-109*	*06/09/2020*	*06/09/2020 11:06*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.1 %*		*80-120*	*06/09/2020*	*06/09/2020 11:06*	*EPA 8260B*	

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DPT-012 (33)

R202404-03 (Water)

Date Sampled
06/09/2020 07:30

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006015**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:34	EPA 8260B	
1,2-Dichloroethane	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:34	EPA 8260B	
cis-1,2-Dichloroethene	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:34	EPA 8260B	
Methylene chloride	ND	4000	ug/L	2000	06/09/2020	06/09/2020 11:34	EPA 8260B	
Tetrachloroethene	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:34	EPA 8260B	
trans-1,2-Dichloroethene	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:34	EPA 8260B	
Trichloroethene	**21000**	1000	ug/L	2000	06/09/2020	06/09/2020 11:34	EPA 8260B	D
Vinyl chloride	ND	1000	ug/L	2000	06/09/2020	06/09/2020 11:34	EPA 8260B	
Surrogate: Toluene-d8		*90.7 %*		*82.5-107*	*06/09/2020*	*06/09/2020 11:34*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*78.9 %*		*78.3-109*	*06/09/2020*	*06/09/2020 11:34*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.1 %*		*80-120*	*06/09/2020*	*06/09/2020 11:34*	*EPA 8260B*	

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DPT-023 (33)

R202404-04 (Water)

Date Sampled
06/09/2020 06:50

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006015**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	100	ug/L	200	06/09/2020	06/09/2020 12:03	EPA 8260B	
1,2-Dichloroethane	ND	100	ug/L	200	06/09/2020	06/09/2020 12:03	EPA 8260B	
cis-1,2-Dichloroethene	ND	100	ug/L	200	06/09/2020	06/09/2020 12:03	EPA 8260B	
Methylene chloride	ND	400	ug/L	200	06/09/2020	06/09/2020 12:03	EPA 8260B	
Tetrachloroethene	ND	100	ug/L	200	06/09/2020	06/09/2020 12:03	EPA 8260B	
trans-1,2-Dichloroethene	ND	100	ug/L	200	06/09/2020	06/09/2020 12:03	EPA 8260B	
Trichloroethene	**2500**	100	ug/L	200	06/09/2020	06/09/2020 12:03	EPA 8260B	D
Vinyl chloride	ND	100	ug/L	200	06/09/2020	06/09/2020 12:03	EPA 8260B	
Surrogate: Toluene-d8		*92.6 %*		*82.5-107*	*06/09/2020*	*06/09/2020 12:03*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*82.7 %*		*78.3-109*	*06/09/2020*	*06/09/2020 12:03*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*98.5 %*		*80-120*	*06/09/2020*	*06/09/2020 12:03*	*EPA 8260B*	

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Project Manager: Lynn Lutz

DPT-025 (6-7)

R202405-01 (Soil)

Date Sampled
06/09/2020 11:55

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006016**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 20:53	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 20:53	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 20:53	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/09/2020	06/09/2020 20:53	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 20:53	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 20:53	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 20:53	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 20:53	EPA 8260B	
Surrogate: Toluene-d8		*91.9 %*		*61.9-110*	*06/09/2020*	*06/09/2020 20:53*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.3 %*		*59.1-115*	*06/09/2020*	*06/09/2020 20:53*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.3 %*		*80-120*	*06/09/2020*	*06/09/2020 20:53*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006017**			
% Solids	**91.2**	0.00	% by Weight	1	06/09/2020	06/10/2020 07:40	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-025 (11-12)
R202405-02 (Soil)

Date Sampled
06/09/2020 12:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006016**			
1,1-Dichloroethane	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 22:16	EPA 8260B	
1,1-Dichloroethene	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 22:16	EPA 8260B	
cis-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 22:16	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/09/2020	06/09/2020 22:16	EPA 8260B	
Tetrachloroethene	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 22:16	EPA 8260B	
trans-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 22:16	EPA 8260B	
Trichloroethene	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 22:16	EPA 8260B	
Vinyl chloride	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 22:16	EPA 8260B	
Surrogate: Toluene-d8		*91.7 %*		*61.9-110*	*06/09/2020*	*06/09/2020 22:16*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.2 %*		*59.1-115*	*06/09/2020*	*06/09/2020 22:16*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*92.3 %*		*80-120*	*06/09/2020*	*06/09/2020 22:16*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006017**			
% Solids	**89.8**	0.00	% by Weight	1	06/09/2020	06/10/2020 07:40	SM 2540B	

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Project Number: 10097916
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DPT-025 (17-18)
R202405-03 (Soil)

Date Sampled
06/09/2020 12:05

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006016**			
1,1-Dichloroethane	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 21:21	EPA 8260B	
1,1-Dichloroethene	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 21:21	EPA 8260B	
cis-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 21:21	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/09/2020	06/09/2020 21:21	EPA 8260B	
Tetrachloroethene	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 21:21	EPA 8260B	
trans-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 21:21	EPA 8260B	
Trichloroethene	**38**	31	ug/kg dry	1	06/09/2020	06/09/2020 21:21	EPA 8260B	
Vinyl chloride	ND	31	ug/kg dry	1	06/09/2020	06/09/2020 21:21	EPA 8260B	
Surrogate: Toluene-d8		*89.2 %*		*61.9-110*	*06/09/2020*	*06/09/2020 21:21*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*78.7 %*		*59.1-115*	*06/09/2020*	*06/09/2020 21:21*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*91.7 %*		*80-120*	*06/09/2020*	*06/09/2020 21:21*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006017**			
% Solids	**84.0**	0.00	% by Weight	1	06/09/2020	06/10/2020 07:40	SM 2540B	

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DPT-025 (22-23)
R202405-04 (Soil)

Date Sampled
06/09/2020 12:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006016**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 21:49	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 21:49	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 21:49	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/09/2020	06/09/2020 21:49	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 21:49	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 21:49	EPA 8260B	
Trichloroethene	**52**	26	ug/kg dry	1	06/09/2020	06/09/2020 21:49	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/09/2020	06/09/2020 21:49	EPA 8260B	
Surrogate: Toluene-d8		*91.2 %*		*61.9-110*	*06/09/2020*	*06/09/2020 21:49*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.2 %*		*59.1-115*	*06/09/2020*	*06/09/2020 21:49*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*97.0 %*		*80-120*	*06/09/2020*	*06/09/2020 21:49*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006017**			
% Solids	**85.1**	0.00	% by Weight	1	06/09/2020	06/10/2020 07:40	SM 2540B	

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DPT-025 (36)

R202406-01 (Water)

Date Sampled
06/10/2020 06:55

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006018**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	5.0	ug/L	10	06/10/2020	06/10/2020 21:42	EPA 8260B	
1,2-Dichloroethane	ND	5.0	ug/L	10	06/10/2020	06/10/2020 21:42	EPA 8260B	
cis-1,2-Dichloroethene	**8.1**	5.0	ug/L	10	06/10/2020	06/10/2020 21:42	EPA 8260B	D
Methylene chloride	ND	20	ug/L	10	06/10/2020	06/10/2020 21:42	EPA 8260B	
Tetrachloroethene	ND	5.0	ug/L	10	06/10/2020	06/10/2020 21:42	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	ug/L	10	06/10/2020	06/10/2020 21:42	EPA 8260B	
Trichloroethene	**660**	50	ug/L	100	06/10/2020	06/11/2020 11:20	EPA 8260B	M, D
Vinyl chloride	ND	5.0	ug/L	10	06/10/2020	06/10/2020 21:42	EPA 8260B	
Surrogate: Toluene-d8		*89.8 %*		*82.5-107*	*06/10/2020*	*06/10/2020 21:42*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*74.9 %*		*78.3-109*	*06/10/2020*	*06/10/2020 21:42*	*EPA 8260B*	*S*
Surrogate: 1,2-Dichlorobenzene-d4		*91.8 %*		*80-120*	*06/10/2020*	*06/10/2020 21:42*	*EPA 8260B*	

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DUP-10

R202406-02 (Water)

Date Sampled
06/10/2020 07:00

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006018**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	5.0	ug/L	10	06/10/2020	06/10/2020 14:15	EPA 8260B	
1,2-Dichloroethane	ND	5.0	ug/L	10	06/10/2020	06/10/2020 14:15	EPA 8260B	
cis-1,2-Dichloroethene	**26**	5.0	ug/L	10	06/10/2020	06/10/2020 14:15	EPA 8260B	D
Methylene chloride	ND	20	ug/L	10	06/10/2020	06/10/2020 14:15	EPA 8260B	
Tetrachloroethene	ND	5.0	ug/L	10	06/10/2020	06/10/2020 14:15	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	ug/L	10	06/10/2020	06/10/2020 14:15	EPA 8260B	
Trichloroethene	**1600**	50	ug/L	100	06/10/2020	06/10/2020 22:10	EPA 8260B	D
Vinyl chloride	ND	5.0	ug/L	10	06/10/2020	06/10/2020 14:15	EPA 8260B	
Surrogate: Toluene-d8		*91.5 %*		*82.5-107*	*06/10/2020*	*06/10/2020 14:15*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*75.2 %*		*78.3-109*	*06/10/2020*	*06/10/2020 14:15*	*EPA 8260B*	*S*
Surrogate: 1,2-Dichlorobenzene-d4		*94.4 %*		*80-120*	*06/10/2020*	*06/10/2020 14:15*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-028 (48)

R202406-03 (Water)

Date Sampled
06/10/2020 16:05

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006018**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	250	ug/L	500	06/10/2020	06/10/2020 22:37	EPA 8260B	
1,2-Dichloroethane	ND	250	ug/L	500	06/10/2020	06/10/2020 22:37	EPA 8260B	
cis-1,2-Dichloroethene	**520**	250	ug/L	500	06/10/2020	06/10/2020 22:37	EPA 8260B	D
Methylene chloride	ND	1000	ug/L	500	06/10/2020	06/10/2020 22:37	EPA 8260B	
Tetrachloroethene	ND	250	ug/L	500	06/10/2020	06/10/2020 22:37	EPA 8260B	
trans-1,2-Dichloroethene	ND	250	ug/L	500	06/10/2020	06/10/2020 22:37	EPA 8260B	
Trichloroethene	**11000**	250	ug/L	500	06/10/2020	06/10/2020 22:37	EPA 8260B	D
Vinyl chloride	ND	250	ug/L	500	06/10/2020	06/10/2020 22:37	EPA 8260B	
Surrogate: Toluene-d8		*89.2 %*		*82.5-107*	*06/10/2020*	*06/10/2020 22:37*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*77.0 %*		*78.3-109*	*06/10/2020*	*06/10/2020 22:37*	*EPA 8260B*	*S*
Surrogate: 1,2-Dichlorobenzene-d4		*92.1 %*		*80-120*	*06/10/2020*	*06/10/2020 22:37*	*EPA 8260B*	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-028 (10-11)

R202407-01 (Soil)

Date Sampled
06/10/2020 07:40

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006019**			
1,1-Dichloroethane	ND	23	ug/kg dry	1	06/10/2020	06/10/2020 11:55	EPA 8260B	
1,1-Dichloroethene	ND	23	ug/kg dry	1	06/10/2020	06/10/2020 11:55	EPA 8260B	
cis-1,2-Dichloroethene	ND	23	ug/kg dry	1	06/10/2020	06/10/2020 11:55	EPA 8260B	
Methylene chloride	ND	92	ug/kg dry	1	06/10/2020	06/10/2020 11:55	EPA 8260B	
Tetrachloroethene	ND	23	ug/kg dry	1	06/10/2020	06/10/2020 11:55	EPA 8260B	
trans-1,2-Dichloroethene	ND	23	ug/kg dry	1	06/10/2020	06/10/2020 11:55	EPA 8260B	
Trichloroethene	**410**	23	ug/kg dry	1	06/10/2020	06/10/2020 11:55	EPA 8260B	M
Vinyl chloride	ND	23	ug/kg dry	1	06/10/2020	06/10/2020 11:55	EPA 8260B	
Surrogate: Toluene-d8		*89.5 %*		*61.9-110*	*06/10/2020*	*06/10/2020 11:55*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*74.3 %*		*59.1-115*	*06/10/2020*	*06/10/2020 11:55*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.5 %*		*80-120*	*06/10/2020*	*06/10/2020 11:55*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006020**			
% Solids	**89.7**	0.00	% by Weight	1	06/10/2020	06/11/2020 07:20	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-028 (13-14)
R202407-02 (Soil)

Date Sampled
06/10/2020 07:45

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006019**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/10/2020	06/10/2020 12:22	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/10/2020	06/10/2020 12:22	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/10/2020	06/10/2020 12:22	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/10/2020	06/10/2020 12:22	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/10/2020	06/10/2020 12:22	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/10/2020	06/10/2020 12:22	EPA 8260B	
Trichloroethene	**220**	29	ug/kg dry	1	06/10/2020	06/10/2020 12:22	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/10/2020	06/10/2020 12:22	EPA 8260B	
Surrogate: Toluene-d8		*89.7 %*		*61.9-110*	*06/10/2020*	*06/10/2020 12:22*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*76.9 %*		*59.1-115*	*06/10/2020*	*06/10/2020 12:22*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*92.4 %*		*80-120*	*06/10/2020*	*06/10/2020 12:22*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006020**			
% Solids	**90.1**	0.00	% by Weight	1	06/10/2020	06/11/2020 07:20	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-028 (16-17)
R202407-03 (Soil)

Date Sampled
06/10/2020 07:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006019**			
1,1-Dichloroethane	ND	32	ug/kg dry	1	06/10/2020	06/10/2020 12:50	EPA 8260B	
1,1-Dichloroethene	ND	32	ug/kg dry	1	06/10/2020	06/10/2020 12:50	EPA 8260B	
cis-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/10/2020	06/10/2020 12:50	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/10/2020	06/10/2020 12:50	EPA 8260B	
Tetrachloroethene	ND	32	ug/kg dry	1	06/10/2020	06/10/2020 12:50	EPA 8260B	
trans-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/10/2020	06/10/2020 12:50	EPA 8260B	
Trichloroethene	**1300**	32	ug/kg dry	1	06/10/2020	06/10/2020 12:50	EPA 8260B	
Vinyl chloride	ND	32	ug/kg dry	1	06/10/2020	06/10/2020 12:50	EPA 8260B	
Surrogate: Toluene-d8		*90.6 %*		*61.9-110*	*06/10/2020*	*06/10/2020 12:50*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*76.4 %*		*59.1-115*	*06/10/2020*	*06/10/2020 12:50*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.0 %*		*80-120*	*06/10/2020*	*06/10/2020 12:50*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006020**			
% Solids	**85.7**	0.00	% by Weight	1	06/10/2020	06/11/2020 07:20	SM 2540B	

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DUP-011

R202407-04 (Soil)

Date Sampled
06/10/2020 07:35

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006019**			
1,1-Dichloroethane	ND	37	ug/kg dry	1	06/10/2020	06/10/2020 13:18	EPA 8260B	
1,1-Dichloroethene	ND	37	ug/kg dry	1	06/10/2020	06/10/2020 13:18	EPA 8260B	
cis-1,2-Dichloroethene	ND	37	ug/kg dry	1	06/10/2020	06/10/2020 13:18	EPA 8260B	
Methylene chloride	ND	150	ug/kg dry	1	06/10/2020	06/10/2020 13:18	EPA 8260B	
Tetrachloroethene	ND	37	ug/kg dry	1	06/10/2020	06/10/2020 13:18	EPA 8260B	
trans-1,2-Dichloroethene	ND	37	ug/kg dry	1	06/10/2020	06/10/2020 13:18	EPA 8260B	
Trichloroethene	**790**	37	ug/kg dry	1	06/10/2020	06/10/2020 13:18	EPA 8260B	
Vinyl chloride	ND	37	ug/kg dry	1	06/10/2020	06/10/2020 13:18	EPA 8260B	
Surrogate: Toluene-d8		*90.4 %*		*61.9-110*	*06/10/2020*	*06/10/2020 13:18*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*75.7 %*		*59.1-115*	*06/10/2020*	*06/10/2020 13:18*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*95.0 %*		*80-120*	*06/10/2020*	*06/10/2020 13:18*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006020**			
% Solids	**85.4**	0.00	% by Weight	1	06/10/2020	06/11/2020 07:20	SM 2540B	

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DPT-028 (21-22)
R202407-05 (Soil)

Date Sampled
06/10/2020 08:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006019**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/10/2020	06/10/2020 13:47	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/10/2020	06/10/2020 13:47	EPA 8260B	
cis-1,2-Dichloroethene	**38**	28	ug/kg dry	1	06/10/2020	06/10/2020 13:47	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/10/2020	06/10/2020 13:47	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/10/2020	06/10/2020 13:47	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/10/2020	06/10/2020 13:47	EPA 8260B	
Trichloroethene	**3300**	110	ug/kg dry	4	06/10/2020	06/10/2020 18:02	EPA 8260B	D
Vinyl chloride	ND	28	ug/kg dry	1	06/10/2020	06/10/2020 13:47	EPA 8260B	
Surrogate: Toluene-d8		*81.3 %*		*61.9-110*	*06/10/2020*	*06/10/2020 13:47*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*67.6 %*		*59.1-115*	*06/10/2020*	*06/10/2020 13:47*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*87.5 %*		*80-120*	*06/10/2020*	*06/10/2020 13:47*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006020**			
% Solids	**88.1**	0.00	% by Weight	1	06/10/2020	06/11/2020 07:20	SM 2540B	

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DPT-029 (7-8)

R202408-01 (Soil)

Date Sampled
06/11/2020 07:55

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 11:48	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 11:48	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 11:48	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/11/2020	06/11/2020 11:48	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 11:48	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 11:48	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 11:48	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 11:48	EPA 8260B	
Surrogate: Toluene-d8		*88.9 %*		*61.9-110*	*06/11/2020*	*06/11/2020 11:48*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.4 %*		*59.1-115*	*06/11/2020*	*06/11/2020 11:48*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*84.3 %*		*80-120*	*06/11/2020*	*06/11/2020 11:48*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**93.6**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project Manager: Lynn Lutz

DUP-12

R202408-02 (Soil)

Date Sampled
06/11/2020 07:30

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 14:09	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 14:09	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 14:09	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/11/2020	06/11/2020 14:09	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 14:09	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 14:09	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 14:09	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/11/2020	06/11/2020 14:09	EPA 8260B	
Surrogate: Toluene-d8		*93.7 %*		*61.9-110*	*06/11/2020*	*06/11/2020 14:09*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.4 %*		*59.1-115*	*06/11/2020*	*06/11/2020 14:09*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.6 %*		*80-120*	*06/11/2020*	*06/11/2020 14:09*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**94.1**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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DPT-029 (13-14)
R202408-03 (Soil)

Date Sampled
06/11/2020 08:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:16	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:16	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:16	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/11/2020	06/11/2020 12:16	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:16	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:16	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:16	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:16	EPA 8260B	
Surrogate: Toluene-d8		*91.5 %*		*61.9-110*	*06/11/2020*	*06/11/2020 12:16*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*90.6 %*		*59.1-115*	*06/11/2020*	*06/11/2020 12:16*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.5 %*		*80-120*	*06/11/2020*	*06/11/2020 12:16*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**88.4**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project Manager: Lynn Lutz

DPT-029 (17-18)
R202408-04 (Soil)

Date Sampled
06/11/2020 08:15

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:44	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:44	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:44	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/11/2020	06/11/2020 12:44	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:44	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:44	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:44	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 12:44	EPA 8260B	
Surrogate: Toluene-d8		*94.2 %*		*61.9-110*	*06/11/2020*	*06/11/2020 12:44*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*89.4 %*		*59.1-115*	*06/11/2020*	*06/11/2020 12:44*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*93.3 %*		*80-120*	*06/11/2020*	*06/11/2020 12:44*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**93.2**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-029 (21-22)
R202408-05 (Soil)

Date Sampled
06/11/2020 08:20

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	31	ug/kg dry	1	06/11/2020	06/11/2020 13:12	EPA 8260B	
1,1-Dichloroethene	ND	31	ug/kg dry	1	06/11/2020	06/11/2020 13:12	EPA 8260B	
cis-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/11/2020	06/11/2020 13:12	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/11/2020	06/11/2020 13:12	EPA 8260B	
Tetrachloroethene	ND	31	ug/kg dry	1	06/11/2020	06/11/2020 13:12	EPA 8260B	
trans-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/11/2020	06/11/2020 13:12	EPA 8260B	
Trichloroethene	ND	31	ug/kg dry	1	06/11/2020	06/11/2020 13:12	EPA 8260B	
Vinyl chloride	ND	31	ug/kg dry	1	06/11/2020	06/11/2020 13:12	EPA 8260B	
Surrogate: Toluene-d8		*92.4 %*		*61.9-110*	*06/11/2020*	*06/11/2020 13:12*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*88.9 %*		*59.1-115*	*06/11/2020*	*06/11/2020 13:12*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*91.3 %*		*80-120*	*06/11/2020*	*06/11/2020 13:12*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**92.0**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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HDR	Project: Longhorn Army Ammunition Plant (AAP)
9781 S. Merician Blvd., Suite 400	Project Number: 10097916
Englewood CO, 80112	Project Manager: Lynn Lutz

DUP-13

R202408-06 (Soil)

Date Sampled
06/11/2020 08:25

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 13:41	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 13:41	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 13:41	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/11/2020	06/11/2020 13:41	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 13:41	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 13:41	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 13:41	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 13:41	EPA 8260B	
Surrogate: Toluene-d8		*96.0 %*		*61.9-110*	*06/11/2020*	*06/11/2020 13:41*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*91.0 %*		*59.1-115*	*06/11/2020*	*06/11/2020 13:41*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*95.2 %*		*80-120*	*06/11/2020*	*06/11/2020 13:41*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**94.7**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-030 (10-11)
R202408-07 (Soil)

Date Sampled
06/11/2020 13:45

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 20:40	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 20:40	EPA 8260B	
cis-1,2-Dichloroethene	**160**	28	ug/kg dry	1	06/11/2020	06/11/2020 20:40	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/11/2020	06/11/2020 20:40	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 20:40	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 20:40	EPA 8260B	
Trichloroethene	**16000**	280	ug/kg dry	10	06/11/2020	06/12/2020 10:26	EPA 8260B	D
Vinyl chloride	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 20:40	EPA 8260B	
Surrogate: Toluene-d8		*94.8 %*		*61.9-110*	*06/11/2020*	*06/11/2020 20:40*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*93.6 %*		*59.1-115*	*06/11/2020*	*06/11/2020 20:40*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*93.6 %*		*80-120*	*06/11/2020*	*06/11/2020 20:40*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**86.2**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DUP-14

R202408-08 (Soil)

Date Sampled
06/11/2020 14:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 21:07	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 21:07	EPA 8260B	
cis-1,2-Dichloroethene	**170**	28	ug/kg dry	1	06/11/2020	06/11/2020 21:07	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/11/2020	06/11/2020 21:07	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 21:07	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 21:07	EPA 8260B	
Trichloroethene	**17000**	280	ug/kg dry	10	06/11/2020	06/12/2020 10:54	EPA 8260B	D
Vinyl chloride	ND	28	ug/kg dry	1	06/11/2020	06/11/2020 21:07	EPA 8260B	
Surrogate: Toluene-d8		*88.8 %*		*61.9-110*	*06/11/2020*	*06/11/2020 21:07*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.6 %*		*59.1-115*	*06/11/2020*	*06/11/2020 21:07*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*86.2 %*		*80-120*	*06/11/2020*	*06/11/2020 21:07*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**86.5**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project Manager: Lynn Lutz

DPT-030 (15-16)

R202408-09 (Soil)

Date Sampled
06/11/2020 13:55

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 21:35	EPA 8260B	
1,1-Dichloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 21:35	EPA 8260B	
cis-1,2-Dichloroethene	**74**	32	ug/kg dry	1	06/11/2020	06/11/2020 21:35	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/11/2020	06/11/2020 21:35	EPA 8260B	
Tetrachloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 21:35	EPA 8260B	
trans-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 21:35	EPA 8260B	
Trichloroethene	**7900**	160	ug/kg dry	5	06/11/2020	06/12/2020 09:59	EPA 8260B	D
Vinyl chloride	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 21:35	EPA 8260B	
Surrogate: Toluene-d8		*89.0 %*		*61.9-110*	*06/11/2020*	*06/11/2020 21:35*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.9 %*		*59.1-115*	*06/11/2020*	*06/11/2020 21:35*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*87.5 %*		*80-120*	*06/11/2020*	*06/11/2020 21:35*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**79.5**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-030 (17-18)
R202408-10 (Soil)

Date Sampled
06/11/2020 14:05

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 22:02	EPA 8260B	
1,1-Dichloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 22:02	EPA 8260B	
cis-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 22:02	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/11/2020	06/11/2020 22:02	EPA 8260B	
Tetrachloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 22:02	EPA 8260B	
trans-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 22:02	EPA 8260B	
Trichloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 22:02	EPA 8260B	
Vinyl chloride	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 22:02	EPA 8260B	
Surrogate: Toluene-d8		*92.0 %*		*61.9-110*	*06/11/2020*	*06/11/2020 22:02*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*89.2 %*		*59.1-115*	*06/11/2020*	*06/11/2020 22:02*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.9 %*		*80-120*	*06/11/2020*	*06/11/2020 22:02*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**91.2**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-030 (19-20)

R202408-11 (Soil)

Date Sampled
06/11/2020 14:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:29	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:29	EPA 8260B	
cis-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:29	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/11/2020	06/11/2020 22:29	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:29	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:29	EPA 8260B	
Trichloroethene	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:29	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:29	EPA 8260B	
Surrogate: Toluene-d8		*90.1 %*		*61.9-110*	*06/11/2020*	*06/11/2020 22:29*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.6 %*		*59.1-115*	*06/11/2020*	*06/11/2020 22:29*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.0 %*		*80-120*	*06/11/2020*	*06/11/2020 22:29*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**90.8**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-027 (17-18)
R202408-12 (Soil)

Date Sampled
06/11/2020 17:05

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:56	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:56	EPA 8260B	
cis-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:56	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/11/2020	06/11/2020 22:56	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:56	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:56	EPA 8260B	
Trichloroethene	**100**	30	ug/kg dry	1	06/11/2020	06/11/2020 22:56	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/11/2020	06/11/2020 22:56	EPA 8260B	
Surrogate: Toluene-d8		*84.4 %*		*61.9-110*	*06/11/2020*	*06/11/2020 22:56*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.2 %*		*59.1-115*	*06/11/2020*	*06/11/2020 22:56*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*79.9 %*		*80-120*	*06/11/2020*	*06/11/2020 22:56*	*EPA 8260B*	*S*
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**80.2**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-027 (22-23)
R202408-13 (Soil)

Date Sampled
06/11/2020 17:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006022**			
1,1-Dichloroethane	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 23:23	EPA 8260B	
1,1-Dichloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 23:23	EPA 8260B	
cis-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 23:23	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/11/2020	06/11/2020 23:23	EPA 8260B	
Tetrachloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 23:23	EPA 8260B	
trans-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 23:23	EPA 8260B	
Trichloroethene	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 23:23	EPA 8260B	
Vinyl chloride	ND	32	ug/kg dry	1	06/11/2020	06/11/2020 23:23	EPA 8260B	
Surrogate: Toluene-d8		*92.9 %*		*61.9-110*	*06/11/2020*	*06/11/2020 23:23*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*90.7 %*		*59.1-115*	*06/11/2020*	*06/11/2020 23:23*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.2 %*		*80-120*	*06/11/2020*	*06/11/2020 23:23*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006023**			
% Solids	**93.4**	0.00	% by Weight	1	06/11/2020	06/12/2020 07:54	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

EB-01

R202409-01 (Water)

Date Sampled
06/11/2020 07:20

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006021**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 10:39	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/12/2020	06/13/2020 10:39	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 10:39	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/12/2020	06/13/2020 10:39	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 10:39	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 10:39	EPA 8260B	
Trichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 10:39	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/12/2020	06/13/2020 10:39	EPA 8260B	
Surrogate: Toluene-d8		*92.3 %*		*82.5-107*	*06/12/2020*	*06/13/2020 10:39*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*80.5 %*		*78.3-109*	*06/12/2020*	*06/13/2020 10:39*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*87.0 %*		*80-120*	*06/12/2020*	*06/13/2020 10:39*	*EPA 8260B*	

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HDR	Project: Longhorn Army Ammunition Plant (AAP)
9781 S. Merician Blvd., Suite 400	Project Number: 10097916
Englewood CO, 80112	Project Manager: Lynn Lutz

EB-02

R202409-02 (Water)

Date Sampled
06/11/2020 07:45

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006021**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:07	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:07	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:07	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/12/2020	06/13/2020 11:07	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:07	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:07	EPA 8260B	
Trichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:07	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:07	EPA 8260B	
Surrogate: Toluene-d8		*94.4 %*		*82.5-107*	*06/12/2020*	*06/13/2020 11:07*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*93.9 %*		*78.3-109*	*06/12/2020*	*06/13/2020 11:07*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.5 %*		*80-120*	*06/12/2020*	*06/13/2020 11:07*	*EPA 8260B*	

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Project Number: 10097916
Project Manager: Lynn Lutz

EB-03

R202409-03 (Water)

Date Sampled
06/12/2020 06:50

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006021**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:35	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:35	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:35	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/12/2020	06/13/2020 11:35	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:35	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:35	EPA 8260B	
Trichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:35	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/12/2020	06/13/2020 11:35	EPA 8260B	
Surrogate: Toluene-d8		*94.2 %*		*82.5-107*	*06/12/2020*	*06/13/2020 11:35*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*90.8 %*		*78.3-109*	*06/12/2020*	*06/13/2020 11:35*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*98.3 %*		*80-120*	*06/12/2020*	*06/13/2020 11:35*	*EPA 8260B*	

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Englewood CO, 80112	Project Manager: Lynn Lutz

EB-04

R202409-04 (Water)

Date Sampled
06/12/2020 06:55

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006021**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 08:20	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/12/2020	06/13/2020 08:20	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 08:20	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/12/2020	06/13/2020 08:20	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 08:20	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 08:20	EPA 8260B	
Trichloroethene	ND	0.50	ug/L	1	06/12/2020	06/13/2020 08:20	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/12/2020	06/13/2020 08:20	EPA 8260B	
Surrogate: Toluene-d8		*96.1 %*		*82.5-107*	*06/12/2020*	*06/13/2020 08:20*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*91.7 %*		*78.3-109*	*06/12/2020*	*06/13/2020 08:20*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.0 %*		*80-120*	*06/12/2020*	*06/13/2020 08:20*	*EPA 8260B*	

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DPT-029 (45)

R202409-05 (Water)

Date Sampled
06/12/2020 07:10

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006021**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	10	ug/L	20	06/12/2020	06/12/2020 09:31	EPA 8260B	
1,2-Dichloroethane	ND	10	ug/L	20	06/12/2020	06/12/2020 09:31	EPA 8260B	
cis-1,2-Dichloroethene	**700**	10	ug/L	20	06/12/2020	06/12/2020 09:31	EPA 8260B	D
Methylene chloride	ND	40	ug/L	20	06/12/2020	06/12/2020 09:31	EPA 8260B	
Tetrachloroethene	ND	10	ug/L	20	06/12/2020	06/12/2020 09:31	EPA 8260B	
trans-1,2-Dichloroethene	ND	10	ug/L	20	06/12/2020	06/12/2020 09:31	EPA 8260B	
Trichloroethene	**11000**	250	ug/L	500	06/12/2020	06/12/2020 11:22	EPA 8260B	D
Vinyl chloride	ND	10	ug/L	20	06/12/2020	06/12/2020 09:31	EPA 8260B	
Surrogate: Toluene-d8		*94.3 %*		*82.5-107*	*06/12/2020*	*06/12/2020 09:31*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.4 %*		*78.3-109*	*06/12/2020*	*06/12/2020 09:31*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*89.5 %*		*80-120*	*06/12/2020*	*06/12/2020 09:31*	*EPA 8260B*	

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DUP-15

R202409-06 (Water)

Date Sampled
06/12/2020 07:00

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006021**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	250	ug/L	500	06/12/2020	06/12/2020 12:17	EPA 8260B	
1,2-Dichloroethane	ND	250	ug/L	500	06/12/2020	06/12/2020 12:17	EPA 8260B	
cis-1,2-Dichloroethene	**730**	250	ug/L	500	06/12/2020	06/12/2020 12:17	EPA 8260B	D
Methylene chloride	ND	1000	ug/L	500	06/12/2020	06/12/2020 12:17	EPA 8260B	
Tetrachloroethene	ND	250	ug/L	500	06/12/2020	06/12/2020 12:17	EPA 8260B	
trans-1,2-Dichloroethene	ND	250	ug/L	500	06/12/2020	06/12/2020 12:17	EPA 8260B	
Trichloroethene	**13000**	250	ug/L	500	06/12/2020	06/12/2020 12:17	EPA 8260B	D
Vinyl chloride	ND	250	ug/L	500	06/12/2020	06/12/2020 12:17	EPA 8260B	
Surrogate: Toluene-d8		*91.1 %*		*82.5-107*	*06/12/2020*	*06/12/2020 12:17*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.4 %*		*78.3-109*	*06/12/2020*	*06/12/2020 12:17*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.9 %*		*80-120*	*06/12/2020*	*06/12/2020 12:17*	*EPA 8260B*	

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DPT-029 (34)

R202409-07 (Water)

Date Sampled
06/12/2020 07:25

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006021**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	250	ug/L	500	06/12/2020	06/12/2020 11:49	EPA 8260B	
1,2-Dichloroethane	ND	250	ug/L	500	06/12/2020	06/12/2020 11:49	EPA 8260B	
cis-1,2-Dichloroethene	**1200**	250	ug/L	500	06/12/2020	06/12/2020 11:49	EPA 8260B	D
Methylene chloride	ND	1000	ug/L	500	06/12/2020	06/12/2020 11:49	EPA 8260B	
Tetrachloroethene	ND	250	ug/L	500	06/12/2020	06/12/2020 11:49	EPA 8260B	
trans-1,2-Dichloroethene	ND	250	ug/L	500	06/12/2020	06/12/2020 11:49	EPA 8260B	
Trichloroethene	**22000**	250	ug/L	500	06/12/2020	06/12/2020 11:49	EPA 8260B	D
Vinyl chloride	ND	250	ug/L	500	06/12/2020	06/12/2020 11:49	EPA 8260B	
Surrogate: Toluene-d8		*95.4 %*		*82.5-107*	*06/12/2020*	*06/12/2020 11:49*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*83.2 %*		*78.3-109*	*06/12/2020*	*06/12/2020 11:49*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*86.0 %*		*80-120*	*06/12/2020*	*06/12/2020 11:49*	*EPA 8260B*	

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DUP-16

R202409-08 (Water)

Date Sampled
06/12/2020 07:15

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006021**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	250	ug/L	500	06/12/2020	06/12/2020 12:45	EPA 8260B	
1,2-Dichloroethane	ND	250	ug/L	500	06/12/2020	06/12/2020 12:45	EPA 8260B	
cis-1,2-Dichloroethene	**1200**	250	ug/L	500	06/12/2020	06/12/2020 12:45	EPA 8260B	D
Methylene chloride	ND	1000	ug/L	500	06/12/2020	06/12/2020 12:45	EPA 8260B	
Tetrachloroethene	ND	250	ug/L	500	06/12/2020	06/12/2020 12:45	EPA 8260B	
trans-1,2-Dichloroethene	ND	250	ug/L	500	06/12/2020	06/12/2020 12:45	EPA 8260B	
Trichloroethene	**21000**	250	ug/L	500	06/12/2020	06/12/2020 12:45	EPA 8260B	D
Vinyl chloride	ND	250	ug/L	500	06/12/2020	06/12/2020 12:45	EPA 8260B	
Surrogate: Toluene-d8		*92.6 %*		*82.5-107*	*06/12/2020*	*06/12/2020 12:45*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.3 %*		*78.3-109*	*06/12/2020*	*06/12/2020 12:45*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.6 %*		*80-120*	*06/12/2020*	*06/12/2020 12:45*	*EPA 8260B*	

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DPT-031 (33)

R202409-09 (Water)

Date Sampled
06/12/2020 14:50

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006021**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	100	ug/L	200	06/12/2020	06/13/2020 08:48	EPA 8260B	
1,2-Dichloroethane	ND	100	ug/L	200	06/12/2020	06/13/2020 08:48	EPA 8260B	
cis-1,2-Dichloroethene	**310**	100	ug/L	200	06/12/2020	06/13/2020 08:48	EPA 8260B	D
Methylene chloride	ND	400	ug/L	200	06/12/2020	06/13/2020 08:48	EPA 8260B	
Tetrachloroethene	ND	100	ug/L	200	06/12/2020	06/13/2020 08:48	EPA 8260B	
trans-1,2-Dichloroethene	ND	100	ug/L	200	06/12/2020	06/13/2020 08:48	EPA 8260B	
Trichloroethene	**41000**	1000	ug/L	2000	06/12/2020	06/13/2020 10:11	EPA 8260B	D
Vinyl chloride	ND	100	ug/L	200	06/12/2020	06/13/2020 08:48	EPA 8260B	
Surrogate: Toluene-d8		*97.6 %*		*82.5-107*	*06/12/2020*	*06/13/2020 08:48*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*90.0 %*		*78.3-109*	*06/12/2020*	*06/13/2020 08:48*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*93.0 %*		*80-120*	*06/12/2020*	*06/13/2020 08:48*	*EPA 8260B*	

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Project Manager: Lynn Lutz

DPT-027 (33)

R202409-10 (Water)

Date Sampled
06/12/2020 15:05

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006021**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	100	ug/L	200	06/12/2020	06/13/2020 09:15	EPA 8260B	
1,2-Dichloroethane	ND	100	ug/L	200	06/12/2020	06/13/2020 09:15	EPA 8260B	
cis-1,2-Dichloroethene	ND	100	ug/L	200	06/12/2020	06/13/2020 09:15	EPA 8260B	
Methylene chloride	ND	400	ug/L	200	06/12/2020	06/13/2020 09:15	EPA 8260B	
Tetrachloroethene	ND	100	ug/L	200	06/12/2020	06/13/2020 09:15	EPA 8260B	
trans-1,2-Dichloroethene	ND	100	ug/L	200	06/12/2020	06/13/2020 09:15	EPA 8260B	
Trichloroethene	**3500**	100	ug/L	200	06/12/2020	06/13/2020 09:15	EPA 8260B	D
Vinyl chloride	ND	100	ug/L	200	06/12/2020	06/13/2020 09:15	EPA 8260B	
Surrogate: Toluene-d8		*92.9 %*		*82.5-107*	*06/12/2020*	*06/13/2020 09:15*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*92.0 %*		*78.3-109*	*06/12/2020*	*06/13/2020 09:15*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.9 %*		*80-120*	*06/12/2020*	*06/13/2020 09:15*	*EPA 8260B*	

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DPT-031 (12-13)
R202410-01 (Soil)

Date Sampled
06/12/2020 10:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006024**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/12/2020	06/12/2020 13:13	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/12/2020	06/12/2020 13:13	EPA 8260B	
cis-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/12/2020	06/12/2020 13:13	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/12/2020	06/12/2020 13:13	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/12/2020	06/12/2020 13:13	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/12/2020	06/12/2020 13:13	EPA 8260B	
Trichloroethene	**27**	27	ug/kg dry	1	06/12/2020	06/12/2020 13:13	EPA 8260B	M, X
Vinyl chloride	ND	27	ug/kg dry	1	06/12/2020	06/12/2020 13:13	EPA 8260B	
Surrogate: Toluene-d8		*89.3 %*		*61.9-110*	*06/12/2020*	*06/12/2020 13:13*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*80.9 %*		*59.1-115*	*06/12/2020*	*06/12/2020 13:13*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*85.0 %*		*80-120*	*06/12/2020*	*06/12/2020 13:13*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006025**			
% Solids	**89.0**	0.00	% by Weight	1	06/12/2020	06/13/2020 07:33	SM 2540B	

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DPT-031 (3-4)

R202410-02 (Soil)

Date Sampled
06/12/2020 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006024**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/12/2020	06/12/2020 14:38	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/12/2020	06/12/2020 14:38	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/12/2020	06/12/2020 14:38	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/12/2020	06/12/2020 14:38	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/12/2020	06/12/2020 14:38	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/12/2020	06/12/2020 14:38	EPA 8260B	
Trichloroethene	**65**	28	ug/kg dry	1	06/12/2020	06/12/2020 14:38	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/12/2020	06/12/2020 14:38	EPA 8260B	
Surrogate: Toluene-d8		*81.9 %*		*61.9-110*	*06/12/2020*	*06/12/2020 14:38*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*74.4 %*		*59.1-115*	*06/12/2020*	*06/12/2020 14:38*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*80.7 %*		*80-120*	*06/12/2020*	*06/12/2020 14:38*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006025**			
% Solids	**84.5**	0.00	% by Weight	1	06/12/2020	06/13/2020 07:33	SM 2540B	

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MOBILE LAB SERVICES

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

HDR
9781 S. Merician Blvd., Suite 400
Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-031 (16-17)
R202410-03 (Soil)

Date Sampled
06/12/2020 11:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006024**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/12/2020	06/12/2020 15:06	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/12/2020	06/12/2020 15:06	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/12/2020	06/12/2020 15:06	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/12/2020	06/12/2020 15:06	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/12/2020	06/12/2020 15:06	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/12/2020	06/12/2020 15:06	EPA 8260B	
Trichloroethene	**560**	26	ug/kg dry	1	06/12/2020	06/12/2020 15:06	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/12/2020	06/12/2020 15:06	EPA 8260B	
Surrogate: Toluene-d8		*96.0 %*		*61.9-110*	*06/12/2020*	*06/12/2020 15:06*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*88.5 %*		*59.1-115*	*06/12/2020*	*06/12/2020 15:06*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*91.4 %*		*80-120*	*06/12/2020*	*06/12/2020 15:06*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006025**			
% Solids	**86.2**	0.00	% by Weight	1	06/12/2020	06/13/2020 07:33	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-031 (21-22)
R202410-04 (Soil)

Date Sampled
06/12/2020 12:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006024**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/12/2020	06/12/2020 15:34	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/12/2020	06/12/2020 15:34	EPA 8260B	
cis-1,2-Dichloroethene	**34**	29	ug/kg dry	1	06/12/2020	06/12/2020 15:34	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/12/2020	06/12/2020 15:34	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/12/2020	06/12/2020 15:34	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/12/2020	06/12/2020 15:34	EPA 8260B	
Trichloroethene	**2000**	29	ug/kg dry	1	06/12/2020	06/12/2020 15:34	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/12/2020	06/12/2020 15:34	EPA 8260B	
Surrogate: Toluene-d8		*93.9 %*		*61.9-110*	*06/12/2020*	*06/12/2020 15:34*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*89.8 %*		*59.1-115*	*06/12/2020*	*06/12/2020 15:34*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*92.9 %*		*80-120*	*06/12/2020*	*06/12/2020 15:34*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006025**			
% Solids	**83.5**	0.00	% by Weight	1	06/12/2020	06/13/2020 07:33	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-032 (12-13)
R202411-01 (Soil)

Date Sampled
06/13/2020 09:15

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006026**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 12:03	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 12:03	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 12:03	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/13/2020	06/13/2020 12:03	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 12:03	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 12:03	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 12:03	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 12:03	EPA 8260B	
Surrogate: Toluene-d8		*96.1 %*	*61.9-110*		*06/13/2020*	*06/13/2020 12:03*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.9 %*	*59.1-115*		*06/13/2020*	*06/13/2020 12:03*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.0 %*	*80-120*		*06/13/2020*	*06/13/2020 12:03*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006027**			
% Solids	**93.6**	0.00	% by Weight	1	06/13/2020	06/14/2020 07:22	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-032 (15-16)

R202411-02 (Soil)

Date Sampled
06/13/2020 09:20

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006026**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/13/2020	06/13/2020 12:31	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/13/2020	06/13/2020 12:31	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/13/2020	06/13/2020 12:31	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/13/2020	06/13/2020 12:31	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/13/2020	06/13/2020 12:31	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/13/2020	06/13/2020 12:31	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/13/2020	06/13/2020 12:31	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/13/2020	06/13/2020 12:31	EPA 8260B	
Surrogate: Toluene-d8		*93.2 %*		*61.9-110*	*06/13/2020*	*06/13/2020 12:31*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.3 %*		*59.1-115*	*06/13/2020*	*06/13/2020 12:31*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*86.0 %*		*80-120*	*06/13/2020*	*06/13/2020 12:31*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006027**			
% Solids	**92.9**	0.00	% by Weight	1	06/13/2020	06/14/2020 07:22	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-032 (19-20)

R202411-03 (Soil)

Date Sampled
06/13/2020 09:25

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006026**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 13:56	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 13:56	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 13:56	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/13/2020	06/13/2020 13:56	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 13:56	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 13:56	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 13:56	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 13:56	EPA 8260B	
Surrogate: Toluene-d8		*92.2 %*		*61.9-110*	*06/13/2020*	*06/13/2020 13:56*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.4 %*		*59.1-115*	*06/13/2020*	*06/13/2020 13:56*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*86.2 %*		*80-120*	*06/13/2020*	*06/13/2020 13:56*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006027**			
% Solids	**87.9**	0.00	% by Weight	1	06/13/2020	06/14/2020 07:22	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-032 (21-22)

R202411-04 (Soil)

Date Sampled
06/13/2020 09:30

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006026**			
1,1-Dichloroethane	ND	32	ug/kg dry	1	06/13/2020	06/13/2020 14:24	EPA 8260B	
1,1-Dichloroethene	ND	32	ug/kg dry	1	06/13/2020	06/13/2020 14:24	EPA 8260B	
cis-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/13/2020	06/13/2020 14:24	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/13/2020	06/13/2020 14:24	EPA 8260B	
Tetrachloroethene	ND	32	ug/kg dry	1	06/13/2020	06/13/2020 14:24	EPA 8260B	
trans-1,2-Dichloroethene	ND	32	ug/kg dry	1	06/13/2020	06/13/2020 14:24	EPA 8260B	
Trichloroethene	ND	32	ug/kg dry	1	06/13/2020	06/13/2020 14:24	EPA 8260B	
Vinyl chloride	ND	32	ug/kg dry	1	06/13/2020	06/13/2020 14:24	EPA 8260B	
Surrogate: Toluene-d8		*92.7 %*		*61.9-110*	*06/13/2020*	*06/13/2020 14:24*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.7 %*		*59.1-115*	*06/13/2020*	*06/13/2020 14:24*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*89.7 %*		*80-120*	*06/13/2020*	*06/13/2020 14:24*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006027**			
% Solids	**89.3**	0.00	% by Weight	1	06/13/2020	06/14/2020 07:22	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-033 (8-9)

R202411-05 (Soil)

Date Sampled
06/13/2020 12:20

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006026**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/13/2020	06/13/2020 14:52	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/13/2020	06/13/2020 14:52	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/13/2020	06/13/2020 14:52	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/13/2020	06/13/2020 14:52	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/13/2020	06/13/2020 14:52	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/13/2020	06/13/2020 14:52	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/13/2020	06/13/2020 14:52	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/13/2020	06/13/2020 14:52	EPA 8260B	
Surrogate: Toluene-d8		*101 %*	*61.9-110*		*06/13/2020*	*06/13/2020 14:52*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*93.8 %*	*59.1-115*		*06/13/2020*	*06/13/2020 14:52*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.3 %*	*80-120*		*06/13/2020*	*06/13/2020 14:52*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006027**			
% Solids	**92.7**	0.00	% by Weight	1	06/13/2020	06/14/2020 07:22	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-033 (12-13)
R202411-06 (Soil)

Date Sampled
06/13/2020 12:30

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006026**			
1,1-Dichloroethane	ND	25	ug/kg dry	1	06/13/2020	06/13/2020 15:20	EPA 8260B	
1,1-Dichloroethene	ND	25	ug/kg dry	1	06/13/2020	06/13/2020 15:20	EPA 8260B	
cis-1,2-Dichloroethene	ND	25	ug/kg dry	1	06/13/2020	06/13/2020 15:20	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/13/2020	06/13/2020 15:20	EPA 8260B	
Tetrachloroethene	ND	25	ug/kg dry	1	06/13/2020	06/13/2020 15:20	EPA 8260B	
trans-1,2-Dichloroethene	ND	25	ug/kg dry	1	06/13/2020	06/13/2020 15:20	EPA 8260B	
Trichloroethene	ND	25	ug/kg dry	1	06/13/2020	06/13/2020 15:20	EPA 8260B	
Vinyl chloride	ND	25	ug/kg dry	1	06/13/2020	06/13/2020 15:20	EPA 8260B	
Surrogate: Toluene-d8		*95.3 %*		*61.9-110*	*06/13/2020*	*06/13/2020 15:20*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.1 %*		*59.1-115*	*06/13/2020*	*06/13/2020 15:20*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*89.2 %*		*80-120*	*06/13/2020*	*06/13/2020 15:20*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006027**			
% Solids	**91.5**	0.00	% by Weight	1	06/13/2020	06/14/2020 07:22	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-033 (19-20)

R202411-07 (Soil)

Date Sampled
06/13/2020 12:35

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006026**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/13/2020	06/13/2020 15:48	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/13/2020	06/13/2020 15:48	EPA 8260B	
cis-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/13/2020	06/13/2020 15:48	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/13/2020	06/13/2020 15:48	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/13/2020	06/13/2020 15:48	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/13/2020	06/13/2020 15:48	EPA 8260B	
Trichloroethene	**520**	27	ug/kg dry	1	06/13/2020	06/13/2020 15:48	EPA 8260B	
Vinyl chloride	ND	27	ug/kg dry	1	06/13/2020	06/13/2020 15:48	EPA 8260B	
Surrogate: Toluene-d8		*90.7 %*		*61.9-110*	*06/13/2020*	*06/13/2020 15:48*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.0 %*		*59.1-115*	*06/13/2020*	*06/13/2020 15:48*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.0 %*		*80-120*	*06/13/2020*	*06/13/2020 15:48*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006027**			
% Solids	**88.1**	0.00	% by Weight	1	06/13/2020	06/14/2020 07:22	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-033 (22-23)

R202411-08 (Soil)

Date Sampled
06/13/2020 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006026**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 16:17	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 16:17	EPA 8260B	
cis-1,2-Dichloroethene	**39**	26	ug/kg dry	1	06/13/2020	06/13/2020 16:17	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/13/2020	06/13/2020 16:17	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 16:17	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 16:17	EPA 8260B	
Trichloroethene	**1700**	26	ug/kg dry	1	06/13/2020	06/13/2020 16:17	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/13/2020	06/13/2020 16:17	EPA 8260B	
Surrogate: Toluene-d8		*90.0 %*		*61.9-110*	*06/13/2020*	*06/13/2020 16:17*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.3 %*		*59.1-115*	*06/13/2020*	*06/13/2020 16:17*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*89.2 %*		*80-120*	*06/13/2020*	*06/13/2020 16:17*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006027**			
% Solids	**87.9**	0.00	% by Weight	1	06/13/2020	06/14/2020 07:22	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-032 (35)

R202412-01 (Water)

Date Sampled
06/13/2020 15:50

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006028**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	0.50	ug/L	1	06/14/2020	06/14/2020 16:04	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/14/2020	06/14/2020 16:04	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/14/2020	06/14/2020 16:04	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/14/2020	06/14/2020 16:04	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/14/2020	06/14/2020 16:04	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/14/2020	06/14/2020 16:04	EPA 8260B	
Trichloroethene	**6.6**	0.50	ug/L	1	06/14/2020	06/14/2020 16:04	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/14/2020	06/14/2020 16:04	EPA 8260B	
Surrogate: Toluene-d8		*94.4 %*		*82.5-107*	*06/14/2020*	*06/14/2020 16:04*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*89.2 %*		*78.3-109*	*06/14/2020*	*06/14/2020 16:04*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*93.8 %*		*80-120*	*06/14/2020*	*06/14/2020 16:04*	*EPA 8260B*	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-032 (49.5)

R202412-02 (Water)

Date Sampled
06/13/2020 16:00

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006028**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	2.5	ug/L	5	06/14/2020	06/14/2020 10:24	EPA 8260B	
1,2-Dichloroethane	ND	2.5	ug/L	5	06/14/2020	06/14/2020 10:24	EPA 8260B	
cis-1,2-Dichloroethene	**7.4**	2.5	ug/L	5	06/14/2020	06/14/2020 10:24	EPA 8260B	D
Methylene chloride	ND	10	ug/L	5	06/14/2020	06/14/2020 10:24	EPA 8260B	
Tetrachloroethene	ND	2.5	ug/L	5	06/14/2020	06/14/2020 10:24	EPA 8260B	
trans-1,2-Dichloroethene	ND	2.5	ug/L	5	06/14/2020	06/14/2020 10:24	EPA 8260B	
Trichloroethene	**61**	2.5	ug/L	5	06/14/2020	06/14/2020 10:24	EPA 8260B	D
Vinyl chloride	ND	2.5	ug/L	5	06/14/2020	06/14/2020 10:24	EPA 8260B	
Surrogate: Toluene-d8		*92.7 %*		*82.5-107*	*06/14/2020*	*06/14/2020 10:24*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.4 %*		*78.3-109*	*06/14/2020*	*06/14/2020 10:24*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*89.5 %*		*80-120*	*06/14/2020*	*06/14/2020 10:24*	*EPA 8260B*	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-033 (049)

R202501-01 (Water)

Date Sampled
06/14/2020 07:00

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006028**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:28	EPA 8260B	
1,2-Dichloroethane	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:28	EPA 8260B	
cis-1,2-Dichloroethene	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:28	EPA 8260B	
Methylene chloride	ND	2000	ug/L	1000	06/14/2020	06/14/2020 09:28	EPA 8260B	
Tetrachloroethene	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:28	EPA 8260B	
trans-1,2-Dichloroethene	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:28	EPA 8260B	
Trichloroethene	**3300**	500	ug/L	1000	06/14/2020	06/14/2020 09:28	EPA 8260B	D
Vinyl chloride	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:28	EPA 8260B	
Surrogate: Toluene-d8		*94.8 %*		*82.5-107*	*06/14/2020*	*06/14/2020 09:28*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.7 %*		*78.3-109*	*06/14/2020*	*06/14/2020 09:28*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*85.2 %*		*80-120*	*06/14/2020*	*06/14/2020 09:28*	*EPA 8260B*	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-033 (033)

R202501-02 (Water)

Date Sampled
06/14/2020 07:05

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006028**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:56	EPA 8260B	
1,2-Dichloroethane	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:56	EPA 8260B	
cis-1,2-Dichloroethene	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:56	EPA 8260B	
Methylene chloride	ND	2000	ug/L	1000	06/14/2020	06/14/2020 09:56	EPA 8260B	
Tetrachloroethene	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:56	EPA 8260B	
trans-1,2-Dichloroethene	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:56	EPA 8260B	
Trichloroethene	**5700**	500	ug/L	1000	06/14/2020	06/14/2020 09:56	EPA 8260B	D
Vinyl chloride	ND	500	ug/L	1000	06/14/2020	06/14/2020 09:56	EPA 8260B	
Surrogate: Toluene-d8		*91.7 %*		*82.5-107*	*06/14/2020*	*06/14/2020 09:56*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.6 %*		*78.3-109*	*06/14/2020*	*06/14/2020 09:56*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.5 %*		*80-120*	*06/14/2020*	*06/14/2020 09:56*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-034 (033)

R202501-03 (Water)

Date Sampled
06/14/2020 09:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006028**			
1,1-Dichloroethene	ND	0.50	ug/L	1	06/14/2020	06/14/2020 15:35	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/14/2020	06/14/2020 15:35	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1	06/14/2020	06/14/2020 15:35	EPA 8260B	
Methylene chloride	ND	2.0	ug/L	1	06/14/2020	06/14/2020 15:35	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/14/2020	06/14/2020 15:35	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1	06/14/2020	06/14/2020 15:35	EPA 8260B	
Trichloroethene	ND	0.50	ug/L	1	06/14/2020	06/14/2020 15:35	EPA 8260B	
Vinyl chloride	ND	0.50	ug/L	1	06/14/2020	06/14/2020 15:35	EPA 8260B	
Surrogate: Toluene-d8		*94.5 %*		*82.5-107*	*06/14/2020*	*06/14/2020 15:35*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.7 %*		*78.3-109*	*06/14/2020*	*06/14/2020 15:35*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*86.4 %*		*80-120*	*06/14/2020*	*06/14/2020 15:35*	*EPA 8260B*	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-034 (8-9)

R202502-01 (Soil)

Date Sampled
06/14/2020 08:05

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006029**			
1,1-Dichloroethane	ND	25	ug/kg dry	1	06/14/2020	06/14/2020 12:17	EPA 8260B	
1,1-Dichloroethene	ND	25	ug/kg dry	1	06/14/2020	06/14/2020 12:17	EPA 8260B	
cis-1,2-Dichloroethene	ND	25	ug/kg dry	1	06/14/2020	06/14/2020 12:17	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/14/2020	06/14/2020 12:17	EPA 8260B	
Tetrachloroethene	ND	25	ug/kg dry	1	06/14/2020	06/14/2020 12:17	EPA 8260B	
trans-1,2-Dichloroethene	ND	25	ug/kg dry	1	06/14/2020	06/14/2020 12:17	EPA 8260B	
Trichloroethene	ND	25	ug/kg dry	1	06/14/2020	06/14/2020 12:17	EPA 8260B	
Vinyl chloride	ND	25	ug/kg dry	1	06/14/2020	06/14/2020 12:17	EPA 8260B	
Surrogate: Toluene-d8		*92.9 %*		*61.9-110*	*06/14/2020*	*06/14/2020 12:17*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.1 %*		*59.1-115*	*06/14/2020*	*06/14/2020 12:17*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*85.8 %*		*80-120*	*06/14/2020*	*06/14/2020 12:17*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006030**			
% Solids	**86.9**	0.00	% by Weight	1	06/14/2020	06/15/2020 07:21	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-034 (15-16)
R202502-02 (Soil)

Date Sampled
06/14/2020 08:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006029**			
1,1-Dichloroethane	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 11:49	EPA 8260B	
1,1-Dichloroethene	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 11:49	EPA 8260B	
cis-1,2-Dichloroethene	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 11:49	EPA 8260B	
Methylene chloride	ND	140	ug/kg dry	1	06/14/2020	06/14/2020 11:49	EPA 8260B	
Tetrachloroethene	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 11:49	EPA 8260B	
trans-1,2-Dichloroethene	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 11:49	EPA 8260B	
Trichloroethene	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 11:49	EPA 8260B	
Vinyl chloride	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 11:49	EPA 8260B	
Surrogate: Toluene-d8		*96.3 %*		*61.9-110*	*06/14/2020*	*06/14/2020 11:49*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*91.2 %*		*59.1-115*	*06/14/2020*	*06/14/2020 11:49*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*93.7 %*		*80-120*	*06/14/2020*	*06/14/2020 11:49*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006030**			
% Solids	**86.4**	0.00	% by Weight	1	06/14/2020	06/15/2020 07:21	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
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Project Manager: Lynn Lutz

DPT-034 (18-19)
R202502-03 (Soil)

Date Sampled
06/14/2020 08:15

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006029**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 11:20	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 11:20	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 11:20	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/14/2020	06/14/2020 11:20	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 11:20	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 11:20	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 11:20	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 11:20	EPA 8260B	
Surrogate: Toluene-d8		*94.5 %*		*61.9-110*	*06/14/2020*	*06/14/2020 11:20*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.5 %*		*59.1-115*	*06/14/2020*	*06/14/2020 11:20*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.1 %*		*80-120*	*06/14/2020*	*06/14/2020 11:20*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006030**			
% Solids	**84.0**	0.00	% by Weight	1	06/14/2020	06/15/2020 07:21	SM 2540B	

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Project Manager: Lynn Lutz

DPT-034 (22-23)
R202502-04 (Soil)

Date Sampled
06/14/2020 08:20

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006029**			
1,1-Dichloroethane	ND	30	ug/kg dry	1	06/14/2020	06/14/2020 10:52	EPA 8260B	
1,1-Dichloroethene	ND	30	ug/kg dry	1	06/14/2020	06/14/2020 10:52	EPA 8260B	
cis-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/14/2020	06/14/2020 10:52	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/14/2020	06/14/2020 10:52	EPA 8260B	
Tetrachloroethene	ND	30	ug/kg dry	1	06/14/2020	06/14/2020 10:52	EPA 8260B	
trans-1,2-Dichloroethene	ND	30	ug/kg dry	1	06/14/2020	06/14/2020 10:52	EPA 8260B	
Trichloroethene	ND	30	ug/kg dry	1	06/14/2020	06/14/2020 10:52	EPA 8260B	
Vinyl chloride	ND	30	ug/kg dry	1	06/14/2020	06/14/2020 10:52	EPA 8260B	
Surrogate: Toluene-d8		*91.0 %*		*61.9-110*	*06/14/2020*	*06/14/2020 10:52*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*82.4 %*		*59.1-115*	*06/14/2020*	*06/14/2020 10:52*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*86.8 %*		*80-120*	*06/14/2020*	*06/14/2020 10:52*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006030**			
% Solids	**87.7**	0.00	% by Weight	1	06/14/2020	06/15/2020 07:21	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-035 (10-11)
R202502-05 (Soil)

Date Sampled
06/14/2020 12:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006029**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 20:16	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 20:16	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 20:16	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/14/2020	06/14/2020 20:16	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 20:16	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 20:16	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 20:16	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 20:16	EPA 8260B	
Surrogate: Toluene-d8		*97.3 %*		*61.9-110*	*06/14/2020*	*06/14/2020 20:16*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*91.7 %*		*59.1-115*	*06/14/2020*	*06/14/2020 20:16*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*91.7 %*		*80-120*	*06/14/2020*	*06/14/2020 20:16*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006030**			
% Solids	**84.8**	0.00	% by Weight	1	06/14/2020	06/15/2020 07:21	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-035 (15-16)
R202502-06 (Soil)

Date Sampled
06/14/2020 12:55

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006029**			
1,1-Dichloroethane	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 20:43	EPA 8260B	
1,1-Dichloroethene	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 20:43	EPA 8260B	
cis-1,2-Dichloroethene	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 20:43	EPA 8260B	
Methylene chloride	ND	140	ug/kg dry	1	06/14/2020	06/14/2020 20:43	EPA 8260B	
Tetrachloroethene	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 20:43	EPA 8260B	
trans-1,2-Dichloroethene	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 20:43	EPA 8260B	
Trichloroethene	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 20:43	EPA 8260B	
Vinyl chloride	ND	34	ug/kg dry	1	06/14/2020	06/14/2020 20:43	EPA 8260B	
Surrogate: Toluene-d8		*92.9 %*		*61.9-110*	*06/14/2020*	*06/14/2020 20:43*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*88.6 %*		*59.1-115*	*06/14/2020*	*06/14/2020 20:43*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.1 %*		*80-120*	*06/14/2020*	*06/14/2020 20:43*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006030**			
% Solids	**89.6**	0.00	% by Weight	1	06/14/2020	06/15/2020 07:21	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-035 (18-19)
R202502-07 (Soil)

Date Sampled
06/14/2020 13:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006029**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 21:10	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 21:10	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 21:10	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/14/2020	06/14/2020 21:10	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 21:10	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 21:10	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 21:10	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/14/2020	06/14/2020 21:10	EPA 8260B	
Surrogate: Toluene-d8		*92.1 %*		*61.9-110*	*06/14/2020*	*06/14/2020 21:10*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*89.5 %*		*59.1-115*	*06/14/2020*	*06/14/2020 21:10*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*91.7 %*		*80-120*	*06/14/2020*	*06/14/2020 21:10*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006030**			
% Solids	**88.0**	0.00	% by Weight	1	06/14/2020	06/15/2020 07:21	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-035 (21-22)
R202502-08 (Soil)

Date Sampled
06/14/2020 13:05

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006029**			
1,1-Dichloroethane	ND	33	ug/kg dry	1	06/14/2020	06/14/2020 21:38	EPA 8260B	
1,1-Dichloroethene	ND	33	ug/kg dry	1	06/14/2020	06/14/2020 21:38	EPA 8260B	
cis-1,2-Dichloroethene	ND	33	ug/kg dry	1	06/14/2020	06/14/2020 21:38	EPA 8260B	
Methylene chloride	ND	130	ug/kg dry	1	06/14/2020	06/14/2020 21:38	EPA 8260B	
Tetrachloroethene	ND	33	ug/kg dry	1	06/14/2020	06/14/2020 21:38	EPA 8260B	
trans-1,2-Dichloroethene	ND	33	ug/kg dry	1	06/14/2020	06/14/2020 21:38	EPA 8260B	
Trichloroethene	ND	33	ug/kg dry	1	06/14/2020	06/14/2020 21:38	EPA 8260B	
Vinyl chloride	ND	33	ug/kg dry	1	06/14/2020	06/14/2020 21:38	EPA 8260B	
Surrogate: Toluene-d8		*88.8 %*		*61.9-110*	*06/14/2020*	*06/14/2020 21:38*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.1 %*		*59.1-115*	*06/14/2020*	*06/14/2020 21:38*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.9 %*		*80-120*	*06/14/2020*	*06/14/2020 21:38*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006030**			
% Solids	**89.1**	0.00	% by Weight	1	06/14/2020	06/15/2020 07:21	SM 2540B	

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Englewood CO, 80112	Project Manager: Lynn Lutz

DPT-035 (49.5)

R202503-01 (Water)

Date Sampled
06/15/2020 07:10

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006031**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	**2.2**	0.50	ug/L	1	06/15/2020	06/15/2020 09:29	EPA 8260B	
1,2-Dichloroethane	ND	0.50	ug/L	1	06/15/2020	06/15/2020 09:29	EPA 8260B	
cis-1,2-Dichloroethene	**78**	50	ug/L	100	06/15/2020	06/15/2020 11:22	EPA 8260B	D
Methylene chloride	ND	2.0	ug/L	1	06/15/2020	06/15/2020 09:29	EPA 8260B	
Tetrachloroethene	ND	0.50	ug/L	1	06/15/2020	06/15/2020 09:29	EPA 8260B	
trans-1,2-Dichloroethene	**0.94**	0.50	ug/L	1	06/15/2020	06/15/2020 09:29	EPA 8260B	
Trichloroethene	**2400**	50	ug/L	100	06/15/2020	06/15/2020 11:22	EPA 8260B	D
Vinyl chloride	ND	0.50	ug/L	1	06/15/2020	06/15/2020 09:29	EPA 8260B	
Surrogate: Toluene-d8		*95.0 %*		*82.5-107*	*06/15/2020*	*06/15/2020 09:29*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.1 %*		*78.3-109*	*06/15/2020*	*06/15/2020 09:29*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.6 %*		*80-120*	*06/15/2020*	*06/15/2020 09:29*	*EPA 8260B*	

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Project Manager: Lynn Lutz

DPT-036 (11-12)

R202504-01 (Soil)

Date Sampled
06/15/2020 11:55

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	28	ug/kg dry	1	06/15/2020	06/15/2020 13:58	EPA 8260B	
1,1-Dichloroethene	ND	28	ug/kg dry	1	06/15/2020	06/15/2020 13:58	EPA 8260B	
cis-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/15/2020	06/15/2020 13:58	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/15/2020	06/15/2020 13:58	EPA 8260B	
Tetrachloroethene	ND	28	ug/kg dry	1	06/15/2020	06/15/2020 13:58	EPA 8260B	
trans-1,2-Dichloroethene	ND	28	ug/kg dry	1	06/15/2020	06/15/2020 13:58	EPA 8260B	
Trichloroethene	ND	28	ug/kg dry	1	06/15/2020	06/15/2020 13:58	EPA 8260B	
Vinyl chloride	ND	28	ug/kg dry	1	06/15/2020	06/15/2020 13:58	EPA 8260B	
Surrogate: Toluene-d8		*93.6 %*		*61.9-110*	*06/15/2020*	*06/15/2020 13:58*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.1 %*		*59.1-115*	*06/15/2020*	*06/15/2020 13:58*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*87.9 %*		*80-120*	*06/15/2020*	*06/15/2020 13:58*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**89.4**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-036 (15-16)
R202504-02 (Soil)

Date Sampled
06/15/2020 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 14:25	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 14:25	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 14:25	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/15/2020	06/15/2020 14:25	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 14:25	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 14:25	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 14:25	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 14:25	EPA 8260B	
Surrogate: Toluene-d8		*85.6 %*		*61.9-110*	*06/15/2020*	*06/15/2020 14:25*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*81.5 %*		*59.1-115*	*06/15/2020*	*06/15/2020 14:25*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*83.3 %*		*80-120*	*06/15/2020*	*06/15/2020 14:25*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**85.1**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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DPT-036 (18-19)
R202504-03 (Soil)

Date Sampled
06/15/2020 12:05

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	31	ug/kg dry	1	06/15/2020	06/15/2020 16:22	EPA 8260B	
1,1-Dichloroethene	ND	31	ug/kg dry	1	06/15/2020	06/15/2020 16:22	EPA 8260B	
cis-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/15/2020	06/15/2020 16:22	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/15/2020	06/15/2020 16:22	EPA 8260B	
Tetrachloroethene	ND	31	ug/kg dry	1	06/15/2020	06/15/2020 16:22	EPA 8260B	
trans-1,2-Dichloroethene	ND	31	ug/kg dry	1	06/15/2020	06/15/2020 16:22	EPA 8260B	
Trichloroethene	ND	31	ug/kg dry	1	06/15/2020	06/15/2020 16:22	EPA 8260B	
Vinyl chloride	ND	31	ug/kg dry	1	06/15/2020	06/15/2020 16:22	EPA 8260B	
Surrogate: Toluene-d8		*85.2 %*		*61.9-110*	*06/15/2020*	*06/15/2020 16:22*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*78.0 %*		*59.1-115*	*06/15/2020*	*06/15/2020 16:22*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*81.9 %*		*80-120*	*06/15/2020*	*06/15/2020 16:22*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**82.7**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-036 (21-22)

R202504-04 (Soil)

Date Sampled
06/15/2020 12:10

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 16:51	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 16:51	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 16:51	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/15/2020	06/15/2020 16:51	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 16:51	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 16:51	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 16:51	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 16:51	EPA 8260B	
Surrogate: Toluene-d8		*88.4 %*		*61.9-110*	*06/15/2020*	*06/15/2020 16:51*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*83.7 %*		*59.1-115*	*06/15/2020*	*06/15/2020 16:51*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.0 %*		*80-120*	*06/15/2020*	*06/15/2020 16:51*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**92.1**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-037 (11-12)

R202504-05 (Soil)

Date Sampled
06/15/2020 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	26	ug/kg dry	1	06/15/2020	06/15/2020 19:13	EPA 8260B	
1,1-Dichloroethene	ND	26	ug/kg dry	1	06/15/2020	06/15/2020 19:13	EPA 8260B	
cis-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/15/2020	06/15/2020 19:13	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/15/2020	06/15/2020 19:13	EPA 8260B	
Tetrachloroethene	ND	26	ug/kg dry	1	06/15/2020	06/15/2020 19:13	EPA 8260B	
trans-1,2-Dichloroethene	ND	26	ug/kg dry	1	06/15/2020	06/15/2020 19:13	EPA 8260B	
Trichloroethene	ND	26	ug/kg dry	1	06/15/2020	06/15/2020 19:13	EPA 8260B	
Vinyl chloride	ND	26	ug/kg dry	1	06/15/2020	06/15/2020 19:13	EPA 8260B	
Surrogate: Toluene-d8		*97.9 %*		*61.9-110*	*06/15/2020*	*06/15/2020 19:13*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*93.9 %*		*59.1-115*	*06/15/2020*	*06/15/2020 19:13*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*96.8 %*		*80-120*	*06/15/2020*	*06/15/2020 19:13*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**88.9**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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DPT-037 (14-15)
R202504-06 (Soil)

Date Sampled
06/15/2020 13:55

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 19:41	EPA 8260B	
1,1-Dichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 19:41	EPA 8260B	
cis-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 19:41	EPA 8260B	
Methylene chloride	ND	120	ug/kg dry	1	06/15/2020	06/15/2020 19:41	EPA 8260B	
Tetrachloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 19:41	EPA 8260B	
trans-1,2-Dichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 19:41	EPA 8260B	
Trichloroethene	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 19:41	EPA 8260B	
Vinyl chloride	ND	29	ug/kg dry	1	06/15/2020	06/15/2020 19:41	EPA 8260B	
Surrogate: Toluene-d8		*94.7 %*		*61.9-110*	*06/15/2020*	*06/15/2020 19:41*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.7 %*		*59.1-115*	*06/15/2020*	*06/15/2020 19:41*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*90.3 %*		*80-120*	*06/15/2020*	*06/15/2020 19:41*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**87.3**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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DPT-037 (18-19)

R202504-07 (Soil)

Date Sampled
06/15/2020 14:00

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	23	ug/kg dry	1	06/15/2020	06/15/2020 20:08	EPA 8260B	
1,1-Dichloroethene	ND	23	ug/kg dry	1	06/15/2020	06/15/2020 20:08	EPA 8260B	
cis-1,2-Dichloroethene	ND	23	ug/kg dry	1	06/15/2020	06/15/2020 20:08	EPA 8260B	
Methylene chloride	ND	92	ug/kg dry	1	06/15/2020	06/15/2020 20:08	EPA 8260B	
Tetrachloroethene	ND	23	ug/kg dry	1	06/15/2020	06/15/2020 20:08	EPA 8260B	
trans-1,2-Dichloroethene	ND	23	ug/kg dry	1	06/15/2020	06/15/2020 20:08	EPA 8260B	
Trichloroethene	ND	23	ug/kg dry	1	06/15/2020	06/15/2020 20:08	EPA 8260B	
Vinyl chloride	ND	23	ug/kg dry	1	06/15/2020	06/15/2020 20:08	EPA 8260B	
Surrogate: Toluene-d8		*91.5 %*		*61.9-110*	*06/15/2020*	*06/15/2020 20:08*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.8 %*		*59.1-115*	*06/15/2020*	*06/15/2020 20:08*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*89.5 %*		*80-120*	*06/15/2020*	*06/15/2020 20:08*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**92.4**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-037 (21-22)
R202504-08 (Soil)

Date Sampled
06/15/2020 14:05

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	25	ug/kg dry	1	06/15/2020	06/15/2020 21:30	EPA 8260B	
1,1-Dichloroethene	ND	25	ug/kg dry	1	06/15/2020	06/15/2020 21:30	EPA 8260B	
cis-1,2-Dichloroethene	ND	25	ug/kg dry	1	06/15/2020	06/15/2020 21:30	EPA 8260B	
Methylene chloride	ND	100	ug/kg dry	1	06/15/2020	06/15/2020 21:30	EPA 8260B	
Tetrachloroethene	ND	25	ug/kg dry	1	06/15/2020	06/15/2020 21:30	EPA 8260B	
trans-1,2-Dichloroethene	ND	25	ug/kg dry	1	06/15/2020	06/15/2020 21:30	EPA 8260B	
Trichloroethene	ND	25	ug/kg dry	1	06/15/2020	06/15/2020 21:30	EPA 8260B	
Vinyl chloride	ND	25	ug/kg dry	1	06/15/2020	06/15/2020 21:30	EPA 8260B	
Surrogate: Toluene-d8		*89.9 %*		*61.9-110*	*06/15/2020*	*06/15/2020 21:30*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.6 %*		*59.1-115*	*06/15/2020*	*06/15/2020 21:30*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*89.6 %*		*80-120*	*06/15/2020*	*06/15/2020 21:30*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**88.4**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-038 (11-12)

R202504-09 (Soil)

Date Sampled
06/15/2020 15:40

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	24	ug/kg dry	1	06/15/2020	06/15/2020 21:58	EPA 8260B	
1,1-Dichloroethene	ND	24	ug/kg dry	1	06/15/2020	06/15/2020 21:58	EPA 8260B	
cis-1,2-Dichloroethene	ND	24	ug/kg dry	1	06/15/2020	06/15/2020 21:58	EPA 8260B	
Methylene chloride	ND	97	ug/kg dry	1	06/15/2020	06/15/2020 21:58	EPA 8260B	
Tetrachloroethene	ND	24	ug/kg dry	1	06/15/2020	06/15/2020 21:58	EPA 8260B	
trans-1,2-Dichloroethene	ND	24	ug/kg dry	1	06/15/2020	06/15/2020 21:58	EPA 8260B	
Trichloroethene	ND	24	ug/kg dry	1	06/15/2020	06/15/2020 21:58	EPA 8260B	
Vinyl chloride	ND	24	ug/kg dry	1	06/15/2020	06/15/2020 21:58	EPA 8260B	
Surrogate: Toluene-d8		*88.3 %*		*61.9-110*	*06/15/2020*	*06/15/2020 21:58*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.2 %*		*59.1-115*	*06/15/2020*	*06/15/2020 21:58*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.9 %*		*80-120*	*06/15/2020*	*06/15/2020 21:58*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**91.6**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-038 (15-16)
R202504-10 (Soil)

Date Sampled
06/15/2020 15:45

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Lab #20								
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:25	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:25	EPA 8260B	
cis-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:25	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/15/2020	06/15/2020 22:25	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:25	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:25	EPA 8260B	
Trichloroethene	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:25	EPA 8260B	
Vinyl chloride	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:25	EPA 8260B	
Surrogate: Toluene-d8		*95.1 %*		*61.9-110*	*06/15/2020*	*06/15/2020 22:25*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*95.0 %*		*59.1-115*	*06/15/2020*	*06/15/2020 22:25*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*94.0 %*		*80-120*	*06/15/2020*	*06/15/2020 22:25*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**89.7**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-038 (18-19)

R202504-11 (Soil)

Date Sampled
06/15/2020 15:50

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:52	EPA 8260B	
1,1-Dichloroethene	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:52	EPA 8260B	
cis-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:52	EPA 8260B	
Methylene chloride	ND	110	ug/kg dry	1	06/15/2020	06/15/2020 22:52	EPA 8260B	
Tetrachloroethene	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:52	EPA 8260B	
trans-1,2-Dichloroethene	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:52	EPA 8260B	
Trichloroethene	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:52	EPA 8260B	
Vinyl chloride	ND	27	ug/kg dry	1	06/15/2020	06/15/2020 22:52	EPA 8260B	
Surrogate: Toluene-d8		*91.7 %*		*61.9-110*	*06/15/2020*	*06/15/2020 22:52*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*88.8 %*		*59.1-115*	*06/15/2020*	*06/15/2020 22:52*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*87.5 %*		*80-120*	*06/15/2020*	*06/15/2020 22:52*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**88.6**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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Project Number: 10097916
Project Manager: Lynn Lutz

DPT-038 (22-23)
R202504-12 (Soil)

Date Sampled
06/15/2020 15:55

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap					**Preparation Batch: R006032**			
1,1-Dichloroethane	ND	24	ug/kg dry	1	06/15/2020	06/16/2020 12:22	EPA 8260B	
1,1-Dichloroethene	ND	24	ug/kg dry	1	06/15/2020	06/16/2020 12:22	EPA 8260B	
cis-1,2-Dichloroethene	ND	24	ug/kg dry	1	06/15/2020	06/16/2020 12:22	EPA 8260B	
Methylene chloride	ND	98	ug/kg dry	1	06/15/2020	06/16/2020 12:22	EPA 8260B	
Tetrachloroethene	ND	24	ug/kg dry	1	06/15/2020	06/16/2020 12:22	EPA 8260B	
trans-1,2-Dichloroethene	ND	24	ug/kg dry	1	06/15/2020	06/16/2020 12:22	EPA 8260B	
Trichloroethene	ND	24	ug/kg dry	1	06/15/2020	06/16/2020 12:22	EPA 8260B	
Vinyl chloride	ND	24	ug/kg dry	1	06/15/2020	06/16/2020 12:22	EPA 8260B	
Surrogate: Toluene-d8		*115 %*	*61.9-110*		*06/15/2020*	*06/16/2020 12:22*	*EPA 8260B*	*S*
Surrogate: 4-Bromofluorobenzene		*108 %*	*59.1-115*		*06/15/2020*	*06/16/2020 12:22*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*106 %*	*80-120*		*06/15/2020*	*06/16/2020 12:22*	*EPA 8260B*	
Classical Chemistry Parameters					**Preparation Batch: R006033**			
% Solids	**88.0**	0.00	% by Weight	1	06/15/2020	06/16/2020 08:00	SM 2540B	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-035 (33)

R202505-01 (Water)

Date Sampled
06/16/2020 06:50

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006034**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	2.5	ug/L	5	06/16/2020	06/16/2020 11:54	EPA 8260B	
1,2-Dichloroethane	ND	2.5	ug/L	5	06/16/2020	06/16/2020 11:54	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.5	ug/L	5	06/16/2020	06/16/2020 11:54	EPA 8260B	
Methylene chloride	ND	10	ug/L	5	06/16/2020	06/16/2020 11:54	EPA 8260B	
Tetrachloroethene	ND	2.5	ug/L	5	06/16/2020	06/16/2020 11:54	EPA 8260B	
trans-1,2-Dichloroethene	ND	2.5	ug/L	5	06/16/2020	06/16/2020 11:54	EPA 8260B	
Trichloroethene	**59**	2.5	ug/L	5	06/16/2020	06/16/2020 11:54	EPA 8260B	D
Vinyl chloride	ND	2.5	ug/L	5	06/16/2020	06/16/2020 11:54	EPA 8260B	
Surrogate: Toluene-d8		*92.1 %*		*82.5-107*	*06/16/2020*	*06/16/2020 11:54*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*85.3 %*		*78.3-109*	*06/16/2020*	*06/16/2020 11:54*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*89.4 %*		*80-120*	*06/16/2020*	*06/16/2020 11:54*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

DPT-037 (33)

R202505-02 (Water)

Date Sampled
06/16/2020 07:20

Pace Analytical - Lab #20

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: R006034**

Analyte	Result	Reporting Limit	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1-Dichloroethene	ND	2.5	ug/L	5	06/16/2020	06/16/2020 12:50	EPA 8260B	
1,2-Dichloroethane	ND	2.5	ug/L	5	06/16/2020	06/16/2020 12:50	EPA 8260B	
cis-1,2-Dichloroethene	ND	2.5	ug/L	5	06/16/2020	06/16/2020 12:50	EPA 8260B	
Methylene chloride	ND	10	ug/L	5	06/16/2020	06/16/2020 12:50	EPA 8260B	
Tetrachloroethene	ND	2.5	ug/L	5	06/16/2020	06/16/2020 12:50	EPA 8260B	
trans-1,2-Dichloroethene	ND	2.5	ug/L	5	06/16/2020	06/16/2020 12:50	EPA 8260B	
Trichloroethene	ND	2.5	ug/L	5	06/16/2020	06/16/2020 12:50	EPA 8260B	
Vinyl chloride	ND	2.5	ug/L	5	06/16/2020	06/16/2020 12:50	EPA 8260B	
Surrogate: Toluene-d8		*94.0 %*		*82.5-107*	*06/16/2020*	*06/16/2020 12:50*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.4 %*		*78.3-109*	*06/16/2020*	*06/16/2020 12:50*	*EPA 8260B*	
Surrogate: 1,2-Dichlorobenzene-d4		*88.0 %*		*80-120*	*06/16/2020*	*06/16/2020 12:50*	*EPA 8260B*	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006001 - EPA 5030B										
Blank (R006001-BLK1)				Prepared: 06/02/2020 Analyzed: 06/02/2020 19:08						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*501.0*		*99.6*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*501.0*		*89.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*517*		*ug/kg wet*	*501.0*		*103*	*80-120*			
LCS (R006001-BS1)				Prepared: 06/02/2020 Analyzed: 06/02/2020 14:34						
1,1-Dichloroethane	247	25	ug/kg wet	250.0		98.8	73-123			
1,1-Dichloroethene	245	25	ug/kg wet	250.0		97.8	56.6-131			
cis-1,2-Dichloroethene	249	25	ug/kg wet	250.0		99.4	76-115			
Methylene chloride	343	100	ug/kg wet	250.0		137	62.2-132			
Tetrachloroethene	249	25	ug/kg wet	250.0		99.6	73.7-114			
trans-1,2-Dichloroethene	235	25	ug/kg wet	250.0		93.8	73.5-116			
Trichloroethene	246	25	ug/kg wet	250.0		98.2	79.5-110			
Vinyl chloride	207	25	ug/kg wet	250.0		82.6	49.9-123			
Surrogate: Toluene-d8	*251*		*ug/kg wet*	*250.0*		*100*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*235*		*ug/kg wet*	*250.0*		*93.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*252*		*ug/kg wet*	*250.0*		*101*	*80-120*			
Matrix Spike (R006001-MS1)	**Source: R202305-04**			Prepared: 06/02/2020 Analyzed: 06/03/2020 03:52						
1,1-Dichloroethane	294	29	ug/kg dry	286.1	ND	103	64.5-113			
1,1-Dichloroethene	268	29	ug/kg dry	286.1	ND	93.8	42-122			
cis-1,2-Dichloroethene	304	29	ug/kg dry	286.1	ND	106	65.9-108			
Methylene chloride	320	110	ug/kg dry	286.1	ND	112	56.7-120			
Tetrachloroethene	291	29	ug/kg dry	286.1	ND	102	54-121			
trans-1,2-Dichloroethene	279	29	ug/kg dry	286.1	ND	97.4	61.1-110			
Trichloroethene	299	29	ug/kg dry	286.1	ND	104	63.1-112			
Vinyl chloride	246	29	ug/kg dry	286.1	ND	86.0	30.4-112			
Surrogate: Toluene-d8	*310*		*ug/kg dry*	*286.1*		*108*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*286*		*ug/kg dry*	*286.1*		*99.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*326*		*ug/kg dry*	*286.1*		*114*	*80-120*			
Matrix Spike Dup (R006001-MSD1)	**Source: R202305-04**			Prepared: 06/02/2020 Analyzed: 06/03/2020 04:20						
1,1-Dichloroethane	282	28	ug/kg dry	280.7	ND	100	64.5-113	4.24	20	
1,1-Dichloroethene	262	28	ug/kg dry	280.7	ND	93.2	42-122	2.52	20	
cis-1,2-Dichloroethene	282	28	ug/kg dry	280.7	ND	101	65.9-108	7.49	20	
Methylene chloride	303	110	ug/kg dry	280.7	ND	108	56.7-120	5.34	20	
Tetrachloroethene	270	28	ug/kg dry	280.7	ND	96.0	54-121	7.55	20	
trans-1,2-Dichloroethene	254	28	ug/kg dry	280.7	ND	90.6	61.1-110	9.11	20	
Trichloroethene	278	28	ug/kg dry	280.7	ND	99.2	63.1-112	6.99	20	
Vinyl chloride	233	28	ug/kg dry	280.7	ND	83.0	30.4-112	5.43	20	

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006001 - EPA 5030B										
Matrix Spike Dup (R006001-MSD1)	**Source: R202305-04**			Prepared: 06/02/2020 Analyzed: 06/03/2020 04:20						
Surrogate: Toluene-d8	*281*		*ug/kg dry*	*280.7*		*100*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*268*		*ug/kg dry*	*280.7*		*95.6*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*284*		*ug/kg dry*	*280.7*		*101*	*80-120*			
Batch R006002 - EPA 5030B										
Blank (R006002-BLK1)				Prepared: 06/02/2020 Analyzed: 06/03/2020 12:19						
1,1-Dichloroethene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
Methylene chloride	2.0	2.0	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Surrogate: Toluene-d8	*9.69*		*ug/L*	*10.00*		*96.9*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*8.18*		*ug/L*	*10.00*		*81.8*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*9.44*		*ug/L*	*10.00*		*94.4*	*80-120*			
LCS (R006002-BS1)				Prepared: 06/02/2020 Analyzed: 06/03/2020 09:55						
1,1-Dichloroethene	4.86	0.50	ug/L	5.000		97.2	60.6-148			
1,2-Dichloroethane	4.78	0.50	ug/L	5.000		95.6	78.9-134			
cis-1,2-Dichloroethene	4.95	0.50	ug/L	5.000		99.0	86.4-119			
Methylene chloride	5.37	2.0	ug/L	5.000		107	74-136			B
Tetrachloroethene	5.11	0.50	ug/L	5.000		102	83.6-115			
trans-1,2-Dichloroethene	4.89	0.50	ug/L	5.000		97.8	80.8-125			
Trichloroethene	4.84	0.50	ug/L	5.000		96.8	80-120			
Vinyl chloride	5.16	0.50	ug/L	5.000		103	66.2-141			
Surrogate: Toluene-d8	*4.89*		*ug/L*	*5.000*		*97.8*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.36*		*ug/L*	*5.000*		*87.2*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.02*		*ug/L*	*5.000*		*100*	*80-120*			
Matrix Spike (R006002-MS1)	**Source: R202307-01**			Prepared: 06/02/2020 Analyzed: 06/04/2020 05:35						
1,1-Dichloroethene	4.88	0.50	ug/L	5.000	ND	97.6	35.8-173			
1,2-Dichloroethane	5.05	0.50	ug/L	5.000	ND	101	71.8-143			
cis-1,2-Dichloroethene	5.16	0.50	ug/L	5.000	ND	103	81.7-124			
Methylene chloride	6.24	2.0	ug/L	5.000	ND	125	64.1-146			B
Tetrachloroethene	4.72	0.50	ug/L	5.000	ND	94.4	85.2-114			
trans-1,2-Dichloroethene	4.64	0.50	ug/L	5.000	ND	92.8	81.8-123			
Trichloroethene	5.61	0.50	ug/L	5.000	ND	112	80-120			
Vinyl chloride	6.14	0.50	ug/L	5.000	ND	123	64-147			
Surrogate: Toluene-d8	*5.00*		*ug/L*	*5.000*		*100*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.72*		*ug/L*	*5.000*		*94.4*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.31*		*ug/L*	*5.000*		*106*	*80-120*			

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006002 - EPA 5030B										
Matrix Spike Dup (R006002-MSD1)	**Source: R202307-01**			Prepared: 06/02/2020 Analyzed: 06/04/2020 06:02						
1,1-Dichloroethene	4.70	0.50	ug/L	5.000	ND	94.0	35.8-173	3.76	20	
1,2-Dichloroethane	5.17	0.50	ug/L	5.000	ND	103	71.8-143	2.35	20	
cis-1,2-Dichloroethene	5.16	0.50	ug/L	5.000	ND	103	81.7-124	0.00	20	
Methylene chloride	5.79	2.0	ug/L	5.000	ND	116	64.1-146	7.48	20	B
Tetrachloroethene	4.92	0.50	ug/L	5.000	ND	98.4	85.2-114	4.15	20	
trans-1,2-Dichloroethene	4.50	0.50	ug/L	5.000	ND	90.0	81.8-123	3.06	20	
Trichloroethene	5.32	0.50	ug/L	5.000	ND	106	80-120	5.31	20	
Vinyl chloride	6.06	0.50	ug/L	5.000	ND	121	64-147	1.31	20	
Surrogate: Toluene-d8	*4.92*		*ug/L*	*5.000*		*98.4*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.70*		*ug/L*	*5.000*		*94.0*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.29*		*ug/L*	*5.000*		*106*	*80-120*			
Batch R006004 - EPA 5030B										
Blank (R006004-BLK1)				Prepared: 06/03/2020 Analyzed: 06/05/2020 09:58						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*500.5*		*101*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*500.5*		*88.3*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*516*		*ug/kg wet*	*500.5*		*103*	*80-120*			
LCS (R006004-BS1)				Prepared: 06/03/2020 Analyzed: 06/04/2020 04:40						
1,1-Dichloroethane	252	25	ug/kg wet	249.5		101	73-123			
1,1-Dichloroethene	222	25	ug/kg wet	249.5		88.8	56.6-131			
cis-1,2-Dichloroethene	250	25	ug/kg wet	249.5		100	76-115			
Methylene chloride	276	100	ug/kg wet	249.5		111	62.2-132			
Tetrachloroethene	235	25	ug/kg wet	249.5		94.0	73.7-114			
trans-1,2-Dichloroethene	223	25	ug/kg wet	249.5		89.4	73.5-116			
Trichloroethene	253	25	ug/kg wet	249.5		102	79.5-110			
Vinyl chloride	245	25	ug/kg wet	249.5		98.2	49.9-123			
Surrogate: Toluene-d8	*244*		*ug/kg wet*	*249.5*		*97.6*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*233*		*ug/kg wet*	*249.5*		*93.4*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*264*		*ug/kg wet*	*249.5*		*106*	*80-120*			
LCS Dup (R006004-BSD1)				Prepared: 06/03/2020 Analyzed: 06/04/2020 05:07						
1,1-Dichloroethane	259	25	ug/kg wet	250.3		104	73-123	2.84	20	
1,1-Dichloroethene	257	25	ug/kg wet	250.3		103	56.6-131	14.9	20	
cis-1,2-Dichloroethene	266	25	ug/kg wet	250.3		106	76-115	6.31	20	
Methylene chloride	296	100	ug/kg wet	250.3		118	62.2-132	6.94	20	
Tetrachloroethene	248	25	ug/kg wet	250.3		99.2	73.7-114	5.68	20	
trans-1,2-Dichloroethene	241	25	ug/kg wet	250.3		96.4	73.5-116	7.83	20	
Trichloroethene	269	25	ug/kg wet	250.3		108	79.5-110	6.04	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006004 - EPA 5030B										
LCS Dup (R006004-BSD1)				Prepared: 06/03/2020 Analyzed: 06/04/2020 05:07						
Vinyl chloride	268	25	ug/kg wet	250.3		107	49.9-123	9.06	20	
Surrogate: Toluene-d8	*265*		*ug/kg wet*	*250.3*		*106*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*249*		*ug/kg wet*	*250.3*		*99.4*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*289*		*ug/kg wet*	*250.3*		*116*	*80-120*			
Batch R006006 - EPA 5030B										
Blank (R006006-BLK1)				Prepared: 06/04/2020 Analyzed: 06/04/2020 16:48						
1,1-Dichloroethene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Surrogate: Toluene-d8	*9.14*		*ug/L*	*10.00*		*91.4*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*7.88*		*ug/L*	*10.00*		*78.8*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*9.44*		*ug/L*	*10.00*		*94.4*	*80-120*			
LCS (R006006-BS1)				Prepared: 06/04/2020 Analyzed: 06/05/2020 02:08						
1,1-Dichloroethene	4.66	0.50	ug/L	5.000		93.2	60.6-148			
1,2-Dichloroethane	5.37	0.50	ug/L	5.000		107	78.9-134			
cis-1,2-Dichloroethene	5.25	0.50	ug/L	5.000		105	86.4-119			
Methylene chloride	5.79	2.0	ug/L	5.000		116	74-136			
Tetrachloroethene	5.07	0.50	ug/L	5.000		101	83.6-115			
trans-1,2-Dichloroethene	4.48	0.50	ug/L	5.000		89.6	80.8-125			
Trichloroethene	5.08	0.50	ug/L	5.000		102	80-120			
Vinyl chloride	6.19	0.50	ug/L	5.000		124	66.2-141			
Surrogate: Toluene-d8	*5.04*		*ug/L*	*5.000*		*101*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.81*		*ug/L*	*5.000*		*96.2*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.38*		*ug/L*	*5.000*		*108*	*80-120*			
Matrix Spike (R006006-MS1)		**Source: R202308-01**		Prepared: 06/04/2020 Analyzed: 06/05/2020 01:13						
1,1-Dichloroethene	4.69	0.50	ug/L	5.000	ND	93.8	35.8-173			
1,2-Dichloroethane	5.04	0.50	ug/L	5.000	ND	101	71.8-143			
cis-1,2-Dichloroethene	5.16	0.50	ug/L	5.000	ND	103	81.7-124			
Methylene chloride	5.63	2.0	ug/L	5.000	ND	113	64.1-146			
Tetrachloroethene	5.00	0.50	ug/L	5.000	ND	100	85.2-114			
trans-1,2-Dichloroethene	4.33	0.50	ug/L	5.000	ND	86.6	81.8-123			
Trichloroethene	6.41	0.50	ug/L	5.000	1.38	101	80-120			
Vinyl chloride	6.66	0.50	ug/L	5.000	ND	133	64-147			
Surrogate: Toluene-d8	*4.96*		*ug/L*	*5.000*		*99.2*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.76*		*ug/L*	*5.000*		*95.2*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.52*		*ug/L*	*5.000*		*110*	*80-120*			

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Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006006 - EPA 5030B										
Matrix Spike Dup (R006006-MSD1)		**Source: R202308-01**		Prepared: 06/04/2020 Analyzed: 06/05/2020 01:40						
1,1-Dichloroethene	5.13	0.50	ug/L	5.000	ND	103	35.8-173	8.96	20	
1,2-Dichloroethane	5.22	0.50	ug/L	5.000	ND	104	71.8-143	3.51	20	
cis-1,2-Dichloroethene	5.10	0.50	ug/L	5.000	ND	102	81.7-124	1.17	20	
Methylene chloride	5.77	2.0	ug/L	5.000	ND	115	64.1-146	2.46	20	
Tetrachloroethene	4.91	0.50	ug/L	5.000	ND	98.2	85.2-114	1.82	20	
trans-1,2-Dichloroethene	4.72	0.50	ug/L	5.000	ND	94.4	81.8-123	8.62	20	
Trichloroethene	6.12	0.50	ug/L	5.000	1.38	94.8	80-120	4.63	20	
Vinyl chloride	6.54	0.50	ug/L	5.000	ND	131	64-147	1.82	20	
Surrogate: Toluene-d8	*5.09*		*ug/L*	*5.000*		*102*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.55*		*ug/L*	*5.000*		*91.0*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.14*		*ug/L*	*5.000*		*103*	*80-120*			
Batch R006007 - EPA 5030B										
Blank (R006007-BLK1)				Prepared: 06/04/2020 Analyzed: 06/05/2020 15:44						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*499.0*		*97.4*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*499.0*		*83.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*479*		*ug/kg wet*	*499.0*		*96.0*	*80-120*			
LCS (R006007-BS1)				Prepared: 06/04/2020 Analyzed: 06/05/2020 19:44						
1,1-Dichloroethane	381	25	ug/kg wet	400.0		95.3	73-123			
1,1-Dichloroethene	357	25	ug/kg wet	400.0		89.1	56.6-131			
cis-1,2-Dichloroethene	386	25	ug/kg wet	400.0		96.4	76-115			
Methylene chloride	448	100	ug/kg wet	400.0		112	62.2-132			
Tetrachloroethene	382	25	ug/kg wet	400.0		95.4	73.7-114			
trans-1,2-Dichloroethene	350	25	ug/kg wet	400.0		87.4	73.5-116			
Trichloroethene	377	25	ug/kg wet	400.0		94.3	79.5-110			
Vinyl chloride	373	25	ug/kg wet	400.0		93.1	49.9-123			
Surrogate: Toluene-d8	*369*		*ug/kg wet*	*400.0*		*92.1*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*359*		*ug/kg wet*	*400.0*		*89.6*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*414*		*ug/kg wet*	*400.0*		*103*	*80-120*			
Matrix Spike (R006007-MS1)		**Source: R202309-05**		Prepared: 06/04/2020 Analyzed: 06/05/2020 18:48						
1,1-Dichloroethane	227	26	ug/kg dry	261.6	ND	86.8	64.5-113			
1,1-Dichloroethene	218	26	ug/kg dry	261.6	ND	83.2	42-122			
cis-1,2-Dichloroethene	236	26	ug/kg dry	261.6	ND	90.4	65.9-108			
Methylene chloride	254	100	ug/kg dry	261.6	ND	97.2	56.7-120			
Tetrachloroethene	244	26	ug/kg dry	261.6	ND	93.4	54-121			
trans-1,2-Dichloroethene	217	26	ug/kg dry	261.6	ND	82.8	61.1-110			
Trichloroethene	247	26	ug/kg dry	261.6	6.84	91.8	63.1-112			

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Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006007 - EPA 5030B										
Matrix Spike (R006007-MS1)	**Source: R202309-05**			Prepared: 06/04/2020 Analyzed: 06/05/2020 18:48						
Vinyl chloride	199	26	ug/kg dry	261.6	ND	76.0	30.4-112			
Surrogate: Toluene-d8	*235*		*ug/kg dry*	*261.6*		*90.0*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*223*		*ug/kg dry*	*261.6*		*85.2*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*252*		*ug/kg dry*	*261.6*		*96.4*	*80-120*			
Matrix Spike Dup (R006007-MSD1)	**Source: R202309-05**			Prepared: 06/04/2020 Analyzed: 06/05/2020 19:16						
1,1-Dichloroethane	229	27	ug/kg dry	272.6	ND	84.0	64.5-113	0.863	20	
1,1-Dichloroethene	195	27	ug/kg dry	272.6	ND	71.6	42-122	10.9	20	
cis-1,2-Dichloroethene	232	27	ug/kg dry	272.6	ND	85.2	65.9-108	1.78	20	
Methylene chloride	249	110	ug/kg dry	272.6	ND	91.4	56.7-120	2.01	20	
Tetrachloroethene	231	27	ug/kg dry	272.6	ND	84.6	54-121	5.75	20	
trans-1,2-Dichloroethene	207	27	ug/kg dry	272.6	ND	75.8	61.1-110	4.69	20	
Trichloroethene	239	27	ug/kg dry	272.6	6.84	85.3	63.1-112	3.11	20	
Vinyl chloride	194	27	ug/kg dry	272.6	ND	71.0	30.4-112	2.66	20	
Surrogate: Toluene-d8	*230*		*ug/kg dry*	*272.6*		*84.4*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*213*		*ug/kg dry*	*272.6*		*78.0*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*249*		*ug/kg dry*	*272.6*		*91.2*	*80-120*			
Batch R006009 - EPA 5030B										
Blank (R006009-BLK1)				Prepared: 06/05/2020 Analyzed: 06/05/2020 21:36						
1,1-Dichloroethene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Surrogate: Toluene-d8	*9.43*		*ug/L*	*10.00*		*94.3*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*8.39*		*ug/L*	*10.00*		*83.9*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*9.75*		*ug/L*	*10.00*		*97.5*	*80-120*			
LCS (R006009-BS1)				Prepared: 06/05/2020 Analyzed: 06/06/2020 07:11						
1,1-Dichloroethene	4.83	0.50	ug/L	5.000		96.6	60.6-148			
1,2-Dichloroethane	4.94	0.50	ug/L	5.000		98.8	78.9-134			
cis-1,2-Dichloroethene	5.18	0.50	ug/L	5.000		104	86.4-119			
Methylene chloride	5.75	2.0	ug/L	5.000		115	74-136			
Tetrachloroethene	4.81	0.50	ug/L	5.000		96.2	83.6-115			
trans-1,2-Dichloroethene	4.63	0.50	ug/L	5.000		92.6	80.8-125			
Trichloroethene	4.80	0.50	ug/L	5.000		96.0	80-120			
Vinyl chloride	6.25	0.50	ug/L	5.000		125	66.2-141			
Surrogate: Toluene-d8	*4.85*		*ug/L*	*5.000*		*97.0*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.60*		*ug/L*	*5.000*		*92.0*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.11*		*ug/L*	*5.000*		*102*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006009 - EPA 5030B										
Matrix Spike (R006009-MS1)	**Source: R202311-01**			Prepared: 06/05/2020 Analyzed: 06/06/2020 06:16						
1,1-Dichloroethene	940	100	ug/L	1000	ND	94.0	35.8-173			D
1,2-Dichloroethane	1020	100	ug/L	1000	ND	102	71.8-143			D
cis-1,2-Dichloroethene	1400	100	ug/L	1000	414	98.8	81.7-124			D
Methylene chloride	1130	400	ug/L	1000	ND	113	64.1-146			D
Tetrachloroethene	966	100	ug/L	1000	ND	96.6	85.2-114			D
trans-1,2-Dichloroethene	886	100	ug/L	1000	ND	88.6	81.8-123			D
Trichloroethene	6120	100	ug/L	1000	5150	96.8	80-120			D
Vinyl chloride	1190	100	ug/L	1000	ND	119	64-147			D
Surrogate: Toluene-d8	*966*		*ug/L*	*1000*		*96.6*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*920*		*ug/L*	*1000*		*92.0*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*1050*		*ug/L*	*1000*		*105*	*80-120*			
Matrix Spike Dup (R006009-MSD1)	**Source: R202311-01**			Prepared: 06/05/2020 Analyzed: 06/06/2020 06:43						
1,1-Dichloroethene	942	100	ug/L	1000	ND	94.2	35.8-173	0.213	20	D
1,2-Dichloroethane	1060	100	ug/L	1000	ND	106	71.8-143	4.04	20	D
cis-1,2-Dichloroethene	1470	100	ug/L	1000	414	106	81.7-124	4.74	20	D
Methylene chloride	1120	400	ug/L	1000	ND	112	64.1-146	1.07	20	D
Tetrachloroethene	972	100	ug/L	1000	ND	97.2	85.2-114	0.619	20	D
trans-1,2-Dichloroethene	948	100	ug/L	1000	ND	94.8	81.8-123	6.76	20	D
Trichloroethene	6300	100	ug/L	1000	5150	115	80-120	2.93	20	D
Vinyl chloride	1230	100	ug/L	1000	ND	123	64-147	3.47	20	D
Surrogate: Toluene-d8	*988*		*ug/L*	*1000*		*98.8*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*938*		*ug/L*	*1000*		*93.8*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*1100*		*ug/L*	*1000*		*110*	*80-120*			
Batch R006010 - EPA 5030B										
Blank (R006010-BLK1)				Prepared: 06/05/2020 Analyzed: 06/06/2020 03:04						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*500.5*		*98.7*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*500.5*		*89.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*515*		*ug/kg wet*	*500.5*		*103*	*80-120*			
LCS (R006010-BS1)				Prepared: 06/05/2020 Analyzed: 06/06/2020 03:59						
1,1-Dichloroethane	221	25	ug/kg wet	249.8		88.4	73-123			
1,1-Dichloroethene	205	25	ug/kg wet	249.8		82.2	56.6-131			
cis-1,2-Dichloroethene	226	25	ug/kg wet	249.8		90.6	76-115			
Methylene chloride	245	100	ug/kg wet	249.8		98.2	62.2-132			
Tetrachloroethene	198	25	ug/kg wet	249.8		79.2	73.7-114			
trans-1,2-Dichloroethene	200	25	ug/kg wet	249.8		80.0	73.5-116			
Trichloroethene	224	25	ug/kg wet	249.8		89.6	79.5-110			

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006010 - EPA 5030B										
LCS (R006010-BS1)				Prepared: 06/05/2020 Analyzed: 06/06/2020 03:59						
Vinyl chloride	229	25	ug/kg wet	249.8		91.6	49.9-123			
Surrogate: Toluene-d8	*220*		*ug/kg wet*	*249.8*		*88.0*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*215*		*ug/kg wet*	*249.8*		*86.2*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*241*		*ug/kg wet*	*249.8*		*96.4*	*80-120*			
Matrix Spike (R006010-MS1)	**Source: R202310-02**			Prepared: 06/05/2020 Analyzed: 06/06/2020 04:26						
1,1-Dichloroethane	271	28	ug/kg dry	284.6	ND	95.4	64.5-113			
1,1-Dichloroethene	245	28	ug/kg dry	284.6	ND	86.0	42-122			
cis-1,2-Dichloroethene	262	28	ug/kg dry	284.6	ND	92.2	65.9-108			
Methylene chloride	286	110	ug/kg dry	284.6	ND	101	56.7-120			
Tetrachloroethene	252	28	ug/kg dry	284.6	ND	88.4	54-121			
trans-1,2-Dichloroethene	244	28	ug/kg dry	284.6	ND	85.6	61.1-110			
Trichloroethene	261	28	ug/kg dry	284.6	ND	91.8	63.1-112			
Vinyl chloride	265	28	ug/kg dry	284.6	ND	93.0	30.4-112			
Surrogate: Toluene-d8	*263*		*ug/kg dry*	*284.6*		*92.6*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*244*		*ug/kg dry*	*284.6*		*85.6*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*282*		*ug/kg dry*	*284.6*		*99.2*	*80-120*			
Matrix Spike Dup (R006010-MSD1)	**Source: R202310-02**			Prepared: 06/05/2020 Analyzed: 06/06/2020 04:54						
1,1-Dichloroethane	289	31	ug/kg dry	312.4	ND	92.4	64.5-113	6.13	20	
1,1-Dichloroethene	261	31	ug/kg dry	312.4	ND	83.6	42-122	6.49	20	
cis-1,2-Dichloroethene	297	31	ug/kg dry	312.4	ND	95.0	65.9-108	12.3	20	
Methylene chloride	321	120	ug/kg dry	312.4	ND	103	56.7-120	11.5	20	
Tetrachloroethene	267	31	ug/kg dry	312.4	ND	85.4	54-121	5.87	20	
trans-1,2-Dichloroethene	264	31	ug/kg dry	312.4	ND	84.4	61.1-110	7.91	20	
Trichloroethene	285	31	ug/kg dry	312.4	ND	91.2	63.1-112	8.66	20	
Vinyl chloride	283	31	ug/kg dry	312.4	ND	90.6	30.4-112	6.71	20	
Surrogate: Toluene-d8	*289*		*ug/kg dry*	*312.4*		*92.4*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*277*		*ug/kg dry*	*312.4*		*88.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*307*		*ug/kg dry*	*312.4*		*98.2*	*80-120*			

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006012 - EPA 5030B										
Blank (R006012-BLK1)				Prepared: 06/08/2020 Analyzed: 06/08/2020 16:06						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*500.5*		*79.4*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*500.5*		*69.5*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*408*		*ug/kg wet*	*500.5*		*81.6*	*80-120*			
LCS (R006012-BS1)				Prepared: 06/08/2020 Analyzed: 06/09/2020 13:30						
1,1-Dichloroethane	249	25	ug/kg wet	249.8		99.8	73-123			
1,1-Dichloroethene	215	25	ug/kg wet	249.8		86.2	56.6-131			
cis-1,2-Dichloroethene	245	25	ug/kg wet	249.8		98.0	76-115			
Methylene chloride	291	100	ug/kg wet	249.8		116	62.2-132			
Tetrachloroethene	232	25	ug/kg wet	249.8		92.8	73.7-114			
trans-1,2-Dichloroethene	217	25	ug/kg wet	249.8		87.0	73.5-116			
Trichloroethene	227	25	ug/kg wet	249.8		90.8	79.5-110			
Vinyl chloride	221	25	ug/kg wet	249.8		88.4	49.9-123			
Surrogate: Toluene-d8	*239*		*ug/kg wet*	*249.8*		*95.8*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*243*		*ug/kg wet*	*249.8*		*97.2*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*280*		*ug/kg wet*	*249.8*		*112*	*80-120*			
Matrix Spike (R006012-MS1)	**Source: R202403-01**			Prepared: 06/08/2020 Analyzed: 06/09/2020 15:28						
1,1-Dichloroethane	255	27	ug/kg dry	267.7	ND	95.4	64.5-113			
1,1-Dichloroethene	228	27	ug/kg dry	267.7	ND	85.0	42-122			
cis-1,2-Dichloroethene	255	27	ug/kg dry	267.7	ND	95.2	65.9-108			
Methylene chloride	270	110	ug/kg dry	267.7	ND	101	56.7-120			
Tetrachloroethene	239	27	ug/kg dry	267.7	ND	89.4	54-121			
trans-1,2-Dichloroethene	221	27	ug/kg dry	267.7	ND	82.4	61.1-110			
Trichloroethene	243	27	ug/kg dry	267.7	ND	90.6	63.1-112			
Vinyl chloride	233	27	ug/kg dry	267.7	ND	87.2	30.4-112			
Surrogate: Toluene-d8	*258*		*ug/kg dry*	*267.7*		*96.4*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*237*		*ug/kg dry*	*267.7*		*88.4*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*263*		*ug/kg dry*	*267.7*		*98.4*	*80-120*			
Matrix Spike Dup (R006012-MSD1)	**Source: R202403-01**			Prepared: 06/08/2020 Analyzed: 06/09/2020 16:01						
1,1-Dichloroethane	263	29	ug/kg dry	286.3	ND	91.8	64.5-113	2.87	20	
1,1-Dichloroethene	238	29	ug/kg dry	286.3	ND	83.2	42-122	4.57	20	
cis-1,2-Dichloroethene	248	29	ug/kg dry	286.3	ND	86.6	65.9-108	2.75	20	
Methylene chloride	294	110	ug/kg dry	286.3	ND	103	56.7-120	8.28	20	
Tetrachloroethene	246	29	ug/kg dry	286.3	ND	85.8	54-121	2.60	20	
trans-1,2-Dichloroethene	233	29	ug/kg dry	286.3	ND	81.2	61.1-110	5.25	20	
Trichloroethene	238	29	ug/kg dry	286.3	ND	83.2	63.1-112	1.81	20	
Vinyl chloride	219	29	ug/kg dry	286.3	ND	76.6	30.4-112	6.24	20	
Surrogate: Toluene-d8	*257*		*ug/kg dry*	*286.3*		*89.6*	*61.9-110*			

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006012 - EPA 5030B										
Matrix Spike Dup (R006012-MSD1)	**Source: R202403-01**			Prepared: 06/08/2020 Analyzed: 06/09/2020 16:01						
Surrogate: 4-Bromofluorobenzene	*239*		*ug/kg dry*	*286.3*		*83.4*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*289*		*ug/kg dry*	*286.3*		*101*	*80-120*			
Batch R006013 - EPA 5030B										
Blank (R006013-BLK1)				Prepared: 06/08/2020 Analyzed: 06/08/2020 10:21						
1,1-Dichloroethene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Surrogate: Toluene-d8	*9.45*		*ug/L*	*10.00*		*94.5*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*8.10*		*ug/L*	*10.00*		*81.0*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*9.54*		*ug/L*	*10.00*		*95.4*	*80-120*			
LCS (R006013-BS1)				Prepared: 06/08/2020 Analyzed: 06/09/2020 13:59						
1,1-Dichloroethene	4.64	0.50	ug/L	5.000		92.8	60.6-148			
1,2-Dichloroethane	5.29	0.50	ug/L	5.000		106	78.9-134			
cis-1,2-Dichloroethene	4.94	0.50	ug/L	5.000		98.8	86.4-119			
Methylene chloride	5.56	2.0	ug/L	5.000		111	74-136			
Tetrachloroethene	4.79	0.50	ug/L	5.000		95.8	83.6-115			
trans-1,2-Dichloroethene	4.38	0.50	ug/L	5.000		87.6	80.8-125			
Trichloroethene	4.78	0.50	ug/L	5.000		95.6	80-120			
Vinyl chloride	5.96	0.50	ug/L	5.000		119	66.2-141			
Surrogate: Toluene-d8	*4.94*		*ug/L*	*5.000*		*98.8*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.47*		*ug/L*	*5.000*		*89.4*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.35*		*ug/L*	*5.000*		*107*	*80-120*			
Matrix Spike (R006013-MS1)	**Source: R202402-01**			Prepared: 06/08/2020 Analyzed: 06/09/2020 14:28						
1,1-Dichloroethene	9100	1000	ug/L	10000	ND	91.0	35.8-173			D
1,2-Dichloroethane	10600	1000	ug/L	10000	ND	106	71.8-143			D
cis-1,2-Dichloroethene	11900	1000	ug/L	10000	1510	104	81.7-124			D
Methylene chloride	10800	4000	ug/L	10000	ND	108	64.1-146			D
Tetrachloroethene	9180	1000	ug/L	10000	ND	91.8	85.2-114			D
trans-1,2-Dichloroethene	8500	1000	ug/L	10000	ND	85.0	81.8-123			D
Trichloroethene	77800	1000	ug/L	10000	66300	115	80-120			D
Vinyl chloride	12200	1000	ug/L	10000	ND	122	64-147			D
Surrogate: Toluene-d8	*9880*		*ug/L*	*10000*		*98.8*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*8620*		*ug/L*	*10000*		*86.2*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*10800*		*ug/L*	*10000*		*108*	*80-120*			

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006013 - EPA 5030B										
Matrix Spike Dup (R006013-MSD1)		**Source: R202402-01**		Prepared: 06/08/2020 Analyzed: 06/09/2020 14:58						
1,1-Dichloroethene	9440	1000	ug/L	10000	ND	94.4	35.8-173	3.67	20	D
1,2-Dichloroethane	10700	1000	ug/L	10000	ND	107	71.8-143	0.941	20	D
cis-1,2-Dichloroethene	11900	1000	ug/L	10000	1510	103	81.7-124	0.337	20	D
Methylene chloride	11100	4000	ug/L	10000	ND	111	64.1-146	2.93	20	D
Tetrachloroethene	9560	1000	ug/L	10000	ND	95.6	85.2-114	4.06	20	D
trans-1,2-Dichloroethene	8620	1000	ug/L	10000	ND	86.2	81.8-123	1.40	20	D
Trichloroethene	76300	1000	ug/L	10000	66300	100	80-120	1.95	20	D
Vinyl chloride	12500	1000	ug/L	10000	ND	125	64-147	1.94	20	D
Surrogate: Toluene-d8	*9740*		*ug/L*	*10000*		*97.4*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*9220*		*ug/L*	*10000*		*92.2*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*10900*		*ug/L*	*10000*		*109*	*80-120*			
Batch R006015 - EPA 5030B										
Blank (R006015-BLK1)				Prepared: 06/09/2020 Analyzed: 06/09/2020 19:28						
1,1-Dichloroethene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Surrogate: Toluene-d8	*9.33*		*ug/L*	*10.00*		*93.3*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*8.08*		*ug/L*	*10.00*		*80.8*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*9.46*		*ug/L*	*10.00*		*94.6*	*80-120*			
LCS (R006015-BS1)				Prepared: 06/09/2020 Analyzed: 06/09/2020 17:33						
1,1-Dichloroethene	4.69	0.50	ug/L	5.000		93.8	60.6-148			
1,2-Dichloroethane	5.57	0.50	ug/L	5.000		111	78.9-134			
cis-1,2-Dichloroethene	5.04	0.50	ug/L	5.000		101	86.4-119			
Methylene chloride	5.50	2.0	ug/L	5.000		110	74-136			
Tetrachloroethene	4.85	0.50	ug/L	5.000		97.0	83.6-115			
trans-1,2-Dichloroethene	4.54	0.50	ug/L	5.000		90.8	80.8-125			
Trichloroethene	4.93	0.50	ug/L	5.000		98.6	80-120			
Vinyl chloride	6.05	0.50	ug/L	5.000		121	66.2-141			
Surrogate: Toluene-d8	*4.88*		*ug/L*	*5.000*		*97.6*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.74*		*ug/L*	*5.000*		*94.8*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.39*		*ug/L*	*5.000*		*108*	*80-120*			
Matrix Spike (R006015-MS1)		**Source: R202404-01**		Prepared: 06/09/2020 Analyzed: 06/09/2020 16:32						
1,1-Dichloroethene	4.84	0.50	ug/L	5.000	ND	96.8	35.8-173			
1,2-Dichloroethane	5.25	0.50	ug/L	5.000	ND	105	71.8-143			
cis-1,2-Dichloroethene	5.04	0.50	ug/L	5.000	ND	101	81.7-124			
Methylene chloride	5.62	2.0	ug/L	5.000	ND	112	64.1-146			
Tetrachloroethene	4.88	0.50	ug/L	5.000	ND	97.6	85.2-114			
trans-1,2-Dichloroethene	4.62	0.50	ug/L	5.000	ND	92.4	81.8-123			
Trichloroethene	4.98	0.50	ug/L	5.000	ND	99.6	80-120			

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006015 - EPA 5030B										
Matrix Spike (R006015-MS1)	**Source: R202404-01**			Prepared: 06/09/2020 Analyzed: 06/09/2020 16:32						
Vinyl chloride	5.88	0.50	ug/L	5.000	ND	118	64-147			
Surrogate: Toluene-d8	*4.92*		*ug/L*	*5.000*		*98.4*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.59*		*ug/L*	*5.000*		*91.8*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.35*		*ug/L*	*5.000*		*107*	*80-120*			
Matrix Spike Dup (R006015-MSD1)	**Source: R202404-01**			Prepared: 06/09/2020 Analyzed: 06/09/2020 17:03						
1,1-Dichloroethene	4.75	0.50	ug/L	5.000	ND	95.0	35.8-173	1.88	20	
1,2-Dichloroethane	5.32	0.50	ug/L	5.000	ND	106	71.8-143	1.32	20	
cis-1,2-Dichloroethene	4.99	0.50	ug/L	5.000	ND	99.8	81.7-124	0.997	20	
Methylene chloride	5.74	2.0	ug/L	5.000	ND	115	64.1-146	2.11	20	
Tetrachloroethene	4.93	0.50	ug/L	5.000	ND	98.6	85.2-114	1.02	20	
trans-1,2-Dichloroethene	4.68	0.50	ug/L	5.000	ND	93.6	81.8-123	1.29	20	
Trichloroethene	4.89	0.50	ug/L	5.000	ND	97.8	80-120	1.82	20	
Vinyl chloride	5.90	0.50	ug/L	5.000	ND	118	64-147	0.340	20	
Surrogate: Toluene-d8	*4.80*		*ug/L*	*5.000*		*96.0*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.53*		*ug/L*	*5.000*		*90.6*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*4.95*		*ug/L*	*5.000*		*99.0*	*80-120*			
Batch R006016 - EPA 5030B										
Blank (R006016-BLK1)				Prepared: 06/09/2020 Analyzed: 06/10/2020 10:03						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*499.0*		*95.3*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*499.0*		*78.5*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*483*		*ug/kg wet*	*499.0*		*96.7*	*80-120*			
LCS (R006016-BS1)				Prepared: 06/09/2020 Analyzed: 06/09/2020 23:39						
1,1-Dichloroethane	252	25	ug/kg wet	250.8		100	73-123			
1,1-Dichloroethene	223	25	ug/kg wet	250.8		89.0	56.6-131			
cis-1,2-Dichloroethene	245	25	ug/kg wet	250.8		97.8	76-115			
Methylene chloride	280	100	ug/kg wet	250.8		112	62.2-132			
Tetrachloroethene	241	25	ug/kg wet	250.8		96.2	73.7-114			
trans-1,2-Dichloroethene	228	25	ug/kg wet	250.8		90.8	73.5-116			
Trichloroethene	235	25	ug/kg wet	250.8		93.6	79.5-110			
Vinyl chloride	252	25	ug/kg wet	250.8		101	49.9-123			
Surrogate: Toluene-d8	*250*		*ug/kg wet*	*250.8*		*99.8*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*232*		*ug/kg wet*	*250.8*		*92.4*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*266*		*ug/kg wet*	*250.8*		*106*	*80-120*			

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Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006016 - EPA 5030B										
Matrix Spike (R006016-MS1)	**Source: R202405-02**			Prepared: 06/09/2020 Analyzed: 06/09/2020 22:44						
1,1-Dichloroethane	235	26	ug/kg dry	259.6	ND	90.6	64.5-113			
1,1-Dichloroethene	209	26	ug/kg dry	259.6	ND	80.4	42-122			
cis-1,2-Dichloroethene	250	26	ug/kg dry	259.6	ND	96.2	65.9-108			
Methylene chloride	277	100	ug/kg dry	259.6	ND	107	56.7-120			
Tetrachloroethene	229	26	ug/kg dry	259.6	ND	88.4	54-121			
trans-1,2-Dichloroethene	223	26	ug/kg dry	259.6	ND	85.8	61.1-110			
Trichloroethene	250	26	ug/kg dry	259.6	ND	96.4	63.1-112			
Vinyl chloride	227	26	ug/kg dry	259.6	ND	87.6	30.4-112			
Surrogate: Toluene-d8	*239*		*ug/kg dry*	*259.6*		*92.2*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*220*		*ug/kg dry*	*259.6*		*84.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*256*		*ug/kg dry*	*259.6*		*98.6*	*80-120*			
Matrix Spike Dup (R006016-MSD1)	**Source: R202405-02**			Prepared: 06/09/2020 Analyzed: 06/09/2020 23:12						
1,1-Dichloroethane	239	26	ug/kg dry	257.4	ND	92.8	64.5-113	1.56	20	
1,1-Dichloroethene	205	26	ug/kg dry	257.4	ND	79.8	42-122	1.59	20	
cis-1,2-Dichloroethene	239	26	ug/kg dry	257.4	ND	92.8	65.9-108	4.43	20	
Methylene chloride	254	100	ug/kg dry	257.4	ND	98.8	56.7-120	8.62	20	
Tetrachloroethene	229	26	ug/kg dry	257.4	ND	89.0	54-121	0.160	20	
trans-1,2-Dichloroethene	214	26	ug/kg dry	257.4	ND	83.2	61.1-110	3.91	20	
Trichloroethene	254	26	ug/kg dry	257.4	ND	98.8	63.1-112	1.62	20	
Vinyl chloride	221	26	ug/kg dry	257.4	ND	85.8	30.4-112	2.91	20	
Surrogate: Toluene-d8	*241*		*ug/kg dry*	*257.4*		*93.8*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*223*		*ug/kg dry*	*257.4*		*86.6*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*251*		*ug/kg dry*	*257.4*		*97.6*	*80-120*			
Batch R006018 - EPA 5030B										
Blank (R006018-BLK1)				Prepared: 06/10/2020 Analyzed: 06/10/2020 16:37						
1,1-Dichloroethene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Surrogate: Toluene-d8	*9.08*		*ug/L*	*10.00*		*90.8*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*7.53*		*ug/L*	*10.00*		*75.3*	*78.3-109*			*S*
Surrogate: 1,2-Dichlorobenzene-d4	*9.64*		*ug/L*	*10.00*		*96.4*	*80-120*			
LCS (R006018-BS1)				Prepared: 06/10/2020 Analyzed: 06/10/2020 20:20						
1,1-Dichloroethene	4.59	0.50	ug/L	5.000		91.8	60.6-148			
1,2-Dichloroethane	4.92	0.50	ug/L	5.000		98.4	78.9-134			
cis-1,2-Dichloroethene	5.00	0.50	ug/L	5.000		100	86.4-119			
Methylene chloride	5.11	2.0	ug/L	5.000		102	74-136			
Tetrachloroethene	5.17	0.50	ug/L	5.000		103	83.6-115			
trans-1,2-Dichloroethene	4.57	0.50	ug/L	5.000		91.4	80.8-125			
Trichloroethene	4.81	0.50	ug/L	5.000		96.2	80-120			

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006018 - EPA 5030B										
LCS (R006018-BS1)				Prepared: 06/10/2020 Analyzed: 06/10/2020 20:20						
Vinyl chloride	6.14	0.50	ug/L	5.000		123	66.2-141			
Surrogate: Toluene-d8	*4.91*		*ug/L*	*5.000*		*98.2*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.21*		*ug/L*	*5.000*		*84.2*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.19*		*ug/L*	*5.000*		*104*	*80-120*			
Matrix Spike (R006018-MS1)		**Source: R202406-01RE1**		Prepared: 06/10/2020 Analyzed: 06/10/2020 19:25						
1,1-Dichloroethene	47.1	5.0	ug/L	50.00	ND	94.2	35.8-173			D
1,2-Dichloroethane	50.3	5.0	ug/L	50.00	ND	101	71.8-143			D
cis-1,2-Dichloroethene	53.0	5.0	ug/L	50.00	2.40	101	81.7-124			D
Methylene chloride	52.4	20	ug/L	50.00	ND	105	64.1-146			D
Tetrachloroethene	51.1	5.0	ug/L	50.00	ND	102	85.2-114			D
trans-1,2-Dichloroethene	46.8	5.0	ug/L	50.00	ND	93.6	81.8-123			D
Trichloroethene	205	5.0	ug/L	50.00	163	83.2	80-120			D
Vinyl chloride	61.9	5.0	ug/L	50.00	ND	124	64-147			D
Surrogate: Toluene-d8	*48.8*		*ug/L*	*50.00*		*97.6*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*43.0*		*ug/L*	*50.00*		*86.0*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*53.3*		*ug/L*	*50.00*		*107*	*80-120*			
Matrix Spike Dup (R006018-MSD1)		**Source: R202406-01RE1**		Prepared: 06/10/2020 Analyzed: 06/10/2020 19:53						
1,1-Dichloroethene	48.1	5.0	ug/L	50.00	ND	96.2	35.8-173	2.10	20	D
1,2-Dichloroethane	50.2	5.0	ug/L	50.00	ND	100	71.8-143	0.199	20	D
cis-1,2-Dichloroethene	52.1	5.0	ug/L	50.00	2.40	99.4	81.7-124	1.71	20	D
Methylene chloride	55.2	20	ug/L	50.00	ND	110	64.1-146	5.20	20	D
Tetrachloroethene	53.7	5.0	ug/L	50.00	ND	107	85.2-114	4.96	20	D
trans-1,2-Dichloroethene	45.7	5.0	ug/L	50.00	ND	91.4	81.8-123	2.38	20	D
Trichloroethene	201	5.0	ug/L	50.00	163	75.4	80-120	1.92	20	M, D
Vinyl chloride	60.9	5.0	ug/L	50.00	ND	122	64-147	1.63	20	D
Surrogate: Toluene-d8	*48.7*		*ug/L*	*50.00*		*97.4*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*45.2*		*ug/L*	*50.00*		*90.4*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*52.6*		*ug/L*	*50.00*		*105*	*80-120*			

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Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006019 - EPA 5030B										
Blank (R006019-BLK1)				Prepared: 06/10/2020 Analyzed: 06/10/2020 16:08						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*250.5*		*108*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*250.5*		*90.6*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*282*		*ug/kg wet*	*250.5*		*112*	*80-120*			
LCS (R006019-BS1)				Prepared: 06/10/2020 Analyzed: 06/11/2020 17:55						
1,1-Dichloroethane	234	25	ug/kg wet	250.0		93.4	73-123			
1,1-Dichloroethene	232	25	ug/kg wet	250.0		92.8	56.6-131			
cis-1,2-Dichloroethene	237	25	ug/kg wet	250.0		94.6	76-115			
Methylene chloride	227	100	ug/kg wet	250.0		90.6	62.2-132			
Tetrachloroethene	239	25	ug/kg wet	250.0		95.4	73.7-114			
trans-1,2-Dichloroethene	240	25	ug/kg wet	250.0		96.0	73.5-116			
Trichloroethene	227	25	ug/kg wet	250.0		90.8	79.5-110			
Vinyl chloride	195	25	ug/kg wet	250.0		77.8	49.9-123			
Surrogate: Toluene-d8	*237*		*ug/kg wet*	*250.0*		*94.6*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*234*		*ug/kg wet*	*250.0*		*93.6*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*238*		*ug/kg wet*	*250.0*		*95.0*	*80-120*			
Matrix Spike (R006019-MS1)	**Source: R202407-01**			Prepared: 06/10/2020 Analyzed: 06/10/2020 18:30						
1,1-Dichloroethane	248	28	ug/kg dry	278.6	ND	89.0	64.5-113			
1,1-Dichloroethene	236	28	ug/kg dry	278.6	ND	84.6	42-122			
cis-1,2-Dichloroethene	262	28	ug/kg dry	278.6	13.3	89.2	65.9-108			
Methylene chloride	268	110	ug/kg dry	278.6	ND	96.2	56.7-120			
Tetrachloroethene	270	28	ug/kg dry	278.6	ND	97.0	54-121			
trans-1,2-Dichloroethene	234	28	ug/kg dry	278.6	ND	84.0	61.1-110			
Trichloroethene	507	28	ug/kg dry	278.6	405	36.6	63.1-112			M
Vinyl chloride	246	28	ug/kg dry	278.6	ND	88.4	30.4-112			
Surrogate: Toluene-d8	*250*		*ug/kg dry*	*278.6*		*89.6*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*226*		*ug/kg dry*	*278.6*		*81.2*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*282*		*ug/kg dry*	*278.6*		*101*	*80-120*			
Matrix Spike Dup (R006019-MSD1)	**Source: R202407-01**			Prepared: 06/10/2020 Analyzed: 06/10/2020 18:57						
1,1-Dichloroethane	240	26	ug/kg dry	263.1	ND	91.2	64.5-113	3.29	20	
1,1-Dichloroethene	217	26	ug/kg dry	263.1	ND	82.6	42-122	8.12	20	
cis-1,2-Dichloroethene	261	26	ug/kg dry	263.1	13.3	94.1	65.9-108	0.348	20	
Methylene chloride	264	110	ug/kg dry	263.1	ND	100	56.7-120	1.66	20	
Tetrachloroethene	251	26	ug/kg dry	263.1	ND	95.6	54-121	7.18	20	
trans-1,2-Dichloroethene	234	26	ug/kg dry	263.1	ND	89.0	61.1-110	0.0494	20	
Trichloroethene	557	26	ug/kg dry	263.1	405	57.8	63.1-112	9.42	20	M
Vinyl chloride	236	26	ug/kg dry	263.1	ND	89.8	30.4-112	4.16	20	
Surrogate: Toluene-d8	*247*		*ug/kg dry*	*263.1*		*93.8*	*61.9-110*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006019 - EPA 5030B										
Matrix Spike Dup (R006019-MSD1)	**Source: R202407-01**			Prepared: 06/10/2020 Analyzed: 06/10/2020 18:57						
Surrogate: 4-Bromofluorobenzene	*229*		*ug/kg dry*	*263.1*		*87.0*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*269*		*ug/kg dry*	*263.1*		*102*	*80-120*			
Batch R006021 - EPA 5030B										
Blank (R006021-BLK1)				Prepared: 06/12/2020 Analyzed: 06/12/2020 09:03						
1,1-Dichloroethene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Surrogate: Toluene-d8	*9.23*		*ug/L*	*10.00*		*92.3*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*8.50*		*ug/L*	*10.00*		*85.0*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*8.85*		*ug/L*	*10.00*		*88.5*	*80-120*			
LCS (R006021-BS1)				Prepared: 06/12/2020 Analyzed: 06/13/2020 09:43						
1,1-Dichloroethene	5.05	0.50	ug/L	5.000		101	60.6-148			
1,2-Dichloroethane	4.93	0.50	ug/L	5.000		98.6	78.9-134			
cis-1,2-Dichloroethene	5.03	0.50	ug/L	5.000		101	86.4-119			
Methylene chloride	4.69	2.0	ug/L	5.000		93.8	74-136			
Tetrachloroethene	4.92	0.50	ug/L	5.000		98.4	83.6-115			
trans-1,2-Dichloroethene	4.64	0.50	ug/L	5.000		92.8	80.8-125			
Trichloroethene	4.82	0.50	ug/L	5.000		96.4	80-120			
Vinyl chloride	5.88	0.50	ug/L	5.000		118	66.2-141			
Surrogate: Toluene-d8	*4.79*		*ug/L*	*5.000*		*95.8*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.79*		*ug/L*	*5.000*		*95.8*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.00*		*ug/L*	*5.000*		*100*	*80-120*			
Matrix Spike (R006021-MS1)	**Source: R202409-05**			Prepared: 06/12/2020 Analyzed: 06/12/2020 16:59						
1,1-Dichloroethene	2480	250	ug/L	2500	ND	99.2	35.8-173			D
1,2-Dichloroethane	2590	250	ug/L	2500	ND	103	71.8-143			D
cis-1,2-Dichloroethene	3260	250	ug/L	2500	702	102	81.7-124			D
Methylene chloride	2420	1000	ug/L	2500	ND	96.6	64.1-146			D
Tetrachloroethene	2600	250	ug/L	2500	ND	104	85.2-114			D
trans-1,2-Dichloroethene	2410	250	ug/L	2500	ND	96.4	81.8-123			D
Trichloroethene	14400	250	ug/L	2500	11500	118	80-120			D
Vinyl chloride	3050	250	ug/L	2500	ND	122	64-147			D
Surrogate: Toluene-d8	*2550*		*ug/L*	*2500*		*102*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*2440*		*ug/L*	*2500*		*97.4*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*2490*		*ug/L*	*2500*		*99.6*	*80-120*			

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006021 - EPA 5030B										
Matrix Spike Dup (R006021-MSD1)	**Source: R202409-05**			Prepared: 06/12/2020 Analyzed: 06/12/2020 17:27						
1,1-Dichloroethene	2430	250	ug/L	2500	ND	97.2	35.8-173	2.04	20	D
1,2-Dichloroethane	2450	250	ug/L	2500	ND	98.0	71.8-143	5.36	20	D
cis-1,2-Dichloroethene	3140	250	ug/L	2500	702	97.3	81.7-124	3.91	20	D
Methylene chloride	2380	1000	ug/L	2500	ND	95.2	64.1-146	1.46	20	D
Tetrachloroethene	2640	250	ug/L	2500	ND	105	85.2-114	1.34	20	D
trans-1,2-Dichloroethene	2510	250	ug/L	2500	ND	100	81.8-123	3.87	20	D
Trichloroethene	14300	250	ug/L	2500	11500	114	80-120	0.730	20	D
Vinyl chloride	2960	250	ug/L	2500	ND	118	64-147	2.83	20	D
Surrogate: Toluene-d8	*2500*		*ug/L*	*2500*		*100*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*2440*		*ug/L*	*2500*		*97.4*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*2670*		*ug/L*	*2500*		*107*	*80-120*			
Batch R006022 - EPA 5030B										
Blank (R006022-BLK1)				Prepared: 06/11/2020 Analyzed: 06/11/2020 16:30						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*499.5*		*93.8*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*499.5*		*88.6*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*439*		*ug/kg wet*	*499.5*		*87.8*	*80-120*			
LCS (R006022-BS1)				Prepared: 06/11/2020 Analyzed: 06/11/2020 18:23						
1,1-Dichloroethane	246	25	ug/kg wet	250.0		98.4	73-123			
1,1-Dichloroethene	244	25	ug/kg wet	250.0		97.6	56.6-131			
cis-1,2-Dichloroethene	247	25	ug/kg wet	250.0		98.8	76-115			
Methylene chloride	236	100	ug/kg wet	250.0		94.2	62.2-132			
Tetrachloroethene	240	25	ug/kg wet	250.0		96.0	73.7-114			
trans-1,2-Dichloroethene	242	25	ug/kg wet	250.0		96.6	73.5-116			
Trichloroethene	230	25	ug/kg wet	250.0		92.0	79.5-110			
Vinyl chloride	215	25	ug/kg wet	250.0		85.8	49.9-123			
Surrogate: Toluene-d8	*242*		*ug/kg wet*	*250.0*		*96.6*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*247*		*ug/kg wet*	*250.0*		*98.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*243*		*ug/kg wet*	*250.0*		*97.0*	*80-120*			
Matrix Spike (R006022-MS1)	**Source: R202408-01**			Prepared: 06/11/2020 Analyzed: 06/11/2020 18:51						
1,1-Dichloroethane	293	30	ug/kg dry	302.5	ND	96.8	64.5-113			
1,1-Dichloroethene	283	30	ug/kg dry	302.5	ND	93.4	42-122			
cis-1,2-Dichloroethene	290	30	ug/kg dry	302.5	ND	96.0	65.9-108			
Methylene chloride	274	120	ug/kg dry	302.5	ND	90.6	56.7-120			
Tetrachloroethene	289	30	ug/kg dry	302.5	ND	95.4	54-121			
trans-1,2-Dichloroethene	282	30	ug/kg dry	302.5	ND	93.2	61.1-110			
Trichloroethene	284	30	ug/kg dry	302.5	ND	94.0	63.1-112			

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Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006022 - EPA 5030B										
Matrix Spike (R006022-MS1)	**Source: R202408-01**			Prepared: 06/11/2020 Analyzed: 06/11/2020 18:51						
Vinyl chloride	261	30	ug/kg dry	302.5	ND	86.4	30.4-112			
Surrogate: Toluene-d8	*284*		*ug/kg dry*	*302.5*		*94.0*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*281*		*ug/kg dry*	*302.5*		*93.0*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*275*		*ug/kg dry*	*302.5*		*91.0*	*80-120*			
Matrix Spike Dup (R006022-MSD1)	**Source: R202408-01**			Prepared: 06/11/2020 Analyzed: 06/11/2020 19:18						
1,1-Dichloroethane	303	32	ug/kg dry	321.5	ND	94.2	64.5-113	3.35	20	
1,1-Dichloroethene	301	32	ug/kg dry	321.5	ND	93.6	42-122	6.28	20	
cis-1,2-Dichloroethene	309	32	ug/kg dry	321.5	ND	96.0	65.9-108	6.07	20	
Methylene chloride	293	130	ug/kg dry	321.5	ND	91.2	56.7-120	6.73	20	
Tetrachloroethene	296	32	ug/kg dry	321.5	ND	92.0	54-121	2.44	20	
trans-1,2-Dichloroethene	303	32	ug/kg dry	321.5	ND	94.4	61.1-110	7.35	20	
Trichloroethene	292	32	ug/kg dry	321.5	ND	90.8	63.1-112	2.61	20	
Vinyl chloride	275	32	ug/kg dry	321.5	ND	85.6	30.4-112	5.14	20	
Surrogate: Toluene-d8	*307*		*ug/kg dry*	*321.5*		*95.4*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*303*		*ug/kg dry*	*321.5*		*94.4*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*298*		*ug/kg dry*	*321.5*		*92.8*	*80-120*			
Batch R006024 - EPA 5030B										
Blank (R006024-BLK1)				Prepared: 06/12/2020 Analyzed: 06/13/2020 19:59						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*499.0*		*95.7*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*499.0*		*93.3*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*457*		*ug/kg wet*	*499.0*		*91.5*	*80-120*			
LCS (R006024-BS1)				Prepared: 06/12/2020 Analyzed: 06/13/2020 18:09						
1,1-Dichloroethane	246	25	ug/kg wet	250.0		98.4	73-123			
1,1-Dichloroethene	240	25	ug/kg wet	250.0		95.8	56.6-131			
cis-1,2-Dichloroethene	249	25	ug/kg wet	250.0		99.6	76-115			
Methylene chloride	233	100	ug/kg wet	250.0		93.2	62.2-132			
Tetrachloroethene	234	25	ug/kg wet	250.0		93.6	73.7-114			
trans-1,2-Dichloroethene	237	25	ug/kg wet	250.0		94.6	73.5-116			
Trichloroethene	236	25	ug/kg wet	250.0		94.2	79.5-110			
Vinyl chloride	215	25	ug/kg wet	250.0		85.8	49.9-123			
Surrogate: Toluene-d8	*243*		*ug/kg wet*	*250.0*		*97.2*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*250*		*ug/kg wet*	*250.0*		*100*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*242*		*ug/kg wet*	*250.0*		*96.6*	*80-120*			

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Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006024 - EPA 5030B										
Matrix Spike (R006024-MS1)	**Source: R202410-01**			Prepared: 06/12/2020 Analyzed: 06/12/2020 17:55						
1,1-Dichloroethane	4.95		ug/L	5.000	0.00	99.0	64.5-113			
1,1-Dichloroethene	4.82		ug/L	5.000	0.00	96.4	42-122			
cis-1,2-Dichloroethene	5.15		ug/L	5.000	0.00	103	65.9-108			
Methylene chloride	4.80		ug/L	5.000	0.00	96.0	56.7-120			
Tetrachloroethene	5.31		ug/L	5.000	0.00	106	54-121			
trans-1,2-Dichloroethene	4.94		ug/L	5.000	0.00	98.8	61.1-110			
Trichloroethene	7.96		ug/L	5.000	0.386	151	63.1-112			M
Vinyl chloride	4.45		ug/L	5.000	0.00	89.0	30.4-112			
Surrogate: Toluene-d8	*4.91*		*ug/L*	*5.000*		*98.2*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*4.91*		*ug/L*	*5.000*		*98.2*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*4.83*		*ug/L*	*5.000*		*96.6*	*80-120*			
Matrix Spike Dup (R006024-MSD1)	**Source: R202410-01**			Prepared: 06/12/2020 Analyzed: 06/12/2020 18:23						
1,1-Dichloroethane	4.82		ug/L	5.000	0.00	96.4	64.5-113		20	
1,1-Dichloroethene	4.74		ug/L	5.000	0.00	94.8	42-122		20	
cis-1,2-Dichloroethene	4.63		ug/L	5.000	0.00	92.6	65.9-108		20	
Methylene chloride	4.57		ug/L	5.000	0.00	91.4	56.7-120		20	
Tetrachloroethene	4.92		ug/L	5.000	0.00	98.4	54-121		20	
trans-1,2-Dichloroethene	4.76		ug/L	5.000	0.00	95.2	61.1-110	3.71	20	
Trichloroethene	6.02		ug/L	5.000	0.505	110	63.1-112	27.8	20	X
Vinyl chloride	4.10		ug/L	5.000	0.00	82.0	30.4-112		20	
Surrogate: Toluene-d8	*4.67*		*ug/L*	*5.000*		*93.4*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*4.49*		*ug/L*	*5.000*		*89.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*4.71*		*ug/L*	*5.000*		*94.2*	*80-120*			
Batch R006026 - EPA 5030B										
Blank (R006026-BLK1)				Prepared: 06/13/2020 Analyzed: 06/13/2020 19:32						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*501.0*		*96.3*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*501.0*		*91.7*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*460*		*ug/kg wet*	*501.0*		*91.9*	*80-120*			
LCS (R006026-BS1)				Prepared: 06/13/2020 Analyzed: 06/13/2020 17:41						
1,1-Dichloroethane	235	25	ug/kg wet	250.5		93.8	73-123			
1,1-Dichloroethene	221	25	ug/kg wet	250.5		88.2	56.6-131			
cis-1,2-Dichloroethene	245	25	ug/kg wet	250.5		97.8	76-115			
Methylene chloride	228	100	ug/kg wet	250.5		91.0	62.2-132			
Tetrachloroethene	239	25	ug/kg wet	250.5		95.4	73.7-114			
trans-1,2-Dichloroethene	236	25	ug/kg wet	250.5		94.4	73.5-116			
Trichloroethene	236	25	ug/kg wet	250.5		94.4	79.5-110			

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006026 - EPA 5030B										
LCS (R006026-BS1)				Prepared: 06/13/2020 Analyzed: 06/13/2020 17:41						
Vinyl chloride	208	25	ug/kg wet	250.5		83.0	49.9-123			
Surrogate: Toluene-d8	*235*		*ug/kg wet*	*250.5*		*93.8*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*235*		*ug/kg wet*	*250.5*		*94.0*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*233*		*ug/kg wet*	*250.5*		*93.2*	*80-120*			
Matrix Spike (R006026-MS1)	**Source: R202411-01**			Prepared: 06/13/2020 Analyzed: 06/14/2020 13:13						
1,1-Dichloroethane	256	31	ug/kg dry	307.9	ND	83.0	64.5-113			
1,1-Dichloroethene	249	31	ug/kg dry	307.9	ND	80.8	42-122			
cis-1,2-Dichloroethene	259	31	ug/kg dry	307.9	ND	84.0	65.9-108			
Methylene chloride	249	120	ug/kg dry	307.9	ND	80.8	56.7-120			
Tetrachloroethene	279	31	ug/kg dry	307.9	ND	90.6	54-121			
trans-1,2-Dichloroethene	256	31	ug/kg dry	307.9	ND	83.0	61.1-110			
Trichloroethene	252	31	ug/kg dry	307.9	ND	81.8	63.1-112			
Vinyl chloride	225	31	ug/kg dry	307.9	ND	73.2	30.4-112			
Surrogate: Toluene-d8	*260*		*ug/kg dry*	*307.9*		*84.4*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*257*		*ug/kg dry*	*307.9*		*83.6*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*230*		*ug/kg dry*	*307.9*		*74.8*	*80-120*			*S*
Matrix Spike Dup (R006026-MSD1)	**Source: R202411-01**			Prepared: 06/13/2020 Analyzed: 06/13/2020 17:13						
1,1-Dichloroethane	284	30	ug/kg dry	296.0	ND	95.8	64.5-113	10.4	20	
1,1-Dichloroethene	276	30	ug/kg dry	296.0	ND	93.4	42-122	10.5	20	
cis-1,2-Dichloroethene	282	30	ug/kg dry	296.0	ND	95.4	65.9-108	8.76	20	
Methylene chloride	264	120	ug/kg dry	296.0	ND	89.2	56.7-120	5.93	20	
Tetrachloroethene	300	30	ug/kg dry	296.0	ND	101	54-121	7.30	20	
trans-1,2-Dichloroethene	275	30	ug/kg dry	296.0	ND	93.0	61.1-110	7.41	20	
Trichloroethene	276	30	ug/kg dry	296.0	ND	93.2	63.1-112	9.08	20	
Vinyl chloride	228	30	ug/kg dry	296.0	ND	77.0	30.4-112	1.10	20	
Surrogate: Toluene-d8	*282*		*ug/kg dry*	*296.0*		*95.2*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*294*		*ug/kg dry*	*296.0*		*99.2*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*285*		*ug/kg dry*	*296.0*		*96.4*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006028 - EPA 5030B										
Blank (R006028-BLK1)				Prepared: 06/14/2020 Analyzed: 06/14/2020 09:01						
1,1-Dichloroethene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Surrogate: Toluene-d8	*9.31*		*ug/L*	*10.00*		*93.1*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*8.95*		*ug/L*	*10.00*		*89.5*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*9.00*		*ug/L*	*10.00*		*90.0*	*80-120*			
LCS (R006028-BS1)				Prepared: 06/14/2020 Analyzed: 06/14/2020 18:53						
1,1-Dichloroethene	5.00	0.50	ug/L	5.000		100	60.6-148			
1,2-Dichloroethane	5.08	0.50	ug/L	5.000		102	78.9-134			
cis-1,2-Dichloroethene	5.15	0.50	ug/L	5.000		103	86.4-119			
Methylene chloride	4.99	2.0	ug/L	5.000		99.8	74-136			
Tetrachloroethene	5.22	0.50	ug/L	5.000		104	83.6-115			
trans-1,2-Dichloroethene	4.95	0.50	ug/L	5.000		99.0	80.8-125			
Trichloroethene	4.80	0.50	ug/L	5.000		96.0	80-120			
Vinyl chloride	5.59	0.50	ug/L	5.000		112	66.2-141			
Surrogate: Toluene-d8	*4.94*		*ug/L*	*5.000*		*98.8*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*5.20*		*ug/L*	*5.000*		*104*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.00*		*ug/L*	*5.000*		*100*	*80-120*			
Matrix Spike (R006028-MS1)	**Source: R202412-01**			Prepared: 06/14/2020 Analyzed: 06/14/2020 16:33						
1,1-Dichloroethene	4.96	0.50	ug/L	5.000	ND	99.2	35.8-173			
1,2-Dichloroethane	5.14	0.50	ug/L	5.000	ND	103	71.8-143			
cis-1,2-Dichloroethene	5.81	0.50	ug/L	5.000	0.350	109	81.7-124			
Methylene chloride	5.09	2.0	ug/L	5.000	ND	102	64.1-146			
Tetrachloroethene	4.85	0.50	ug/L	5.000	ND	97.0	85.2-114			
trans-1,2-Dichloroethene	5.10	0.50	ug/L	5.000	ND	102	81.8-123			
Trichloroethene	11.7	0.50	ug/L	5.000	6.56	103	80-120			
Vinyl chloride	5.81	0.50	ug/L	5.000	ND	116	64-147			
Surrogate: Toluene-d8	*5.11*		*ug/L*	*5.000*		*102*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*5.05*		*ug/L*	*5.000*		*101*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.10*		*ug/L*	*5.000*		*102*	*80-120*			
Matrix Spike Dup (R006028-MSD1)	**Source: R202412-01**			Prepared: 06/14/2020 Analyzed: 06/14/2020 17:01						
1,1-Dichloroethene	4.78	0.50	ug/L	5.000	ND	95.6	35.8-173	3.70	20	
1,2-Dichloroethane	4.78	0.50	ug/L	5.000	ND	95.6	71.8-143	7.26	20	
cis-1,2-Dichloroethene	5.47	0.50	ug/L	5.000	0.350	102	81.7-124	6.03	20	
Methylene chloride	4.62	2.0	ug/L	5.000	ND	92.4	64.1-146	9.68	20	
Tetrachloroethene	4.83	0.50	ug/L	5.000	ND	96.6	85.2-114	0.413	20	
trans-1,2-Dichloroethene	4.65	0.50	ug/L	5.000	ND	93.0	81.8-123	9.23	20	
Trichloroethene	10.9	0.50	ug/L	5.000	6.56	86.6	80-120	7.09	20	
Vinyl chloride	5.74	0.50	ug/L	5.000	ND	115	64-147	1.21	20	
Surrogate: Toluene-d8	*4.72*		*ug/L*	*5.000*		*94.4*	*82.5-107*			

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006028 - EPA 5030B										
Matrix Spike Dup (R006028-MSD1)	**Source: R202412-01**			Prepared: 06/14/2020 Analyzed: 06/14/2020 17:01						
Surrogate: 4-Bromofluorobenzene	*4.83*		*ug/L*	*5.000*		*96.6*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*4.93*		*ug/L*	*5.000*		*98.6*	*80-120*			
Batch R006029 - EPA 5030B										
Blank (R006029-BLK1)				Prepared: 06/14/2020 Analyzed: 06/14/2020 14:38						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*501.0*		*97.7*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*501.0*		*94.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*471*		*ug/kg wet*	*501.0*		*94.1*	*80-120*			
LCS (R006029-BS1)				Prepared: 06/14/2020 Analyzed: 06/14/2020 18:26						
1,1-Dichloroethane	240	25	ug/kg wet	250.0		95.8	73-123			
1,1-Dichloroethene	221	25	ug/kg wet	250.0		88.4	56.6-131			
cis-1,2-Dichloroethene	240	25	ug/kg wet	250.0		96.0	76-115			
Methylene chloride	231	100	ug/kg wet	250.0		92.2	62.2-132			
Tetrachloroethene	244	25	ug/kg wet	250.0		97.4	73.7-114			
trans-1,2-Dichloroethene	240	25	ug/kg wet	250.0		96.0	73.5-116			
Trichloroethene	236	25	ug/kg wet	250.0		94.2	79.5-110			
Vinyl chloride	211	25	ug/kg wet	250.0		84.2	49.9-123			
Surrogate: Toluene-d8	*240*		*ug/kg wet*	*250.0*		*95.8*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*238*		*ug/kg wet*	*250.0*		*95.0*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*235*		*ug/kg wet*	*250.0*		*93.8*	*80-120*			
Matrix Spike (R006029-MS1)	**Source: R202502-01**			Prepared: 06/14/2020 Analyzed: 06/14/2020 17:29						
1,1-Dichloroethane	250	27	ug/kg dry	268.0	ND	93.2	64.5-113			
1,1-Dichloroethene	233	27	ug/kg dry	268.0	ND	86.8	42-122			
cis-1,2-Dichloroethene	240	27	ug/kg dry	268.0	ND	89.4	65.9-108			
Methylene chloride	233	110	ug/kg dry	268.0	ND	86.8	56.7-120			
Tetrachloroethene	253	27	ug/kg dry	268.0	ND	94.4	54-121			
trans-1,2-Dichloroethene	230	27	ug/kg dry	268.0	ND	86.0	61.1-110			
Trichloroethene	237	27	ug/kg dry	268.0	ND	88.6	63.1-112			
Vinyl chloride	203	27	ug/kg dry	268.0	ND	75.8	30.4-112			
Surrogate: Toluene-d8	*241*		*ug/kg dry*	*268.0*		*90.0*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*246*		*ug/kg dry*	*268.0*		*91.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*233*		*ug/kg dry*	*268.0*		*86.8*	*80-120*			

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Project Manager: Lynn Lutz

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006029 - EPA 5030B										
Matrix Spike Dup (R006029-MSD1)	**Source: R202502-01**			Prepared: 06/14/2020 Analyzed: 06/14/2020 17:58						
1,1-Dichloroethane	232	26	ug/kg dry	261.2	ND	89.0	64.5-113	7.18	20	
1,1-Dichloroethene	213	26	ug/kg dry	261.2	ND	81.6	42-122	8.75	20	
cis-1,2-Dichloroethene	223	26	ug/kg dry	261.2	ND	85.4	65.9-108	7.15	20	
Methylene chloride	214	100	ug/kg dry	261.2	ND	81.8	56.7-120	8.50	20	
Tetrachloroethene	232	26	ug/kg dry	261.2	ND	88.8	54-121	8.69	20	
trans-1,2-Dichloroethene	235	26	ug/kg dry	261.2	ND	89.8	61.1-110	1.75	20	
Trichloroethene	224	26	ug/kg dry	261.2	ND	85.8	63.1-112	5.79	20	
Vinyl chloride	186	26	ug/kg dry	261.2	ND	71.4	30.4-112	8.55	20	
Surrogate: Toluene-d8	*229*		*ug/kg dry*	*261.2*		*87.8*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*228*		*ug/kg dry*	*261.2*		*87.4*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*224*		*ug/kg dry*	*261.2*		*85.6*	*80-120*			
Batch R006031 - EPA 5030B										
Blank (R006031-BLK1)				Prepared: 06/15/2020 Analyzed: 06/15/2020 09:02						
1,1-Dichloroethene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Surrogate: Toluene-d8	*9.40*		*ug/L*	*10.00*		*94.0*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*8.77*		*ug/L*	*10.00*		*87.7*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*9.13*		*ug/L*	*10.00*		*91.3*	*80-120*			
LCS (R006031-BS1)				Prepared: 06/15/2020 Analyzed: 06/15/2020 10:54						
1,1-Dichloroethene	5.04	0.50	ug/L	5.000		101	60.6-148			
1,2-Dichloroethane	4.81	0.50	ug/L	5.000		96.2	78.9-134			
cis-1,2-Dichloroethene	5.12	0.50	ug/L	5.000		102	86.4-119			
Methylene chloride	4.83	2.0	ug/L	5.000		96.6	74-136			
Tetrachloroethene	5.36	0.50	ug/L	5.000		107	83.6-115			
trans-1,2-Dichloroethene	5.10	0.50	ug/L	5.000		102	80.8-125			
Trichloroethene	4.87	0.50	ug/L	5.000		97.4	80-120			
Vinyl chloride	5.88	0.50	ug/L	5.000		118	66.2-141			
Surrogate: Toluene-d8	*4.96*		*ug/L*	*5.000*		*99.2*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.80*		*ug/L*	*5.000*		*96.0*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*4.92*		*ug/L*	*5.000*		*98.4*	*80-120*			
Matrix Spike (R006031-MS1)	**Source: R202503-01RE1**			Prepared: 06/15/2020 Analyzed: 06/15/2020 11:50						
1,1-Dichloroethene	482	50	ug/L	500.0	ND	96.4	35.8-173			D
1,2-Dichloroethane	476	50	ug/L	500.0	ND	95.2	71.8-143			D
cis-1,2-Dichloroethene	546	50	ug/L	500.0	78.0	93.6	81.7-124			D
Methylene chloride	448	200	ug/L	500.0	ND	89.6	64.1-146			D
Tetrachloroethene	519	50	ug/L	500.0	ND	104	85.2-114			D
trans-1,2-Dichloroethene	489	50	ug/L	500.0	ND	97.8	81.8-123			D
Trichloroethene	2800	50	ug/L	500.0	2390	82.4	80-120			D

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Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006031 - EPA 5030B										
Matrix Spike (R006031-MS1)	**Source: R202503-01RE1**			Prepared: 06/15/2020 Analyzed: 06/15/2020 11:50						
Vinyl chloride	572	50	ug/L	500.0	ND	114	64-147			D
Surrogate: Toluene-d8	*467*		*ug/L*	*500.0*		*93.4*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*460*		*ug/L*	*500.0*		*92.0*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*471*		*ug/L*	*500.0*		*94.2*	*80-120*			
Matrix Spike Dup (R006031-MSD1)	**Source: R202503-01RE1**			Prepared: 06/15/2020 Analyzed: 06/15/2020 12:18						
1,1-Dichloroethene	462	50	ug/L	500.0	ND	92.4	35.8-173	4.24	20	D
1,2-Dichloroethane	481	50	ug/L	500.0	ND	96.2	71.8-143	1.04	20	D
cis-1,2-Dichloroethene	563	50	ug/L	500.0	78.0	97.0	81.7-124	3.07	20	D
Methylene chloride	472	200	ug/L	500.0	ND	94.4	64.1-146	5.22	20	D
Tetrachloroethene	486	50	ug/L	500.0	ND	97.2	85.2-114	6.57	20	D
trans-1,2-Dichloroethene	497	50	ug/L	500.0	ND	99.4	81.8-123	1.62	20	D
Trichloroethene	2830	50	ug/L	500.0	2390	86.6	80-120	0.746	20	D
Vinyl chloride	558	50	ug/L	500.0	ND	112	64-147	2.48	20	D
Surrogate: Toluene-d8	*475*		*ug/L*	*500.0*		*95.0*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*458*		*ug/L*	*500.0*		*91.6*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*474*		*ug/L*	*500.0*		*94.8*	*80-120*			
Batch R006032 - EPA 5030B										
Blank (R006032-BLK1)				Prepared: 06/15/2020 Analyzed: 06/15/2020 15:52						
1,1-Dichloroethane	ND	25	ug/kg wet							
1,1-Dichloroethene	ND	25	ug/kg wet							
cis-1,2-Dichloroethene	ND	25	ug/kg wet							
Methylene chloride	ND	100	ug/kg wet							
Tetrachloroethene	ND	25	ug/kg wet							
trans-1,2-Dichloroethene	ND	25	ug/kg wet							
Trichloroethene	ND	25	ug/kg wet							
Vinyl chloride	ND	25	ug/kg wet							
Surrogate: Toluene-d8	*ND*		*ug/kg wet*	*499.0*		*92.9*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*ND*		*ug/kg wet*	*499.0*		*88.4*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*460*		*ug/kg wet*	*499.0*		*92.1*	*80-120*			
LCS (R006032-BS1)				Prepared: 06/15/2020 Analyzed: 06/15/2020 17:21						
1,1-Dichloroethane	235	25	ug/kg wet	249.8		94.2	73-123			
1,1-Dichloroethene	218	25	ug/kg wet	249.8		87.2	56.6-131			
cis-1,2-Dichloroethene	244	25	ug/kg wet	249.8		97.6	76-115			
Methylene chloride	237	100	ug/kg wet	249.8		94.8	62.2-132			
Tetrachloroethene	248	25	ug/kg wet	249.8		99.2	73.7-114			
trans-1,2-Dichloroethene	234	25	ug/kg wet	249.8		93.6	73.5-116			
Trichloroethene	226	25	ug/kg wet	249.8		90.4	79.5-110			
Vinyl chloride	190	25	ug/kg wet	249.8		76.0	49.9-123			
Surrogate: Toluene-d8	*235*		*ug/kg wet*	*249.8*		*94.2*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*224*		*ug/kg wet*	*249.8*		*89.6*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*235*		*ug/kg wet*	*249.8*		*94.2*	*80-120*			

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006032 - EPA 5030B										
Matrix Spike (R006032-MS1)	**Source: R202504-01**			Prepared: 06/15/2020 Analyzed: 06/15/2020 18:17						
1,1-Dichloroethane	260	28	ug/kg dry	284.3	ND	91.6	64.5-113			
1,1-Dichloroethene	230	28	ug/kg dry	284.3	ND	80.8	42-122			
cis-1,2-Dichloroethene	260	28	ug/kg dry	284.3	ND	91.4	65.9-108			
Methylene chloride	250	110	ug/kg dry	284.3	ND	87.8	56.7-120			
Tetrachloroethene	263	28	ug/kg dry	284.3	ND	92.6	54-121			
trans-1,2-Dichloroethene	258	28	ug/kg dry	284.3	ND	90.8	61.1-110			
Trichloroethene	250	28	ug/kg dry	284.3	ND	87.8	63.1-112			
Vinyl chloride	204	28	ug/kg dry	284.3	ND	71.6	30.4-112			
Surrogate: Toluene-d8	*261*		*ug/kg dry*	*284.3*		*91.8*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*272*		*ug/kg dry*	*284.3*		*95.6*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*267*		*ug/kg dry*	*284.3*		*94.0*	*80-120*			
Matrix Spike Dup (R006032-MSD1)	**Source: R202504-01**			Prepared: 06/15/2020 Analyzed: 06/15/2020 18:45						
1,1-Dichloroethane	251	27	ug/kg dry	267.5	ND	94.0	64.5-113	3.53	20	
1,1-Dichloroethene	229	27	ug/kg dry	267.5	ND	85.8	42-122	0.112	20	
cis-1,2-Dichloroethene	253	27	ug/kg dry	267.5	ND	94.6	65.9-108	2.67	20	
Methylene chloride	241	110	ug/kg dry	267.5	ND	90.2	56.7-120	3.42	20	
Tetrachloroethene	260	27	ug/kg dry	267.5	ND	97.4	54-121	1.06	20	
trans-1,2-Dichloroethene	247	27	ug/kg dry	267.5	ND	92.4	61.1-110	4.37	20	
Trichloroethene	248	27	ug/kg dry	267.5	ND	92.6	63.1-112	0.794	20	
Vinyl chloride	205	27	ug/kg dry	267.5	ND	76.6	30.4-112	0.634	20	
Surrogate: Toluene-d8	*256*		*ug/kg dry*	*267.5*		*95.8*	*61.9-110*			
Surrogate: 4-Bromofluorobenzene	*262*		*ug/kg dry*	*267.5*		*97.8*	*59.1-115*			
Surrogate: 1,2-Dichlorobenzene-d4	*251*		*ug/kg dry*	*267.5*		*94.0*	*80-120*			
Batch R006034 - EPA 5030B										
Blank (R006034-BLK1)				Prepared: 06/16/2020 Analyzed: 06/16/2020 10:01						
1,1-Dichloroethene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Surrogate: Toluene-d8	*9.49*		*ug/L*	*10.00*		*94.9*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*8.70*		*ug/L*	*10.00*		*87.0*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*8.70*		*ug/L*	*10.00*		*87.0*	*80-120*			
LCS (R006034-BS1)				Prepared: 06/16/2020 Analyzed: 06/16/2020 08:38						
1,1-Dichloroethene	5.11	0.50	ug/L	5.000		102	60.6-148			
1,2-Dichloroethane	4.52	0.50	ug/L	5.000		90.4	78.9-134			
cis-1,2-Dichloroethene	5.08	0.50	ug/L	5.000		102	86.4-119			
Methylene chloride	4.98	2.0	ug/L	5.000		99.6	74-136			
Tetrachloroethene	5.49	0.50	ug/L	5.000		110	83.6-115			
trans-1,2-Dichloroethene	5.10	0.50	ug/L	5.000		102	80.8-125			
Trichloroethene	5.10	0.50	ug/L	5.000		102	80-120			

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Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006034 - EPA 5030B										
LCS (R006034-BS1)				Prepared: 06/16/2020 Analyzed: 06/16/2020 08:38						
Vinyl chloride	6.28	0.50	ug/L	5.000		126	66.2-141			
Surrogate: Toluene-d8	*4.97*		*ug/L*	*5.000*		*99.4*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.92*		*ug/L*	*5.000*		*98.4*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*4.77*		*ug/L*	*5.000*		*95.4*	*80-120*			
LCS Dup (R006034-BSD1)				Prepared: 06/16/2020 Analyzed: 06/16/2020 09:05						
1,1-Dichloroethene	4.97	0.50	ug/L	5.000		99.4	60.6-148	2.78	20	
1,2-Dichloroethane	4.73	0.50	ug/L	5.000		94.6	78.9-134	4.54	20	
cis-1,2-Dichloroethene	5.08	0.50	ug/L	5.000		102	86.4-119	0.00	20	
Methylene chloride	4.75	2.0	ug/L	5.000		95.0	74-136	4.73	20	
Tetrachloroethene	5.21	0.50	ug/L	5.000		104	83.6-115	5.23	20	
trans-1,2-Dichloroethene	4.96	0.50	ug/L	5.000		99.2	80.8-125	2.78	20	
Trichloroethene	4.68	0.50	ug/L	5.000		93.6	80-120	8.59	20	
Vinyl chloride	6.17	0.50	ug/L	5.000		123	66.2-141	1.77	20	
Surrogate: Toluene-d8	*4.92*		*ug/L*	*5.000*		*98.4*	*82.5-107*			
Surrogate: 4-Bromofluorobenzene	*4.82*		*ug/L*	*5.000*		*96.4*	*78.3-109*			
Surrogate: 1,2-Dichlorobenzene-d4	*4.85*		*ug/L*	*5.000*		*97.0*	*80-120*			

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HDR	Project: Longhorn Army Ammunition Plant (AAP)
9781 S. Merician Blvd., Suite 400	Project Number: 10097916
Englewood CO, 80112	Project Manager: Lynn Lutz

Classical Chemistry Parameters - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006003 - % Solids										
Duplicate (R006003-DUP1)		**Source: R202305-01**		Prepared: 06/02/2020 Analyzed: 06/03/2020 07:45						
% Solids	88.4	0.00	% by Weight		88.0			0.365	20	
Batch R006005 - % Solids										
Duplicate (R006005-DUP1)		**Source: R202306-06**		Prepared: 06/03/2020 Analyzed: 06/04/2020 07:38						
% Solids	92.7	0.00	% by Weight		92.9			0.284	20	
Batch R006008 - % Solids										
Duplicate (R006008-DUP1)		**Source: R202309-17**		Prepared: 06/04/2020 Analyzed: 06/05/2020 08:13						
% Solids	88.2	0.00	% by Weight		88.2			0.00979	20	
Batch R006011 - % Solids										
Duplicate (R006011-DUP1)		**Source: R202310-06**		Prepared: 06/05/2020 Analyzed: 06/07/2020 09:18						
% Solids	90.9	0.00	% by Weight		93.6			2.90	20	
Batch R006014 - % Solids										
Duplicate (R006014-DUP1)		**Source: R202403-01**		Prepared: 06/08/2020 Analyzed: 06/09/2020 07:45						
% Solids	93.2	0.00	% by Weight		93.3			0.104	20	
Batch R006017 - % Solids										
Duplicate (R006017-DUP1)		**Source: R202405-03**		Prepared: 06/09/2020 Analyzed: 06/10/2020 07:40						
% Solids	83.8	0.00	% by Weight		84.0			0.255	20	

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HDR
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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

Classical Chemistry Parameters - Quality Control

Pace Analytical - Lab #20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch R006020 - % Solids										
Duplicate (R006020-DUP1)		**Source: R202407-01**		Prepared: 06/10/2020 Analyzed: 06/11/2020 07:20						
% Solids	89.8	0.00	% by Weight		89.7			0.0630	20	
Batch R006023 - % Solids										
Duplicate (R006023-DUP1)		**Source: R202408-01**		Prepared: 06/11/2020 Analyzed: 06/12/2020 07:54						
% Solids	93.7	0.00	% by Weight		93.6			0.151	20	
Batch R006025 - % Solids										
Duplicate (R006025-DUP1)		**Source: R202410-01**		Prepared: 06/12/2020 Analyzed: 06/13/2020 07:33						
% Solids	88.9	0.00	% by Weight		89.0			0.121	20	
Batch R006027 - % Solids										
Duplicate (R006027-DUP1)		**Source: R202411-01**		Prepared: 06/13/2020 Analyzed: 06/14/2020 07:22						
% Solids	92.7	0.00	% by Weight		93.6			0.996	20	
Batch R006030 - % Solids										
Duplicate (R006030-DUP1)		**Source: R202502-01**		Prepared: 06/14/2020 Analyzed: 06/15/2020 07:21						
% Solids	86.7	0.00	% by Weight		86.9			0.267	20	
Batch R006033 - % Solids										
Duplicate (R006033-DUP1)		**Source: R202504-12**		Prepared: 06/15/2020 Analyzed: 06/16/2020 08:00						
% Solids	88.2	0.00	% by Weight		88.0			0.246	20	

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HDR	Project: Longhorn Army Ammunition Plant (AAP)
9781 S. Merician Blvd., Suite 400	Project Number: 10097916
Englewood CO, 80112	Project Manager: Lynn Lutz

Notes and Definitions

X	Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.
S	Surrogate recovery was outside of laboratory control limits.
M	The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
D	Data reported from a dilution
B	Analyte is also detected in the associated method blank.
ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

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CHAIN OF CUSTODY

No. 10318 Page: 1 of: 1

Lab Work Order #: R202301

Project Number: 10097916 PO Number: —

Project Name: LHAAP Bldg 46A

Project Location (City, State): Karnack, TX

Turn Around (check one): ☐ Normal ☐ Rush

If Rush, Report Due Date:

Sampled By (Print): ERIC NORTH

Report To: LYNN LUTZ

Company: HDR

Address 1:

Address 2:

E-mail Address: LYNN.LUTZ@HDRINC.COM

Invoice To:

Company:

Address 1:

Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes / Analyses Requested: VOC	Comments	Lab ID	Lab Receipt Time
47WW14	5/28/20	1420	GW	2	X		-01	6/2/20 07:17
47WW13	5/28/20	1530	GW	2	X		-02	
47WW37	5/28/20	1630	GW	2	X		-03	
47WW25R	5/28/20	1720	GW	2	X		-04	
LHSMW50	5/29/20	0735	GW	2	X		-05	
~~47WW42~~ eBW 47WW24	5/29/20	0835	GW	2	X		-06	
~~DPT-019 (4-5)~~	6/1/20	0955	SO	1	X	eBW		
~~DPT-019 (8-9)~~	6/1/20	1015	SO	1	X	eBW		
~~DPT-019 (14-15)~~	6/1/20	1055	SO	1	X	eBW		
~~DPT-019 (22-23)~~	6/1/20	1305	SO	1	X	eBW		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/1/20	1730	Received By:	6/2/20	07:49
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact

Shipped Via: Walk-in

Receipt Temp: NV

Thermometer #/ Exp. Date:

Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 10317 Page: 1 of: 1

Lab Work Order #: R202302

Report To: Lynn Lutz
Company: HBR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC	Comments	Lab ID	Lab Receipt Time
DPT-018 (7-8)	6/1/20	1505	So	1	X		-01	07:55
DPT-018 (15-16)	6/1/20	1515	So	1	X		-02	
DPT-018 (21-22)	6/1/20	1525	So	1	X		-03	
DPT-018 (32-33)	6/1/20	1605	So	1	X	413 PID	-04	
DPT-019 (4-5)	6/1/20	0955	So	1	X		-05	
DPT-019 (8-9)	6/1/20	1015	So	1	X		-06	
DPT-019 (14-15)	6/1/20	1055	So	1	X		-07	
DPT-019 (22-23)	6/1/20	1305	So	1	X		-08	2

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/1/20	1730	Received By:	6/2/20	07:55
Relinquished By:			Received By:		

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13600 Page: 1 of: 1

Project Number: 1004796 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Lab Work Order #: R202303

Preservation Codes
Analyses Requested

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-019(36)	6/2/20	0650	GW	2	X							-01	0755
DPT-018(40)	6/2/20	0710	GW	2	X							-02	↓

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/2/20	0755	Received By:	6/2/20	0755
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13601 Page: 1 of: 1

Lab Work Order #: R202305

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Comments	Lab ID	Lab Receipt Time
DPT-016 (7-8)	6/2/20	1000	SO	1		-01	17:17
DPT-016 (13-14)	6/2/20	1005	SO	1		-02	
DPT-016 (21-22)	6/2/20	1015	SO	1		-03	
DPT-016 (24-25)	6/2/20	1050	SO	3	MS/MSD	-04	
DUP-01	6/2/20	1010	SO	1		-05	
~~DPT-015 (3-4)~~	~~6/3/20~~	~~0740~~	~~SO~~	~~1~~	EN		9:54
~~DPT-015 (15-16)~~	~~6/3/20~~	~~0750~~	~~SO~~	~~1~~	EN		
~~DPT-015 (19-20)~~	~~6/3/20~~	~~0805~~	~~SO~~	~~1~~	EN		
~~DPT-015 (23-24)~~	~~6/3/20~~	~~0900~~	~~SO~~	~~1~~	EN		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/3/20	0930	Received By:	6/3/20	09:30
Relinquished By:			Received By:		

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13633 Page: 1 of: 2

Lab Work Order #: R202306

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10979/6 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-015 (3-4)	6/3/20	0740	SO	1	X							-01	09:37
DPT-015 (15-16)	6/3/20	0750	SO	1	X							-02	
DPT-015 (19-20)	6/3/20	0805	SO	1	X							-03	
DPT-015 (23-24)	6/3/20	0900	SO	1	X							-04	
DPT-017 (10-11)	6/3/20	1340	SO	1	X							-05	17:00
DPT-017 (17-18)	6/3/20	1350	SO	1	X						21.8 PID	-06	
DPT-017 (23-24)	6/3/20	1405	SO	1	X							-07	
DPT-017 (19-20)	6/3/20	1410	SO	1	X						15.9 PID	-08	
DUP-03	6/3/20	0800	SO	1	X							-09	
DPT-014 (3-4)	6/3/20	1540	SO	1	X						27.8 PID	-10	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/3/20	1700	Received By:	6/3/20	17:00
Relinquished By:			Received By:		

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walkin
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13613 Page: 2 of: 2

Lab Work Order #: R202306

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC	Comments	Lab ID	Lab Receipt Time
DPT-014 (19-20)	6/3/20	1550	SO	1	X	15.2 PID	-11	17:00
DPT-014 (10-11)	6/3/20	1620	SO	1	X	9.5 PID	-12	"
DPT-014 (25-26)	6/3/20	1600	SO	1	X	19.9 PID	-13	"

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/3/20	1700	Received By:	6/3/20	17:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13609 Page: 1 of: 1

Lab Work Order #: R202307

Report To: Lynn Lutz
Company: HGR
Address 1:
Address 2:
E-mail Address:

Project Number: 1009716 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-016 (42)	6/2/20	1440	GW	2	X							-01	09:30
DPT-016 (33)	6/3/20	0700	GW	2	X							-02	2

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date: 6/3/20	Time: 0930	Received By:	Date:	Time: 09:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: FedEx/Kit
Receipt Temp: N/A
Thermometer #/ Exp. Date: N/A
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13618 Page: 1 of: 1

Lab Work Order #: R202308

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-015(50)	6/4/20	0630	GW	2	X						MS/MSD	-01	08:00
DUP-05	6/4/20	0705	GW	2	X							-02	
DPT-015(31)	6/4/20	0710	GW	2	X							-03	
DPT-017(42)	6/4/20	0715	GW	2	X							-04	
DPT-017(32)	6/4/20	0720	GW	2	X							-05	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6/4/20	1620		6/4/20	16:20
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13614 Page: 1 of: 2

Lab Work Order #: R202309

Project Number: 1009916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-013 (1-2)	6/4/20	0755	SO	1	X							-01	11:50
DPT-013 (11-12)	6/4/20	0800	SO	1	X							-02	
DPT-013 (17-18)	6/4/20	0810	SO	1	X							-03	
DPT-013 (20-21)	6/4/20	0835	SO	1	X							-04	
DPT-012 (3-4)	6/4/20	0920	SO	3	X						MS/MSD	-05	
DPT-012 (11-12)	6/4/20	0925	SO	1	X						3 PID	-06	
DPT-012 (17-18)	6/4/20	0940	SO	1	X							-07	
DPT-012 (7-8)	6/4/20	0945	SO	1	X							-08	
DPT-020 (11-12)	6/4/20	1025	SO	1	X							-09	
DPT-020 (18-19)	6/4/20	1035	SO	1	X							-10	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/4/20	1620	Received By: Jeff Kent	6/4/20	1620
Relinquished By:			Received By:		

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13615 Page: 2 of: 2

Lab Work Order #: R202309

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097816 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, Tx

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-020 (14-15)	6/4/20	1100	SO	1	X							-11	11:50
DUP-06	6/4/20	1030	SO	1	X							-12	"
DPT-020 (5-6)	6/4/20	1120	SO	1	X							-13	"
DPT-021 (6-7)	6/4/20	1415	SO	1	X							-14	16:18
DPT-021 (10-11)	6/4/20	1430	SO	1	X							-15	"
DUP-07	6/4/20	1425	SO	1	X							-16	"
DPT-021 (19-20)	6/4/20	1450	SO	1	X							-17	"
DPT-021 (23-24)	6/4/20	1455	SO	1	X							-18	"

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/4/20	1620	Received By:	6/4/20	16:20
Relinquished By:			Received By:		

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walkin
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13603 Page: 1 of: 1

Lab Work Order #: R202310

Project Number: N097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-022 (5-6)	6/5/20	0950	SO	1	X							-01	16:55
DPT-022 (14-15)	6/5/20	1000	SO	3	X						MS/MSD	-02	
DPT-022 (8-9)	6/5/20	1005	SO	1	X							-03	
DPT-022 (20-21)	6/5/20	1030	SO	1	X							-04	
DPT-027 (8-9)	6/5/20	1320	SO	1	X							-05	
DPT-027 (11-12)	6/5/20	1325	SO	1	X							-06	
DPT-027 (2-3)	6/5/20	1350	SO	1	X							-07	
DPT-027 (5-6)	6/5/20	1400	SO	1	X							-08	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: John Moon	Date: 06/05	Time: 1800	Received By:	Date: 6/5/20	Time: 18:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Next/Kill
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13616 Page: 1 of: 1

Lab Work Order #: R202311

Report To: Lynn Lutz
Company: AOR
Address 1:
Address 2:
E-mail Address:

Project Number: 1097416 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric Norton

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-021(36)	6/5/20	0715	GW	2	X							-01	18:00
DPT-020(44)	6/5/20	0825	GW	2	X							-02	↓
~~DPT-015(26)~~	~~6/5/20~~	~~0835~~	~~GW~~	~~2~~	~~X~~		EM						

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By: John Moon	06/05	1800	Received By: Jeff Tabb	6/5/20	18:00
Relinquished By:			Received By:		

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13602 Page: 1 of: 1

Lab Work Order #: R202401-

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 100197916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, Tx
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric Mott

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOCs	Comments	Lab ID	Lab Receipt Time
DPT-026 (3-4)	6/7/20	0735	SO	1	X		-01	0712
DPT-026 (16-17)	6/7/20	0750	SO	1	X		-02	
DPT-026 (17-18)	6/7/20	0755	SO	1	X		-03	
DPT-026 (26-27)	6/7/20	0800	SO	1	X		-04	
DPT-023 (2-3)	6/7/20	1230	SO	1	X		-05	
DPT-023 (4-5)	6/7/20	1330	SO	1	X		-06	
DPT-023 (7-8)	6/7/20	1350	SO	1	X		-07	
DPT-023 (9-10)	6/7/20	1405	SO	1	X		-08	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/8/20	0715	Received By:	6/8/20	0712
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13617 Page: 1 of: 2

Lab Work Order #: R202402

Report To: Lynn Lutz
Company: HAR
Address 1:
Address 2:
E-mail Address:

Project Number: 100797916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-022(36)	06/06/20	0845	GW	2	X							-01	07:20
DPT-026(45)	6/8/20	0625	GW	2	X							-02	"
DPT-026(36)	6/8/20	0635	GW	2	X							-03	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6/8/20	0725		6/8/20	07:25
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13608 Page: 2 of: 2

Lab Work Order #: L202402

Report To: Lynn Lutz
Company: IDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State):

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-023(42)	6/8/20	1635	GW	2	X							-04	16:50
DPT-024(44)	6/8/20	1645	GW	2	X							-05	↓

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/8/20	1655	Received By:	6/8/20	16:55
Relinquished By:			Received By:		

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13604 Page: 1 of: 1

Lab Work Order #: R202403

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 100 97916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print):

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-024 (9-10)	6/8/20	1145	SO	3	X							-01	13:10
DUP-08	6/8/20	1100	SO	1	X							-02	
DPT-024 (13-14)	6/8/20	1200	SO	1	X							-03	
DPT-024 (17-18)	6/8/20	1205	SO	1	X							-04	
DPT-024 (21-22)	6/8/20	1210	SO	1	X							-05	
DUP-09	6/8/20	1215	SO	1	X							-06	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6/8/20	1455		6/8/20	16:55
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13610 Page: 1 of: 1

Lab Work Order #: R202404

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print):

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-024(33)	6/9/20	0710	GW	2	X							-01	08:00
DPT-013(33)	6/9/20	0720	GW	2	X							-02	
DPT-012(33)	6/9/20	0730	GW	2	X							-03	
DPT-023(33)	6/9/20	0650	GW	1	X							-04	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date: 6/9/20	Time: 0800	Received By:	Date: 6/9/20	Time: 08:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13605 Page: 1 of: 1

Lab Work Order #: R202405

Report To: Lynn Lutz
Company: ARDR
Address 1:
Address 2:
E-mail Address:

Project Number: IDO 97911b PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date: Eric North
Sampled By (Print):

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC	Comments	Lab ID	Lab Receipt Time
DPT-025 (6-7)	6/9/20	1155	So	1	X		-01	15:20
DPT-025 (11-12)	6/9/20	1200	So	3	X	MS/MSD	-02	"
DPT-025 (17-18)	6/9/20	1205	So	1	X	03	~~-04~~	"
DPT-025 (22-23)	6/9/20	1250	So	1	X	04	~~-05~~	"
						∑ 06-30-20		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	6/9/20	1521	Received By:	6/9/20	15:21
Relinquished By:	6/9/20	0	Received By:		

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13606 Page: 1 of: 1

Lab Work Order #: R202406

Report To: Lynn Lutz
Company: ADR
Address 1:
Address 2:
E-mail Address:

Project Number: 1097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack Tx

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print):

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-025(36)	6/10/20	0655	GW	2	X						MS/MSD	-01	08:18
DUP-10	6/10/20	0700	GW	2	X							-02	1
DPT-028(45)	6/10/20	1605	GW	2	X							-03	16:25

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6/10/20	1626		6/10/20	16:26
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13607 Page: 1 of: 1

Lab Work Order #: R2024107

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-028(10-11)	6/10/20	0740	SO	3	X						MS/MSD	-01	08:18
DPT-028(13-14)	6/10/20	0745	SO	1	X							-02	
DPT-028(16-17)	6/10/20	0750	SO	1	X							-03	
DUP-011	6/10/20	0735	SO	1	X							-04	
DPT-028(21-22)	6/10/20	0800	SO	1	X							-05	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6/10/20	1626		6/10/20	16:26
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13623 Page: 1 of: 2

Lab Work Order #: R202408

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-029 (7-8)	6/11/20	0755	SO	3	X						MS/MSD	-01	09:05
DUP-12	6/11/20	0730	SO	1	X							-02	
DPT-029 (13-14)	6/11/20	0810	SO	1	X							-03	
DPT-029 (17-18)	6/11/20	0815	SO	1	X							-04	
DPT-029 (21-22)	6/11/20	0820	SO	1	X							-05	
DUP-13	6/11/20	0825	SO	1	X							-06	
DPT-030 (10-11)	6/11/20	1345	SO	1	X							-07	17:35
DUP-14	6/11/20	1400	SO	1	X							-08	
DPT-030 (15-16)	6/11/20	1355	SO	1	X							-09	
DPT-030 (17-18)	6/11/20	1405	SO	1	X							-10	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6/11/20	1735		6/11/20	17:35
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13611 Page: 2 of: 2

Lab Work Order #: R202408

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Report To:
Company:
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
~~DPT~~-030 (19-20)	6/4/20	1410	SO	3	X						MS/MSD	-11	17:35
DPT-027 (17-18)	6/11/20	1705	SO	1	X							-12	"
DPT-027 (22-23)	6/11/20	1710	SO	1	X							-13	"
~~DPT-027 fm~~	~~6/11/20~~	fm											
~~DPT-027 (22-23) fm~~	~~6/11/20~~	fm											

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6/11/20	1735		6/11/20	17:35
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: walk in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13627 Page: 1 of: 2

Lab Work Order #: A202409

Report To: Lynn Lukz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes / Analyses Requested: VOC						Comments	Lab ID	Lab Receipt Time
FB-01	6/11/20	0720	EB	2	X							-01	08:05
FB-02	6/11/20	0745	EB	2	X							-02	↓
													↓

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	6/11/20	1735	[signature]	6/11/20	17:35
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: na/Kyh
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13612 Page: 2 of: 2

Lab Work Order #: R202409

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 100 97916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
EB-03	6/12/20	0650	EB	2	X							-03	08:05
EB-04	6/12/20	0655	EB	2	X							-04	
DPT-029(45)	6/12/20	0710	GW	2	X						MS/MSD	-05	
DUP-15	6/12/20	0700	GW	2	X							-06	
DPT-029(34)	6/12/20	0725	GW	2	X							-07	
DUP-16	6/12/20	0715	GW	2	X							-08	"
DPT-031(33)	6/12/20	1450	GW	2	X							-09	15:17
DPT-027(33)	6/12/20	1505	GW	2	X							-10	"

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	06/12/20	15:17	[signature]	6/12/20	15:17
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13619 Page: 1 of: 1

Lab Work Order #: R202410

Report To: Lyon Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-031 (12-13)	6/12/20	1050	SO	3	X						MS/MSD	-01	11:45
DPT-031 (3-4)	6/12/20	1055	SO	1	X							-02	
DPT-031 (16-17)	6/12/20	1100	SO	1	X							-03	
DPT-031 (21-22)	6/12/20	1210	SO	1	X							-04	13:45

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	6/12/20	1345		6/12/20	13:45
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13628 Page: 1 of: 1

Lab Work Order #: R202411

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, Tx
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Preservation Codes
Analyses Requested

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-032(12-13)	06/13	0915	SO	3	X							-01	09:15
DPT-032(15-16)	06/13	0920	SO	1	X							-02	
DPT-032(19-20)	06/13	0925	SO	1	X							-03	
DPT-032(21-22)	06/13	0930	SO	1	X							-04	2
DPT-033(8-9)	06/13	1220	SO	1	X							-05	12:50
DPT-033(12-13)	06/13	1230	SO	1	X							-06	
DPT-033(19-20)	06/13	1235	SO	1	X							-07	
DPT-033(22-23)	06/13	1240	SO	1	X							-08	2

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: [signature] Date: 06/13 Time: 1620 Received By: [signature] Date: 6/13/20 Time: 1620
Relinquished By: Date: Time: Received By: Date: Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13620 Page: 1 of: 1

Lab Work Order #: RR02412

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
~~DPT-034(5)~~ JM	~~06/13~~	~~1550~~	~~GW~~	~~2~~	~~X~~	~~JM~~							
DPT-032(35)	06/13	1550	GW	2	X							-01	16:20
~~DPT-032(50)~~ JM DPT-032(49.5)	06/13	1690	GW	2	X							-02	2

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: John Moorman Date: 06/13 Time: 1620
Received By: Jeff Hart Date: 6/13/20 Time: 16:20
Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13632 Page: 1 of: 1

Lab Work Order #: R202501

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-033(49)	06/14	0700	GW	2	X							-01	07:30
DPT-033(33)	06/14	0705	GW	2	X							-02	"
DPT-034(33)	06/14	0950	GW	2	X							-03	10:05

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: John Moorman	Date: 06/14	Time: 1005	Received By:	Date: 6/14/20	Time: 10105
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13631 Page: 1 of: 1

Lab Work Order #: R202502

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 100097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-034 (8-9)	06/14	0805	SO	3	X							-01	08:41
DPT-034 (15-16)	06/14	0810	SO	1	X							-02	
DPT-034 (18-19)	06/14	0815	SO	1	X							-03	
DPT-034 (22-23)	06/14	0820	SO	1	X							-04	2
DPT-035 (10-11)	06/14	1250	SO	1	X							-05	14:40
DPT-035 (15-16)	06/14	1255	SO	1	X							-06	
DPT-035 (18-19)	06/14	1300	SO	1	X							-07	
DPT-035 (21-22)	06/14	1305	SO	1	X							-08	2
													2

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date: 06/14	Time: 1440	Received By:	Date: 14:40	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walkin
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13630 Page: 1 of: 1

Lab Work Order #: R202503

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-035(49.5)	06/15	0710	GW	2	X							-01	07:38

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	06/16	07:35	[signature]	6/16/16	07:35
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Na/16n
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13626 Page: 1 of: 1

Lab Work Order #: B202504

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-036(11-12)	06/15	1155	SO	3	X							-01	12:32
DPT-036(15-16)	06/15	1200	SO	1	X							-02	
DPT-036(18-19)	06/15	1205	SO	1	X							-03	
DPT-036(21-22)	06/15	1210	SO	1	X							-04	
DPT-037(11-12)	06/15	1350	SO	1	X							-05	14:05
DPT-037(14-15)	06/15	1355	SO	1	X							-06	
DPT-037(18-19)	06/15	1400	SO	1	X							-07	
DPT-037(21-22)	06/15	1405	SO	1	X							-08	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date: 06/15	Time: 1410	Received By:	Date: 6/15/20	Time: 14:10
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: walk in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13629 Page: 2 of: 2

Lab Work Order #: R202504

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: BLDG. 46A LHAAP
Project Location (City, State): KARNACK, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-038(11-12)	06/15	~~1540~~ ~~1310~~	SO	1	X							-09	16:00
DPT-038(15-16)	06/15	~~1645~~ ~~1345~~	SO	1	X							-10	"
DPT-038(18-19)	06/15	~~1550~~ ~~1350~~	SO	1	X							-11	"
DPT-038(22-23)	06/15	~~1600~~ ~~1255~~ 1555	SO	1	X							-12	"

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: John Moorman	Date: 06/15	Time: 16:05	Received By:	Date: 6/15/16	Time: 1605
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walker
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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CHAIN OF CUSTODY

No. 13622 Page: 1 of: 1

Lab Work Order #: L202505

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
DPT-035(33)	06/16	0650	GW	2	X							-01	08:40
DPT-037(33)	06/16	0720	GW	2	X							-02	2
													6

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: John Moorman	Date: 06/16	Time: 1335	Received By: Jeff Heath	Date: 6/16/20	Time: 13:35
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Val/Kit
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202301-01	47WW14	Water	5/28/2020	6/2/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202301-01	47WW14	Water	5/28/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	0.5
R202301-01	47WW14	Water	5/28/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	60
R202301-01	47WW14	Water	5/28/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	8.2
R202301-01	47WW14	Water	5/28/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	93.9
R202301-01	47WW14	Water	5/28/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	100
R202301-01	47WW14	Water	5/28/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.9
R202301-01	47WW14	Water	5/28/2020	6/2/2020	75-01-4	Y	Vinyl chloride	0.8
R202301-01	47WW14	Water	5/28/2020	6/2/2020	75-09-2	Y	Methylene chloride	2
R202301-01	47WW14	Water	5/28/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202301-01	47WW14	Water	5/28/2020	6/2/2020	79-01-6	Y	Trichloroethene	37
R202301-02	47WW13	Water	5/28/2020	6/2/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202301-02	47WW13	Water	5/28/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	0.5
R202301-02	47WW13	Water	5/28/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	170
R202301-02	47WW13	Water	5/28/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	1.3
R202301-02	47WW13	Water	5/28/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	95.2
R202301-02	47WW13	Water	5/28/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	98.8
R202301-02	47WW13	Water	5/28/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	86.3
R202301-02	47WW13	Water	5/28/2020	6/2/2020	75-01-4	Y	Vinyl chloride	4
R202301-02	47WW13	Water	5/28/2020	6/2/2020	75-09-2	Y	Methylene chloride	2
R202301-02	47WW13	Water	5/28/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	0.81
R202301-02	47WW13	Water	5/28/2020	6/2/2020	79-01-6	Y	Trichloroethene	120
R202301-03	47WW37	Water	5/28/2020	6/2/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202301-03	47WW37	Water	5/28/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	0.5
R202301-03	47WW37	Water	5/28/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	12
R202301-03	47WW37	Water	5/28/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202301-03	47WW37	Water	5/28/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	93.1
R202301-03	47WW37	Water	5/28/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	101
R202301-03	47WW37	Water	5/28/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	83.7
R202301-03	47WW37	Water	5/28/2020	6/2/2020	75-01-4	Y	Vinyl chloride	0.5
R202301-03	47WW37	Water	5/28/2020	6/2/2020	75-09-2	Y	Methylene chloride	2
R202301-03	47WW37	Water	5/28/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202301-03	47WW37	Water	5/28/2020	6/2/2020	79-01-6	Y	Trichloroethene	180

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202301-01	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-01	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-01	ug/L	2.5	0.55	1.3	2.5	5	D		6/2/2020	6/5/2020
R202301-01	ug/L	0.5	0.11	0.25	0.5	1			6/2/2020	6/4/2020
R202301-01	% Recovery	0.5	0.19	0.25	0.5	1			6/2/2020	6/4/2020
R202301-01	% Recovery	0.5		0.25	0.5	1			6/2/2020	6/4/2020
R202301-01	% Recovery	0.5	0.24	0.25	0.5	1			6/2/2020	6/4/2020
R202301-01	ug/L	0.5	0.16	0.25	0.5	1			6/2/2020	6/4/2020
R202301-01	ug/L	2	0.14	0.25	2	1	U	U	6/2/2020	6/4/2020
R202301-01	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-01	ug/L	0.5	0.062	0.13	0.5	1			6/2/2020	6/4/2020
R202301-02	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-02	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-02	ug/L	5	1.1	2.5	5	10	D		6/2/2020	6/5/2020
R202301-02	ug/L	0.5	0.11	0.25	0.5	1			6/2/2020	6/4/2020
R202301-02	% Recovery	0.5	0.19	0.25	0.5	1			6/2/2020	6/4/2020
R202301-02	% Recovery	0.5		0.25	0.5	1			6/2/2020	6/4/2020
R202301-02	% Recovery	0.5	0.24	0.25	0.5	1			6/2/2020	6/4/2020
R202301-02	ug/L	0.5	0.16	0.25	0.5	1			6/2/2020	6/4/2020
R202301-02	ug/L	2	0.14	0.25	2	1	U	U	6/2/2020	6/4/2020
R202301-02	ug/L	0.5	0.14	0.25	0.5	1			6/2/2020	6/4/2020
R202301-02	ug/L	5	0.62	1.3	5	10	D		6/2/2020	6/5/2020
R202301-03	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-03	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-03	ug/L	0.5	0.11	0.25	0.5	1			6/2/2020	6/4/2020
R202301-03	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-03	% Recovery	0.5	0.19	0.25	0.5	1			6/2/2020	6/4/2020
R202301-03	% Recovery	0.5		0.25	0.5	1			6/2/2020	6/4/2020
R202301-03	% Recovery	0.5	0.24	0.25	0.5	1			6/2/2020	6/4/2020
R202301-03	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-03	ug/L	2	0.14	0.25	2	1	U	U	6/2/2020	6/4/2020
R202301-03	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-03	ug/L	5	0.62	1.3	5	10	D		6/2/2020	6/5/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	0.9
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	2500
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	7.8
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	89.2
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	99.5
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.7
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	75-01-4	Y	Vinyl chloride	25
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	75-09-2	Y	Methylene chloride	2
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	14
R202301-04	47WW25R	Water	5/28/2020	6/2/2020	79-01-6	Y	Trichloroethene	120000
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	0.5
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	94.5
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.2
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	75-01-4	Y	Vinyl chloride	0.5
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	75-09-2	Y	Methylene chloride	2
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202301-05	LHSMW50	Water	5/29/2020	6/2/2020	79-01-6	Y	Trichloroethene	0.6
R202301-06	47WW24	Water	5/29/2020	6/2/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202301-06	47WW24	Water	5/29/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	0.5
R202301-06	47WW24	Water	5/29/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202301-06	47WW24	Water	5/29/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202301-06	47WW24	Water	5/29/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	95.7
R202301-06	47WW24	Water	5/29/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	99.9
R202301-06	47WW24	Water	5/29/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	82.7
R202301-06	47WW24	Water	5/29/2020	6/2/2020	75-01-4	Y	Vinyl chloride	0.5
R202301-06	47WW24	Water	5/29/2020	6/2/2020	75-09-2	Y	Methylene chloride	2
R202301-06	47WW24	Water	5/29/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202301-06	47WW24	Water	5/29/2020	6/2/2020	79-01-6	Y	Trichloroethene	0.5

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202301-04	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/2/2020	6/4/2020
R202301-04	ug/L	0.5	0.081	0.25	0.5	1			6/2/2020	6/4/2020
R202301-04	ug/L	500	110	250	500	1000	D		6/2/2020	6/5/2020
R202301-04	ug/L	0.5	0.11	0.25	0.5	1			6/2/2020	6/4/2020
R202301-04	% Recovery	0.5	0.19	0.25	0.5	1			6/2/2020	6/4/2020
R202301-04	% Recovery	0.5		0.25	0.5	1			6/2/2020	6/4/2020
R202301-04	% Recovery	0.5	0.24	0.25	0.5	1			6/2/2020	6/4/2020
R202301-04	ug/L	0.5	0.16	0.25	0.5	1			6/2/2020	6/4/2020
R202301-04	ug/L	2	0.14	0.25	2	1	U	U	6/2/2020	6/4/2020
R202301-04	ug/L	0.5	0.14	0.25	0.5	1			6/2/2020	6/4/2020
R202301-04	ug/L	2500	310	630	2500	5000	D		6/2/2020	6/7/2020
R202301-05	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-05	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-05	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-05	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-05	% Recovery	0.5	0.19	0.25	0.5	1			6/2/2020	6/5/2020
R202301-05	% Recovery	0.5		0.25	0.5	1			6/2/2020	6/5/2020
R202301-05	% Recovery	0.5	0.24	0.25	0.5	1			6/2/2020	6/5/2020
R202301-05	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-05	ug/L	2	0.14	0.25	2	1	U	U	6/2/2020	6/5/2020
R202301-05	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-05	ug/L	0.5	0.062	0.13	0.5	1			6/2/2020	6/5/2020
R202301-06	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-06	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-06	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-06	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-06	% Recovery	0.5	0.19	0.25	0.5	1			6/2/2020	6/5/2020
R202301-06	% Recovery	0.5		0.25	0.5	1			6/2/2020	6/5/2020
R202301-06	% Recovery	0.5	0.24	0.25	0.5	1			6/2/2020	6/5/2020
R202301-06	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-06	ug/L	2	0.14	0.25	2	1	U	U	6/2/2020	6/5/2020
R202301-06	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/2/2020	6/5/2020
R202301-06	ug/L	0.5	0.062	0.13	0.5	1	U	U	6/2/2020	6/5/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	24
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	24
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	24
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	83.4
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	80.6
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	74.3
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	75-01-4	Y	Vinyl chloride	24
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	75-09-2	Y	Methylene chloride	96
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	24
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	24
R202302-01	DPT-018 (7-8)	Soil	6/1/2020	6/2/2020	79-01-6	Y	Trichloroethene	210
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	30
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	30
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	96.2
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	97.8
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	88.4
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	75-01-4	Y	Vinyl chloride	30
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	75-09-2	Y	Methylene chloride	120
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	30
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	30
R202302-02	DPT-018 (15-16)	Soil	6/1/2020	6/2/2020	79-01-6	Y	Trichloroethene	470
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	31
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	31
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	31
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	95.9
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.7
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	86.6
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	75-01-4	Y	Vinyl chloride	31
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	75-09-2	Y	Methylene chloride	120
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	31
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	31
R202302-03	DPT-018 (21-22)	Soil	6/1/2020	6/2/2020	79-01-6	Y	Trichloroethene	58

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202302-01	ug/kg wet	24	5.5	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-01	ug/kg wet	24	7.7	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-01	ug/kg wet	24	4.3	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-01	% Recovery	1200	4.8	24	1200	1	U	U	6/2/2020	6/2/2020
R202302-01	% Recovery	0.48		0.24	0.48	1			6/2/2020	6/2/2020
R202302-01	% Recovery	1200	5.3	24	1200	1	U	U	6/2/2020	6/2/2020
R202302-01	ug/kg wet	24	5.6	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-01	ug/kg wet	96	6.7	12	96	1	U	UJ	6/2/2020	6/2/2020
R202302-01	ug/kg wet	24	8.9	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-01	ug/kg wet	24	7	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-01	ug/kg wet	24	3.9	12	24	1		J-	6/2/2020	6/2/2020
R202302-02	ug/kg wet	30	6.8	15	30	1	U	UJ	6/2/2020	6/2/2020
R202302-02	ug/kg wet	30	9.6	15	30	1	U	UJ	6/2/2020	6/2/2020
R202302-02	ug/kg wet	30	5.4	15	30	1	U	UJ	6/2/2020	6/2/2020
R202302-02	% Recovery	1500	6	30	1500	1	U	U	6/2/2020	6/2/2020
R202302-02	% Recovery	0.6		0.3	0.6	1			6/2/2020	6/2/2020
R202302-02	% Recovery	1500	6.6	30	1500	1	U	U	6/2/2020	6/2/2020
R202302-02	ug/kg wet	30	6.9	15	30	1	U	UJ	6/2/2020	6/2/2020
R202302-02	ug/kg wet	120	8.4	15	120	1	U	UJ	6/2/2020	6/2/2020
R202302-02	ug/kg wet	30	11	15	30	1	U	UJ	6/2/2020	6/2/2020
R202302-02	ug/kg wet	30	8.7	15	30	1	U	UJ	6/2/2020	6/2/2020
R202302-02	ug/kg wet	30	4.9	15	30	1		J-	6/2/2020	6/2/2020
R202302-03	ug/kg wet	31	7	15	31	1	U	UJ	6/2/2020	6/2/2020
R202302-03	ug/kg wet	31	9.9	15	31	1	U	UJ	6/2/2020	6/2/2020
R202302-03	ug/kg wet	31	5.6	15	31	1	U	UJ	6/2/2020	6/2/2020
R202302-03	% Recovery	1500	6.2	31	1500	1	U	U	6/2/2020	6/2/2020
R202302-03	% Recovery	0.62		0.31	0.62	1			6/2/2020	6/2/2020
R202302-03	% Recovery	1500	6.8	31	1500	1	U	U	6/2/2020	6/2/2020
R202302-03	ug/kg wet	31	7.2	15	31	1	U	UJ	6/2/2020	6/2/2020
R202302-03	ug/kg wet	120	8.7	15	120	1	U	UJ	6/2/2020	6/2/2020
R202302-03	ug/kg wet	31	11	15	31	1	U	UJ	6/2/2020	6/2/2020
R202302-03	ug/kg wet	31	9	15	31	1	U	UJ	6/2/2020	6/2/2020
R202302-03	ug/kg wet	31	5.1	15	31	1		J-	6/2/2020	6/2/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	27
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	480
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	96.2
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.9
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	88.4
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	75-01-4	Y	Vinyl chloride	27
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	75-09-2	Y	Methylene chloride	110
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	27
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	27
R202302-04	DPT-018 (32-33)	Soil	6/1/2020	6/2/2020	79-01-6	Y	Trichloroethene	15000
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	29
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	91.2
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	93.9
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.3
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	75-01-4	Y	Vinyl chloride	29
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	75-09-2	Y	Methylene chloride	120
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	29
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	29
R202302-05	DPT-019 (4-5)	Soil	6/1/2020	6/2/2020	79-01-6	Y	Trichloroethene	30
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	24
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	24
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	24
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	94.9
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	99.4
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87.2
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	75-01-4	Y	Vinyl chloride	24
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	75-09-2	Y	Methylene chloride	97
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	24
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	24
R202302-06	DPT-019 (8-9)	Soil	6/1/2020	6/2/2020	79-01-6	Y	Trichloroethene	48

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202302-04	ug/kg wet	27	6.2	14	27	1	U	UJ	6/2/2020	6/2/2020
R202302-04	ug/kg wet	27	8.7	14	27	1		J-	6/2/2020	6/2/2020
R202302-04	ug/kg wet	27	4.9	14	27	1	U	UJ	6/2/2020	6/2/2020
R202302-04	% Recovery	1400	5.4	27	1400	1	U	U	6/2/2020	6/2/2020
R202302-04	% Recovery	0.54		0.27	0.54	1			6/2/2020	6/2/2020
R202302-04	% Recovery	1400	6	27	1400	1	U	U	6/2/2020	6/2/2020
R202302-04	ug/kg wet	27	6.3	14	27	1	U	UJ	6/2/2020	6/2/2020
R202302-04	ug/kg wet	110	7.6	14	110	1	U	UJ	6/2/2020	6/2/2020
R202302-04	ug/kg wet	27	10	14	27	1	U	UJ	6/2/2020	6/2/2020
R202302-04	ug/kg wet	27	7.9	14	27	1	U	UJ	6/2/2020	6/2/2020
R202302-04	ug/kg wet	540	89	270	540	20	D		6/2/2020	6/3/2020
R202302-05	ug/kg wet	29	6.6	15	29	1	U	UJ	6/2/2020	6/2/2020
R202302-05	ug/kg wet	29	9.3	15	29	1	U	UJ	6/2/2020	6/2/2020
R202302-05	ug/kg wet	29	5.2	15	29	1	U	UJ	6/2/2020	6/2/2020
R202302-05	% Recovery	1500	5.8	29	1500	1	U	U	6/2/2020	6/2/2020
R202302-05	% Recovery	0.58		0.29	0.58	1			6/2/2020	6/2/2020
R202302-05	% Recovery	1500	6.4	29	1500	1	U	U	6/2/2020	6/2/2020
R202302-05	ug/kg wet	29	6.7	15	29	1	U	UJ	6/2/2020	6/2/2020
R202302-05	ug/kg wet	120	8.1	15	120	1	U	UJ	6/2/2020	6/2/2020
R202302-05	ug/kg wet	29	11	15	29	1	U	UJ	6/2/2020	6/2/2020
R202302-05	ug/kg wet	29	8.5	15	29	1	U	UJ	6/2/2020	6/2/2020
R202302-05	ug/kg wet	29	4.8	15	29	1		J-	6/2/2020	6/2/2020
R202302-06	ug/kg wet	24	5.5	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-06	ug/kg wet	24	7.8	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-06	ug/kg wet	24	4.4	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-06	% Recovery	1200	4.9	24	1200	1	U	U	6/2/2020	6/2/2020
R202302-06	% Recovery	0.49		0.24	0.49	1			6/2/2020	6/2/2020
R202302-06	% Recovery	1200	5.3	24	1200	1	U	U	6/2/2020	6/2/2020
R202302-06	ug/kg wet	24	5.6	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-06	ug/kg wet	97	6.8	12	97	1	U	UJ	6/2/2020	6/2/2020
R202302-06	ug/kg wet	24	9	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-06	ug/kg wet	24	7.1	12	24	1	U	UJ	6/2/2020	6/2/2020
R202302-06	ug/kg wet	24	4	12	24	1		J-	6/2/2020	6/2/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	26
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	94.5
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	97.1
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.7
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	75-01-4	Y	Vinyl chloride	26
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	75-09-2	Y	Methylene chloride	100
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	26
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	26
R202302-07	DPT-019 (14-15)	Soil	6/1/2020	6/2/2020	79-01-6	Y	Trichloroethene	70
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	32
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	32
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	32
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	96.7
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	98.6
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	89.4
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	75-01-4	Y	Vinyl chloride	32
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	75-09-2	Y	Methylene chloride	130
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	32
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	32
R202302-08	DPT-019 (22-23)	Soil	6/1/2020	6/2/2020	79-01-6	Y	Trichloroethene	32
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	0.5
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	3.1
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	95.3
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	99
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.7
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	75-01-4	Y	Vinyl chloride	0.5
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	75-09-2	Y	Methylene chloride	2
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202303-01	DPT-019 (36)	Water	6/2/2020	6/2/2020	79-01-6	Y	Trichloroethene	170

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202302-07	ug/kg wet	26	5.9	13	26	1	U	UJ	6/2/2020	6/2/2020
R202302-07	ug/kg wet	26	8.4	13	26	1	U	UJ	6/2/2020	6/2/2020
R202302-07	ug/kg wet	26	4.7	13	26	1	U	UJ	6/2/2020	6/2/2020
R202302-07	% Recovery	1300	5.2	26	1300	1	U	U	6/2/2020	6/2/2020
R202302-07	% Recovery	0.52		0.26	0.52	1			6/2/2020	6/2/2020
R202302-07	% Recovery	1300	5.7	26	1300	1	U	U	6/2/2020	6/2/2020
R202302-07	ug/kg wet	26	6.1	13	26	1	U	UJ	6/2/2020	6/2/2020
R202302-07	ug/kg wet	100	7.3	13	100	1	U	UJ	6/2/2020	6/2/2020
R202302-07	ug/kg wet	26	9.7	13	26	1	U	UJ	6/2/2020	6/2/2020
R202302-07	ug/kg wet	26	7.6	13	26	1	U	UJ	6/2/2020	6/2/2020
R202302-07	ug/kg wet	26	4.3	13	26	1		J-	6/2/2020	6/2/2020
R202302-08	ug/kg wet	32	7.3	16	32	1	U	UJ	6/2/2020	6/3/2020
R202302-08	ug/kg wet	32	10	16	32	1	U	UJ	6/2/2020	6/3/2020
R202302-08	ug/kg wet	32	5.8	16	32	1	U	UJ	6/2/2020	6/3/2020
R202302-08	% Recovery	1600	6.4	32	1600	1	U	U	6/2/2020	6/3/2020
R202302-08	% Recovery	0.64		0.32	0.64	1			6/2/2020	6/3/2020
R202302-08	% Recovery	1600	7.1	32	1600	1	U	U	6/2/2020	6/3/2020
R202302-08	ug/kg wet	32	7.5	16	32	1	U	UJ	6/2/2020	6/3/2020
R202302-08	ug/kg wet	130	9	16	130	1	U	UJ	6/2/2020	6/3/2020
R202302-08	ug/kg wet	32	12	16	32	1	U	UJ	6/2/2020	6/3/2020
R202302-08	ug/kg wet	32	9.4	16	32	1	U	UJ	6/2/2020	6/3/2020
R202302-08	ug/kg wet	32	5.3	16	32	1	U	UJ	6/2/2020	6/3/2020
R202303-01	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/2/2020	6/3/2020
R202303-01	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/2/2020	6/3/2020
R202303-01	ug/L	0.5	0.11	0.25	0.5	1			6/2/2020	6/3/2020
R202303-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/2/2020	6/3/2020
R202303-01	% Recovery	0.5	0.19	0.25	0.5	1			6/2/2020	6/3/2020
R202303-01	% Recovery	0.5		0.25	0.5	1			6/2/2020	6/3/2020
R202303-01	% Recovery	0.5	0.24	0.25	0.5	1			6/2/2020	6/3/2020
R202303-01	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/2/2020	6/3/2020
R202303-01	ug/L	2	0.14	0.25	2	1	U	U	6/2/2020	6/3/2020
R202303-01	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/2/2020	6/3/2020
R202303-01	ug/L	5	0.62	1.3	5	10	D		6/2/2020	6/5/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	107-06-2	Y	1,2-Dichloroethane	100
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	100
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	1400
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	100
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	95.3
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	95.3
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	83.4
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	75-01-4	Y	Vinyl chloride	100
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	75-09-2	Y	Methylene chloride	400
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	100
R202303-02	DPT-018 (40)	Water	6/2/2020	6/2/2020	79-01-6	Y	Trichloroethene	41000
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	26
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	103
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	105
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	95.2
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	75-01-4	Y	Vinyl chloride	26
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	75-09-2	Y	Methylene chloride	100
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	26
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	26
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	79-01-6	Y	Trichloroethene	26
R202305-01	DPT-016 (7-8)	Soil	6/2/2020	6/2/2020	NA	Y	% Solids	88
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	28
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	85
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88.8
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	77.4
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	75-01-4	Y	Vinyl chloride	28
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	75-09-2	Y	Methylene chloride	110
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	28
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	28

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202303-02	ug/L	100	16	50	100	200	U	U	6/2/2020	6/3/2020
R202303-02	ug/L	100	16	50	100	200	U	U	6/2/2020	6/3/2020
R202303-02	ug/L	100	22	50	100	200	D		6/2/2020	6/3/2020
R202303-02	ug/L	100	22	50	100	200	U	U	6/2/2020	6/3/2020
R202303-02	% Recovery	0.5	0.19	0.25	0.5	1			6/2/2020	6/3/2020
R202303-02	% Recovery	0.5		0.25	0.5	1			6/2/2020	6/3/2020
R202303-02	% Recovery	0.5	0.24	0.25	0.5	1			6/2/2020	6/3/2020
R202303-02	ug/L	100	32	50	100	200	U	U	6/2/2020	6/3/2020
R202303-02	ug/L	400	28	50	400	200	U	U	6/2/2020	6/3/2020
R202303-02	ug/L	100	28	50	100	200	U	U	6/2/2020	6/3/2020
R202303-02	ug/L	1000	120	250	1000	2000	D		6/2/2020	6/5/2020
R202305-01	ug/kg dry	26	6	13	26	1	U	U	6/2/2020	6/3/2020
R202305-01	ug/kg dry	26	8.4	13	26	1	U	U	6/2/2020	6/3/2020
R202305-01	ug/kg dry	26	4.7	13	26	1	U	U	6/2/2020	6/3/2020
R202305-01	% Recovery	1300	5.2	26	1300	1	U	U	6/2/2020	6/3/2020
R202305-01	% Recovery	0.52		0.26	0.52	1			6/2/2020	6/3/2020
R202305-01	% Recovery	1300	5.8	26	1300	1	U	U	6/2/2020	6/3/2020
R202305-01	ug/kg dry	26	6.1	13	26	1	U	U	6/2/2020	6/3/2020
R202305-01	ug/kg dry	100	7.3	13	100	1	U	U	6/2/2020	6/3/2020
R202305-01	ug/kg dry	26	9.7	13	26	1	U	U	6/2/2020	6/3/2020
R202305-01	ug/kg dry	26	7.6	13	26	1	U	U	6/2/2020	6/3/2020
R202305-01	ug/kg dry	26	4.3	13	26	1	U	U	6/2/2020	6/3/2020
R202305-01	% by Weight	0	0		0	1			6/2/2020	6/3/2020
R202305-02	ug/kg dry	28	6.4	14	28	1	U	U	6/2/2020	6/3/2020
R202305-02	ug/kg dry	28	8.9	14	28	1	U	U	6/2/2020	6/3/2020
R202305-02	ug/kg dry	28	5	14	28	1	U	U	6/2/2020	6/3/2020
R202305-02	% Recovery	1400	5.6	28	1400	1	U	U	6/2/2020	6/3/2020
R202305-02	% Recovery	0.56		0.28	0.56	1			6/2/2020	6/3/2020
R202305-02	% Recovery	1400	6.2	28	1400	1	U	U	6/2/2020	6/3/2020
R202305-02	ug/kg dry	28	6.5	14	28	1	U	U	6/2/2020	6/3/2020
R202305-02	ug/kg dry	110	7.8	14	110	1	U	U	6/2/2020	6/3/2020
R202305-02	ug/kg dry	28	10	14	28	1	U	U	6/2/2020	6/3/2020
R202305-02	ug/kg dry	28	8.2	14	28	1	U	U	6/2/2020	6/3/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	79-01-6	Y	Trichloroethene	28
R202305-02	DPT-016 (13-14)	Soil	6/2/2020	6/2/2020	NA	Y	% Solids	84.9
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	26
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	104
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	105
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	90.1
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	75-01-4	Y	Vinyl chloride	26
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	75-09-2	Y	Methylene chloride	110
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	26
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	26
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	79-01-6	Y	Trichloroethene	26
R202305-03	DPT-016 (21-22)	Soil	6/2/2020	6/2/2020	NA	Y	% Solids	90
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	27
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	27
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	101
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	106
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	93.9
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	75-01-4	Y	Vinyl chloride	27
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	75-09-2	Y	Methylene chloride	110
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	27
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	27
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	79-01-6	Y	Trichloroethene	27
R202305-04	DPT-016 (24-25)	Soil	6/2/2020	6/2/2020	NA	Y	% Solids	83.1
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	127-18-4	Y	Tetrachloroethene	29
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	2037-26-5	Y	Toluene-d8 (surr)	108
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	112
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	98.6
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	75-01-4	Y	Vinyl chloride	29

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202305-02	ug/kg dry	28	4.6	14	28	1	U	U	6/2/2020	6/3/2020
R202305-02	% by Weight	0	0		0	1			6/2/2020	6/3/2020
R202305-03	ug/kg dry	26	6	13	26	1	U	U	6/2/2020	6/3/2020
R202305-03	ug/kg dry	26	8.5	13	26	1	U	U	6/2/2020	6/3/2020
R202305-03	ug/kg dry	26	4.8	13	26	1	U	U	6/2/2020	6/3/2020
R202305-03	% Recovery	1300	5.3	26	1300	1	U	U	6/2/2020	6/3/2020
R202305-03	% Recovery	0.53		0.26	0.53	1			6/2/2020	6/3/2020
R202305-03	% Recovery	1300	5.8	26	1300	1	U	U	6/2/2020	6/3/2020
R202305-03	ug/kg dry	26	6.1	13	26	1	U	U	6/2/2020	6/3/2020
R202305-03	ug/kg dry	110	7.4	13	110	1	U	U	6/2/2020	6/3/2020
R202305-03	ug/kg dry	26	9.9	13	26	1	U	U	6/2/2020	6/3/2020
R202305-03	ug/kg dry	26	7.7	13	26	1	U	U	6/2/2020	6/3/2020
R202305-03	ug/kg dry	26	4.3	13	26	1	U	U	6/2/2020	6/3/2020
R202305-03	% by Weight	0	0		0	1			6/2/2020	6/3/2020
R202305-04	ug/kg dry	27	6.1	13	27	1	U	U	6/2/2020	6/3/2020
R202305-04	ug/kg dry	27	8.6	13	27	1	U	U	6/2/2020	6/3/2020
R202305-04	ug/kg dry	27	4.8	13	27	1	U	U	6/2/2020	6/3/2020
R202305-04	% Recovery	1300	5.4	27	1300	1	U	U	6/2/2020	6/3/2020
R202305-04	% Recovery	0.54		0.27	0.54	1			6/2/2020	6/3/2020
R202305-04	% Recovery	1300	5.9	27	1300	1	U	U	6/2/2020	6/3/2020
R202305-04	ug/kg dry	27	6.3	13	27	1	U	U	6/2/2020	6/3/2020
R202305-04	ug/kg dry	110	7.5	13	110	1	U	U	6/2/2020	6/3/2020
R202305-04	ug/kg dry	27	10	13	27	1	U	U	6/2/2020	6/3/2020
R202305-04	ug/kg dry	27	7.9	13	27	1	U	U	6/2/2020	6/3/2020
R202305-04	ug/kg dry	27	4.4	13	27	1	U	U	6/2/2020	6/3/2020
R202305-04	% by Weight	0	0		0	1			6/2/2020	6/3/2020
R202305-05	ug/kg dry	29	6.6	14	29	1	U	U	6/2/2020	6/3/2020
R202305-05	ug/kg dry	29	9.2	14	29	1	U	U	6/2/2020	6/3/2020
R202305-05	ug/kg dry	29	5.2	14	29	1	U	U	6/2/2020	6/3/2020
R202305-05	% Recovery	1400	5.8	29	1400	1	U	U	6/2/2020	6/3/2020
R202305-05	% Recovery	0.58		0.29	0.58	1			6/2/2020	6/3/2020
R202305-05	% Recovery	1400	6.3	29	1400	1	U	U	6/2/2020	6/3/2020
R202305-05	ug/kg dry	29	6.7	14	29	1	U	U	6/2/2020	6/3/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	75-09-2	Y	Methylene chloride	120
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	75-34-3	Y	1,1-Dichloroethane	29
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	75-35-4	Y	1,1-Dichloroethene	29
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	79-01-6	Y	Trichloroethene	29
R202305-05	DUP-01	Soil	6/2/2020	6/2/2020	NA	Y	% Solids	82.8
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	29
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	91
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	92.5
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	90.1
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	29
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	120
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	29
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	29
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	100
R202306-01	DPT-015 (3-4)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	83.3
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	28
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	98.9
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	99.8
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	88.8
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	28
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	110
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	28
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	28
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	28
R202306-02	DPT-015 (15-16)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	88.7
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	28
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	109

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202305-05	ug/kg dry	120	8.1	14	120	1	U	U	6/2/2020	6/3/2020
R202305-05	ug/kg dry	29	11	14	29	1	U	U	6/2/2020	6/3/2020
R202305-05	ug/kg dry	29	8.4	14	29	1	U	U	6/2/2020	6/3/2020
R202305-05	ug/kg dry	29	4.7	14	29	1	U	U	6/2/2020	6/3/2020
R202305-05	% by Weight	0	0		0	1			6/2/2020	6/3/2020
R202306-01	ug/kg dry	29	6.6	14	29	1	U	U	6/3/2020	6/3/2020
R202306-01	ug/kg dry	29	9.2	14	29	1	U	U	6/3/2020	6/3/2020
R202306-01	ug/kg dry	29	5.2	14	29	1	U	U	6/3/2020	6/3/2020
R202306-01	% Recovery	1400	5.8	29	1400	1	U	U	6/3/2020	6/3/2020
R202306-01	% Recovery	0.58		0.29	0.58	1			6/3/2020	6/3/2020
R202306-01	% Recovery	1400	6.4	29	1400	1	U	U	6/3/2020	6/3/2020
R202306-01	ug/kg dry	29	6.7	14	29	1	U	U	6/3/2020	6/3/2020
R202306-01	ug/kg dry	120	8.1	14	120	1	U	U	6/3/2020	6/3/2020
R202306-01	ug/kg dry	29	11	14	29	1	U	U	6/3/2020	6/3/2020
R202306-01	ug/kg dry	29	8.4	14	29	1	U	U	6/3/2020	6/3/2020
R202306-01	ug/kg dry	29	4.7	14	29	1			6/3/2020	6/3/2020
R202306-01	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-02	ug/kg dry	28	6.4	14	28	1	U	U	6/3/2020	6/3/2020
R202306-02	ug/kg dry	28	8.9	14	28	1	U	U	6/3/2020	6/3/2020
R202306-02	ug/kg dry	28	5	14	28	1	U	U	6/3/2020	6/3/2020
R202306-02	% Recovery	1400	5.6	28	1400	1	U	U	6/3/2020	6/3/2020
R202306-02	% Recovery	0.56		0.28	0.56	1			6/3/2020	6/3/2020
R202306-02	% Recovery	1400	6.2	28	1400	1	U	U	6/3/2020	6/3/2020
R202306-02	ug/kg dry	28	6.5	14	28	1	U	U	6/3/2020	6/3/2020
R202306-02	ug/kg dry	110	7.8	14	110	1	U	U	6/3/2020	6/3/2020
R202306-02	ug/kg dry	28	10	14	28	1	U	U	6/3/2020	6/3/2020
R202306-02	ug/kg dry	28	8.2	14	28	1	U	U	6/3/2020	6/3/2020
R202306-02	ug/kg dry	28	4.6	14	28	1	U	U	6/3/2020	6/3/2020
R202306-02	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-03	ug/kg dry	28	6.4	14	28	1	U	U	6/3/2020	6/3/2020
R202306-03	ug/kg dry	28	9	14	28	1	U	U	6/3/2020	6/3/2020
R202306-03	ug/kg dry	28	5.1	14	28	1	U	U	6/3/2020	6/3/2020
R202306-03	% Recovery	1400	5.6	28	1400	1	U	U	6/3/2020	6/3/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	110
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	96.8
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	28
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	110
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	28
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	28
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	28
R202306-03	DPT-015 (19-20)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	91.5
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	30
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	30
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	87.2
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	74.9
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	30
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	120
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	30
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	30
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	210
R202306-04	DPT-015 (23-24)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	80.9
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	28
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	121
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	120
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	104
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	28
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	110
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	28
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	28
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	28
R202306-05	DPT-017 (10-11)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	92.1
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	27

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202306-03	% Recovery	0.56		0.28	0.56	1			6/3/2020	6/3/2020
R202306-03	% Recovery	1400	6.2	28	1400	1	U	U	6/3/2020	6/3/2020
R202306-03	ug/kg dry	28	6.5	14	28	1	U	U	6/3/2020	6/3/2020
R202306-03	ug/kg dry	110	7.9	14	110	1	U	U	6/3/2020	6/3/2020
R202306-03	ug/kg dry	28	10	14	28	1	U	U	6/3/2020	6/3/2020
R202306-03	ug/kg dry	28	8.2	14	28	1	U	U	6/3/2020	6/3/2020
R202306-03	ug/kg dry	28	4.6	14	28	1	U	U	6/3/2020	6/3/2020
R202306-03	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-04	ug/kg dry	30	6.8	15	30	1	U	U	6/3/2020	6/3/2020
R202306-04	ug/kg dry	30	9.5	15	30	1	U	U	6/3/2020	6/3/2020
R202306-04	ug/kg dry	30	5.3	15	30	1	U	U	6/3/2020	6/3/2020
R202306-04	% Recovery	1500	5.9	30	1500	1	U	U	6/3/2020	6/3/2020
R202306-04	% Recovery	0.59		0.3	0.59	1			6/3/2020	6/3/2020
R202306-04	% Recovery	1500	6.5	30	1500	1	U	U	6/3/2020	6/3/2020
R202306-04	ug/kg dry	30	6.9	15	30	1	U	U	6/3/2020	6/3/2020
R202306-04	ug/kg dry	120	8.3	15	120	1	U	U	6/3/2020	6/3/2020
R202306-04	ug/kg dry	30	11	15	30	1	U	U	6/3/2020	6/3/2020
R202306-04	ug/kg dry	30	8.7	15	30	1	U	U	6/3/2020	6/3/2020
R202306-04	ug/kg dry	30	4.9	15	30	1			6/3/2020	6/3/2020
R202306-04	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-05	ug/kg dry	28	6.5	14	28	1	U	U	6/3/2020	6/3/2020
R202306-05	ug/kg dry	28	9.1	14	28	1	U	U	6/3/2020	6/3/2020
R202306-05	ug/kg dry	28	5.1	14	28	1	U	U	6/3/2020	6/3/2020
R202306-05	% Recovery	1400	5.7	28	1400	1	S, U	U	6/3/2020	6/3/2020
R202306-05	% Recovery	0.57		0.28	0.57	1			6/3/2020	6/3/2020
R202306-05	% Recovery	1400	6.2	28	1400	1	U	U	6/3/2020	6/3/2020
R202306-05	ug/kg dry	28	6.6	14	28	1	U	U	6/3/2020	6/3/2020
R202306-05	ug/kg dry	110	8	14	110	1	U	U	6/3/2020	6/3/2020
R202306-05	ug/kg dry	28	11	14	28	1	U	U	6/3/2020	6/3/2020
R202306-05	ug/kg dry	28	8.3	14	28	1	U	U	6/3/2020	6/3/2020
R202306-05	ug/kg dry	28	4.7	14	28	1	U	U	6/3/2020	6/3/2020
R202306-05	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-06	ug/kg dry	27	6	13	27	1	U	U	6/3/2020	6/4/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	27
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	95.8
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	83.9
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	27
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	110
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	27
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	27
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	27
R202306-06	DPT-017 (17-18)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	92.9
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	27
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	32
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	95.8
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	97
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.3
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	27
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	110
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	27
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	27
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	730
R202306-07	DPT-017 (23-24)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	85.9
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	28
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	98.4
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	99.2
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.1
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	28
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	110
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	28
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	28

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202306-06	ug/kg dry	27	8.5	13	27	1	U	U	6/3/2020	6/4/2020
R202306-06	ug/kg dry	27	4.8	13	27	1	U	U	6/3/2020	6/4/2020
R202306-06	% Recovery	1300	5.3	27	1300	1	U	U	6/3/2020	6/4/2020
R202306-06	% Recovery	0.53		0.27	0.53	1			6/3/2020	6/4/2020
R202306-06	% Recovery	1300	5.8	27	1300	1	U	U	6/3/2020	6/4/2020
R202306-06	ug/kg dry	27	6.2	13	27	1	U	U	6/3/2020	6/4/2020
R202306-06	ug/kg dry	110	7.4	13	110	1	U	U	6/3/2020	6/4/2020
R202306-06	ug/kg dry	27	9.9	13	27	1	U	U	6/3/2020	6/4/2020
R202306-06	ug/kg dry	27	7.7	13	27	1	U	U	6/3/2020	6/4/2020
R202306-06	ug/kg dry	27	4.4	13	27	1	U	U	6/3/2020	6/4/2020
R202306-06	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-07	ug/kg dry	27	6.2	14	27	1	U	U	6/3/2020	6/3/2020
R202306-07	ug/kg dry	27	8.7	14	27	1			6/3/2020	6/3/2020
R202306-07	ug/kg dry	27	4.9	14	27	1	U	U	6/3/2020	6/3/2020
R202306-07	% Recovery	1400	5.4	27	1400	1	U	U	6/3/2020	6/3/2020
R202306-07	% Recovery	0.54		0.27	0.54	1			6/3/2020	6/3/2020
R202306-07	% Recovery	1400	6	27	1400	1	U	U	6/3/2020	6/3/2020
R202306-07	ug/kg dry	27	6.3	14	27	1	U	U	6/3/2020	6/3/2020
R202306-07	ug/kg dry	110	7.6	14	110	1	U	U	6/3/2020	6/3/2020
R202306-07	ug/kg dry	27	10	14	27	1	U	U	6/3/2020	6/3/2020
R202306-07	ug/kg dry	27	7.9	14	27	1	U	U	6/3/2020	6/3/2020
R202306-07	ug/kg dry	27	4.5	14	27	1			6/3/2020	6/3/2020
R202306-07	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-08	ug/kg dry	28	6.5	14	28	1	U	U	6/3/2020	6/4/2020
R202306-08	ug/kg dry	28	9.1	14	28	1	U	U	6/3/2020	6/4/2020
R202306-08	ug/kg dry	28	5.1	14	28	1	U	U	6/3/2020	6/4/2020
R202306-08	% Recovery	1400	5.7	28	1400	1	U	U	6/3/2020	6/4/2020
R202306-08	% Recovery	0.57		0.28	0.57	1			6/3/2020	6/4/2020
R202306-08	% Recovery	1400	6.3	28	1400	1	U	U	6/3/2020	6/4/2020
R202306-08	ug/kg dry	28	6.6	14	28	1	U	U	6/3/2020	6/4/2020
R202306-08	ug/kg dry	110	8	14	110	1	U	U	6/3/2020	6/4/2020
R202306-08	ug/kg dry	28	11	14	28	1	U	U	6/3/2020	6/4/2020
R202306-08	ug/kg dry	28	8.3	14	28	1	U	U	6/3/2020	6/4/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	28
R202306-08	DPT-017 (19-20)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	92.7
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	26
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	98.2
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	97.3
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87.9
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	26
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	100
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	26
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	26
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	26
R202306-09	DUP-03	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	92.1
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	37
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	37
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	37
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	97
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.4
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.5
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	37
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	150
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	37
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	37
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	37
R202306-10	DPT-014 (3-4)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	80.7
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	27
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	27
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	98.8
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	99.7
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	88.9
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	27

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202306-08	ug/kg dry	28	4.7	14	28	1	U	U	6/3/2020	6/4/2020
R202306-08	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-09	ug/kg dry	26	5.9	13	26	1	U	U	6/3/2020	6/3/2020
R202306-09	ug/kg dry	26	8.3	13	26	1	U	U	6/3/2020	6/3/2020
R202306-09	ug/kg dry	26	4.7	13	26	1	U	U	6/3/2020	6/3/2020
R202306-09	% Recovery	1300	5.2	26	1300	1	U	U	6/3/2020	6/3/2020
R202306-09	% Recovery	0.52		0.26	0.52	1			6/3/2020	6/3/2020
R202306-09	% Recovery	1300	5.7	26	1300	1	U	U	6/3/2020	6/3/2020
R202306-09	ug/kg dry	26	6	13	26	1	U	U	6/3/2020	6/3/2020
R202306-09	ug/kg dry	100	7.3	13	100	1	U	U	6/3/2020	6/3/2020
R202306-09	ug/kg dry	26	9.7	13	26	1	U	U	6/3/2020	6/3/2020
R202306-09	ug/kg dry	26	7.6	13	26	1	U	U	6/3/2020	6/3/2020
R202306-09	ug/kg dry	26	4.3	13	26	1	U	U	6/3/2020	6/3/2020
R202306-09	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-10	ug/kg dry	37	8.4	18	37	1	U	U	6/3/2020	6/4/2020
R202306-10	ug/kg dry	37	12	18	37	1	U	U	6/3/2020	6/4/2020
R202306-10	ug/kg dry	37	6.6	18	37	1	U	U	6/3/2020	6/4/2020
R202306-10	% Recovery	1800	7.4	37	1800	1	U	U	6/3/2020	6/4/2020
R202306-10	% Recovery	0.74		0.37	0.74	1			6/3/2020	6/4/2020
R202306-10	% Recovery	1800	8.1	37	1800	1	U	U	6/3/2020	6/4/2020
R202306-10	ug/kg dry	37	8.6	18	37	1	U	U	6/3/2020	6/4/2020
R202306-10	ug/kg dry	150	10	18	150	1	U	U	6/3/2020	6/4/2020
R202306-10	ug/kg dry	37	14	18	37	1	U	U	6/3/2020	6/4/2020
R202306-10	ug/kg dry	37	11	18	37	1	U	U	6/3/2020	6/4/2020
R202306-10	ug/kg dry	37	6.1	18	37	1	U	U	6/3/2020	6/4/2020
R202306-10	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-11	ug/kg dry	27	6.2	14	27	1	U	U	6/3/2020	6/4/2020
R202306-11	ug/kg dry	27	8.7	14	27	1	U	U	6/3/2020	6/4/2020
R202306-11	ug/kg dry	27	4.9	14	27	1	U	U	6/3/2020	6/4/2020
R202306-11	% Recovery	1400	5.4	27	1400	1	U	U	6/3/2020	6/4/2020
R202306-11	% Recovery	0.54		0.27	0.54	1			6/3/2020	6/4/2020
R202306-11	% Recovery	1400	6	27	1400	1	U	U	6/3/2020	6/4/2020
R202306-11	ug/kg dry	27	6.3	14	27	1	U	U	6/3/2020	6/4/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	110
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	27
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	27
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	27
R202306-11	DPT-014 (19-20)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	90.1
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	30
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	30
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	97.5
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	101
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	89.4
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	30
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	120
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	30
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	30
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	30
R202306-12	DPT-014 (10-11)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	89.9
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	30
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	41
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	99.4
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	99.1
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	88.6
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	30
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	120
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	75-34-3	Y	1,1-Dichloroethane	30
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	30
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	630
R202306-13	DPT-014 (25-26)	Soil	6/3/2020	6/3/2020	NA	Y	% Solids	91.4
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	0.5
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202306-11	ug/kg dry	110	7.6	14	110	1	U	U	6/3/2020	6/4/2020
R202306-11	ug/kg dry	27	10	14	27	1	U	U	6/3/2020	6/4/2020
R202306-11	ug/kg dry	27	7.9	14	27	1	U	U	6/3/2020	6/4/2020
R202306-11	ug/kg dry	27	4.4	14	27	1	U	U	6/3/2020	6/4/2020
R202306-11	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-12	ug/kg dry	30	6.8	15	30	1	U	U	6/3/2020	6/4/2020
R202306-12	ug/kg dry	30	9.6	15	30	1	U	U	6/3/2020	6/4/2020
R202306-12	ug/kg dry	30	5.4	15	30	1	U	U	6/3/2020	6/4/2020
R202306-12	% Recovery	1500	6	30	1500	1	U	U	6/3/2020	6/4/2020
R202306-12	% Recovery	0.6		0.3	0.6	1			6/3/2020	6/4/2020
R202306-12	% Recovery	1500	6.6	30	1500	1	U	U	6/3/2020	6/4/2020
R202306-12	ug/kg dry	30	7	15	30	1	U	U	6/3/2020	6/4/2020
R202306-12	ug/kg dry	120	8.4	15	120	1	U	U	6/3/2020	6/4/2020
R202306-12	ug/kg dry	30	11	15	30	1	U	U	6/3/2020	6/4/2020
R202306-12	ug/kg dry	30	8.8	15	30	1	U	U	6/3/2020	6/4/2020
R202306-12	ug/kg dry	30	4.9	15	30	1	U	U	6/3/2020	6/4/2020
R202306-12	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202306-13	ug/kg dry	30	6.8	15	30	1	U	U	6/3/2020	6/4/2020
R202306-13	ug/kg dry	30	9.6	15	30	1			6/3/2020	6/4/2020
R202306-13	ug/kg dry	30	5.4	15	30	1	U	U	6/3/2020	6/4/2020
R202306-13	% Recovery	1500	6	30	1500	1	U	U	6/3/2020	6/4/2020
R202306-13	% Recovery	0.6		0.3	0.6	1			6/3/2020	6/4/2020
R202306-13	% Recovery	1500	6.6	30	1500	1	U	U	6/3/2020	6/4/2020
R202306-13	ug/kg dry	30	7	15	30	1	U	U	6/3/2020	6/4/2020
R202306-13	ug/kg dry	120	8.4	15	120	1	U	U	6/3/2020	6/4/2020
R202306-13	ug/kg dry	30	11	15	30	1	U	U	6/3/2020	6/4/2020
R202306-13	ug/kg dry	30	8.8	15	30	1	U	U	6/3/2020	6/4/2020
R202306-13	ug/kg dry	30	4.9	15	30	1			6/3/2020	6/4/2020
R202306-13	% by Weight	0	0		0	1			6/3/2020	6/4/2020
R202307-01	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-01	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/3/2020	6/3/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	94.6
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	97.2
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.2
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	75-01-4	Y	Vinyl chloride	0.5
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	75-09-2	Y	Methylene chloride	2
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202307-01	DPT-016 (42)	Water	6/2/2020	6/3/2020	79-01-6	Y	Trichloroethene	0.5
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	127-18-4	Y	Tetrachloroethene	0.5
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	2037-26-5	Y	Toluene-d8 (surr)	95.2
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	98.6
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	82
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	75-01-4	Y	Vinyl chloride	0.5
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	75-09-2	Y	Methylene chloride	2
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202307-02	DPT-016 (33)	Water	6/3/2020	6/3/2020	79-01-6	Y	Trichloroethene	0.5
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	0.5
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	92.7
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	93.8
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	82.2
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	0.5
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	2
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202308-01	DPT-015 (50)	Water	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	1.4
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	0.5
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202307-01	% Recovery	0.5	0.19	0.25	0.5	1			6/3/2020	6/3/2020
R202307-01	% Recovery	0.5		0.25	0.5	1			6/3/2020	6/3/2020
R202307-01	% Recovery	0.5	0.24	0.25	0.5	1			6/3/2020	6/3/2020
R202307-01	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-01	ug/L	2	0.14	0.25	2	1	U	U	6/3/2020	6/3/2020
R202307-01	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-01	ug/L	0.5	0.062	0.13	0.5	1	U	U	6/3/2020	6/3/2020
R202307-02	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-02	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-02	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-02	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-02	% Recovery	0.5	0.19	0.25	0.5	1			6/3/2020	6/3/2020
R202307-02	% Recovery	0.5		0.25	0.5	1			6/3/2020	6/3/2020
R202307-02	% Recovery	0.5	0.24	0.25	0.5	1			6/3/2020	6/3/2020
R202307-02	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-02	ug/L	2	0.14	0.25	2	1	U	U	6/3/2020	6/3/2020
R202307-02	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/3/2020	6/3/2020
R202307-02	ug/L	0.5	0.062	0.13	0.5	1	U	U	6/3/2020	6/3/2020
R202308-01	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-01	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-01	% Recovery	0.5	0.19	0.25	0.5	1			6/4/2020	6/4/2020
R202308-01	% Recovery	0.5		0.25	0.5	1			6/4/2020	6/4/2020
R202308-01	% Recovery	0.5	0.24	0.25	0.5	1			6/4/2020	6/4/2020
R202308-01	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-01	ug/L	2	0.14	0.25	2	1	U	U	6/4/2020	6/4/2020
R202308-01	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-01	ug/L	0.5	0.062	0.13	0.5	1			6/4/2020	6/4/2020
R202308-02	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-02	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-02	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-02	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/4/2020	6/4/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	94.6
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.9
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.1
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	0.5
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	2
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202308-02	DUP-05	Water	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	1.5
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	0.5
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	5
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	97
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	99
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	83.4
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	0.5
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	2
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202308-03	DPT-015 (31)	Water	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	240
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	0.5
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	680
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	1.8
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	90.8
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.3
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	80.4
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	2.4
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	2
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	7.8
R202308-04	DPT-017 (42)	Water	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	6300
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	0.5
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	2200
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	5.4

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202308-02	% Recovery	0.5	0.19	0.25	0.5	1			6/4/2020	6/4/2020
R202308-02	% Recovery	0.5		0.25	0.5	1			6/4/2020	6/4/2020
R202308-02	% Recovery	0.5	0.24	0.25	0.5	1			6/4/2020	6/4/2020
R202308-02	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-02	ug/L	2	0.14	0.25	2	1	U	U	6/4/2020	6/4/2020
R202308-02	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-02	ug/L	0.5	0.062	0.13	0.5	1			6/4/2020	6/4/2020
R202308-03	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-03	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-03	ug/L	0.5	0.11	0.25	0.5	1			6/4/2020	6/4/2020
R202308-03	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-03	% Recovery	0.5	0.19	0.25	0.5	1			6/4/2020	6/4/2020
R202308-03	% Recovery	0.5		0.25	0.5	1			6/4/2020	6/4/2020
R202308-03	% Recovery	0.5	0.24	0.25	0.5	1			6/4/2020	6/4/2020
R202308-03	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-03	ug/L	2	0.14	0.25	2	1	U	U	6/4/2020	6/4/2020
R202308-03	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-03	ug/L	5	0.62	1.3	5	10	D		6/4/2020	6/5/2020
R202308-04	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-04	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-04	ug/L	500	110	250	500	1000	D		6/4/2020	6/5/2020
R202308-04	ug/L	0.5	0.11	0.25	0.5	1			6/4/2020	6/4/2020
R202308-04	% Recovery	0.5	0.19	0.25	0.5	1			6/4/2020	6/4/2020
R202308-04	% Recovery	0.5		0.25	0.5	1			6/4/2020	6/4/2020
R202308-04	% Recovery	0.5	0.24	0.25	0.5	1			6/4/2020	6/4/2020
R202308-04	ug/L	0.5	0.16	0.25	0.5	1			6/4/2020	6/4/2020
R202308-04	ug/L	2	0.14	0.25	2	1	U	U	6/4/2020	6/4/2020
R202308-04	ug/L	0.5	0.14	0.25	0.5	1			6/4/2020	6/4/2020
R202308-04	ug/L	500	62	130	500	1000	D		6/4/2020	6/5/2020
R202308-05	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-05	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/4/2020	6/4/2020
R202308-05	ug/L	500	110	250	500	1000	D		6/4/2020	6/5/2020
R202308-05	ug/L	0.5	0.11	0.25	0.5	1			6/4/2020	6/4/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	93
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	95.4
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.5
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	37
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	2
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	20
R202308-05	DPT-017 (32)	Water	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	23000
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	30
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	30
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	89.2
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	91.6
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	78.4
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	30
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	120
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	30
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	30
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	30
R202309-01	DPT-013 (1-2)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	81.7
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	23
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	23
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	23
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	90.2
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.4
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	80
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	23
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	93
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	23
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	23
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	56
R202309-02	DPT-013 (11-12)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	88.6
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	30
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	30

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202308-05	% Recovery	0.5	0.19	0.25	0.5	1			6/4/2020	6/4/2020
R202308-05	% Recovery	0.5		0.25	0.5	1			6/4/2020	6/4/2020
R202308-05	% Recovery	0.5	0.24	0.25	0.5	1			6/4/2020	6/4/2020
R202308-05	ug/L	0.5	0.16	0.25	0.5	1			6/4/2020	6/4/2020
R202308-05	ug/L	2	0.14	0.25	2	1	U	U	6/4/2020	6/4/2020
R202308-05	ug/L	0.5	0.14	0.25	0.5	1			6/4/2020	6/4/2020
R202308-05	ug/L	500	62	130	500	1000	D		6/4/2020	6/5/2020
R202309-01	ug/kg dry	30	6.7	15	30	1	U	U	6/4/2020	6/5/2020
R202309-01	ug/kg dry	30	9.5	15	30	1	U	U	6/4/2020	6/5/2020
R202309-01	ug/kg dry	30	5.3	15	30	1	U	U	6/4/2020	6/5/2020
R202309-01	% Recovery	1500	5.9	30	1500	1	U	U	6/4/2020	6/5/2020
R202309-01	% Recovery	0.59		0.3	0.59	1			6/4/2020	6/5/2020
R202309-01	% Recovery	1500	6.5	30	1500	1	U	U	6/4/2020	6/5/2020
R202309-01	ug/kg dry	30	6.9	15	30	1	U	U	6/4/2020	6/5/2020
R202309-01	ug/kg dry	120	8.3	15	120	1	U	U	6/4/2020	6/5/2020
R202309-01	ug/kg dry	30	11	15	30	1	U	U	6/4/2020	6/5/2020
R202309-01	ug/kg dry	30	8.6	15	30	1	U	U	6/4/2020	6/5/2020
R202309-01	ug/kg dry	30	4.8	15	30	1	U	U	6/4/2020	6/5/2020
R202309-01	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-02	ug/kg dry	23	5.3	12	23	1	U	U	6/4/2020	6/5/2020
R202309-02	ug/kg dry	23	7.4	12	23	1	U	U	6/4/2020	6/5/2020
R202309-02	ug/kg dry	23	4.2	12	23	1	U	U	6/4/2020	6/5/2020
R202309-02	% Recovery	1200	4.6	23	1200	1	U	U	6/4/2020	6/5/2020
R202309-02	% Recovery	0.46		0.23	0.46	1			6/4/2020	6/5/2020
R202309-02	% Recovery	1200	5.1	23	1200	1	U	U	6/4/2020	6/5/2020
R202309-02	ug/kg dry	23	5.4	12	23	1	U	U	6/4/2020	6/5/2020
R202309-02	ug/kg dry	93	6.5	12	93	1	U	U	6/4/2020	6/5/2020
R202309-02	ug/kg dry	23	8.6	12	23	1	U	U	6/4/2020	6/5/2020
R202309-02	ug/kg dry	23	6.8	12	23	1	U	U	6/4/2020	6/5/2020
R202309-02	ug/kg dry	23	3.8	12	23	1			6/4/2020	6/5/2020
R202309-02	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-03	ug/kg dry	30	6.8	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-03	ug/kg dry	30	9.5	15	30	1	U	UJ	6/4/2020	6/5/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	77.1
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	76.8
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	67.2
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	30
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	120
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	30
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	30
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	41
R202309-03	DPT-013 (17-18)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	87.4
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	29
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	62
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	94.8
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	99.5
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.4
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	29
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	120
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	29
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	29
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	500
R202309-04	DPT-013 (20-21)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	79.4
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	26
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	87.1
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	92.5
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	78.5
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	26
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	110
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	26
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	26
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	26

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202309-03	ug/kg dry	30	5.3	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-03	% Recovery	1500	5.9	30	1500	1	U	U	6/4/2020	6/5/2020
R202309-03	% Recovery	0.59		0.3	0.59	1	S		6/4/2020	6/5/2020
R202309-03	% Recovery	1500	6.5	30	1500	1	U	U	6/4/2020	6/5/2020
R202309-03	ug/kg dry	30	6.9	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-03	ug/kg dry	120	8.3	15	120	1	U	UJ	6/4/2020	6/5/2020
R202309-03	ug/kg dry	30	11	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-03	ug/kg dry	30	8.7	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-03	ug/kg dry	30	4.9	15	30	1		J-	6/4/2020	6/5/2020
R202309-03	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-04	ug/kg dry	29	6.6	14	29	1	U	U	6/4/2020	6/5/2020
R202309-04	ug/kg dry	29	9.3	14	29	1			6/4/2020	6/5/2020
R202309-04	ug/kg dry	29	5.2	14	29	1	U	U	6/4/2020	6/5/2020
R202309-04	% Recovery	1400	5.8	29	1400	1	U	U	6/4/2020	6/5/2020
R202309-04	% Recovery	0.58		0.29	0.58	1			6/4/2020	6/5/2020
R202309-04	% Recovery	1400	6.4	29	1400	1	U	U	6/4/2020	6/5/2020
R202309-04	ug/kg dry	29	6.7	14	29	1	U	U	6/4/2020	6/5/2020
R202309-04	ug/kg dry	120	8.1	14	120	1	U	U	6/4/2020	6/5/2020
R202309-04	ug/kg dry	29	11	14	29	1	U	U	6/4/2020	6/5/2020
R202309-04	ug/kg dry	29	8.5	14	29	1	U	U	6/4/2020	6/5/2020
R202309-04	ug/kg dry	29	4.7	14	29	1			6/4/2020	6/5/2020
R202309-04	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-05	ug/kg dry	26	6	13	26	1	U	U	6/4/2020	6/4/2020
R202309-05	ug/kg dry	26	8.4	13	26	1	U	U	6/4/2020	6/4/2020
R202309-05	ug/kg dry	26	4.7	13	26	1	U	U	6/4/2020	6/4/2020
R202309-05	% Recovery	1300	5.3	26	1300	1	U	U	6/4/2020	6/4/2020
R202309-05	% Recovery	0.53		0.26	0.53	1			6/4/2020	6/4/2020
R202309-05	% Recovery	1300	5.8	26	1300	1	U	U	6/4/2020	6/4/2020
R202309-05	ug/kg dry	26	6.1	13	26	1	U	U	6/4/2020	6/4/2020
R202309-05	ug/kg dry	110	7.4	13	110	1	U	U	6/4/2020	6/4/2020
R202309-05	ug/kg dry	26	9.8	13	26	1	U	U	6/4/2020	6/4/2020
R202309-05	ug/kg dry	26	7.7	13	26	1	U	U	6/4/2020	6/4/2020
R202309-05	ug/kg dry	26	4.3	13	26	1	U	U	6/4/2020	6/4/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202309-05	DPT-012 (3-4)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	86.2
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	25
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	25
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	25
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	87.4
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88.9
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	78.9
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	25
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	100
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	25
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	25
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	25
R202309-06	DPT-012 (11-12)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	85.6
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	32
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	32
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	32
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	80
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	82.3
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	70.4
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	32
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	130
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	32
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	32
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	32
R202309-07	DPT-012 (17-18)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	79.5
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	36
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	36
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	36
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	95.1
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.1
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	82.7
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	36
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	140

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202309-05	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-06	ug/kg dry	25	5.8	13	25	1	U	U	6/4/2020	6/4/2020
R202309-06	ug/kg dry	25	8.1	13	25	1	U	U	6/4/2020	6/4/2020
R202309-06	ug/kg dry	25	4.6	13	25	1	U	U	6/4/2020	6/4/2020
R202309-06	% Recovery	1300	5.1	25	1300	1	U	U	6/4/2020	6/4/2020
R202309-06	% Recovery	0.51		0.25	0.51	1			6/4/2020	6/4/2020
R202309-06	% Recovery	1300	5.6	25	1300	1	U	U	6/4/2020	6/4/2020
R202309-06	ug/kg dry	25	5.9	13	25	1	U	U	6/4/2020	6/4/2020
R202309-06	ug/kg dry	100	7.1	13	100	1	U	U	6/4/2020	6/4/2020
R202309-06	ug/kg dry	25	9.4	13	25	1	U	U	6/4/2020	6/4/2020
R202309-06	ug/kg dry	25	7.4	13	25	1	U	U	6/4/2020	6/4/2020
R202309-06	ug/kg dry	25	4.1	13	25	1	U	U	6/4/2020	6/4/2020
R202309-06	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-07	ug/kg dry	32	7.3	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-07	ug/kg dry	32	10	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-07	ug/kg dry	32	5.8	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-07	% Recovery	1600	6.4	32	1600	1	U	U	6/4/2020	6/4/2020
R202309-07	% Recovery	0.64		0.32	0.64	1			6/4/2020	6/4/2020
R202309-07	% Recovery	1600	7.1	32	1600	1	U	U	6/4/2020	6/4/2020
R202309-07	ug/kg dry	32	7.4	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-07	ug/kg dry	130	9	16	130	1	U	UJ	6/4/2020	6/4/2020
R202309-07	ug/kg dry	32	12	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-07	ug/kg dry	32	9.4	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-07	ug/kg dry	32	5.3	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-07	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-08	ug/kg dry	36	8.1	18	36	1	U	U	6/4/2020	6/4/2020
R202309-08	ug/kg dry	36	11	18	36	1	U	U	6/4/2020	6/4/2020
R202309-08	ug/kg dry	36	6.4	18	36	1	U	U	6/4/2020	6/4/2020
R202309-08	% Recovery	1800	7.1	36	1800	1	U	U	6/4/2020	6/4/2020
R202309-08	% Recovery	0.71		0.36	0.71	1			6/4/2020	6/4/2020
R202309-08	% Recovery	1800	7.8	36	1800	1	U	U	6/4/2020	6/4/2020
R202309-08	ug/kg dry	36	8.3	18	36	1	U	U	6/4/2020	6/4/2020
R202309-08	ug/kg dry	140	10	18	140	1	U	U	6/4/2020	6/4/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	36
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	36
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	36
R202309-08	DPT-012 (7-8)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	87.2
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	29
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	84.4
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	87.2
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	74.5
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	29
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	120
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	29
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	29
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	29
R202309-09	DPT-020 (11-12)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	87.4
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	26
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	80.6
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	84.2
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	69.1
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	26
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	100
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	26
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	26
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	26
R202309-10	DPT-020 (18-19)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	89.6
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	28
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	79.5
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	80.5

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202309-08	ug/kg dry	36	13	18	36	1	U	U	6/4/2020	6/4/2020
R202309-08	ug/kg dry	36	10	18	36	1	U	U	6/4/2020	6/4/2020
R202309-08	ug/kg dry	36	5.9	18	36	1	U	U	6/4/2020	6/4/2020
R202309-08	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-09	ug/kg dry	29	6.6	14	29	1	U	UJ	6/4/2020	6/4/2020
R202309-09	ug/kg dry	29	9.3	14	29	1	U	UJ	6/4/2020	6/4/2020
R202309-09	ug/kg dry	29	5.2	14	29	1	U	UJ	6/4/2020	6/4/2020
R202309-09	% Recovery	1400	5.8	29	1400	1	U	U	6/4/2020	6/4/2020
R202309-09	% Recovery	0.58		0.29	0.58	1			6/4/2020	6/4/2020
R202309-09	% Recovery	1400	6.4	29	1400	1	U	U	6/4/2020	6/4/2020
R202309-09	ug/kg dry	29	6.7	14	29	1	U	UJ	6/4/2020	6/4/2020
R202309-09	ug/kg dry	120	8.1	14	120	1	U	UJ	6/4/2020	6/4/2020
R202309-09	ug/kg dry	29	11	14	29	1	U	UJ	6/4/2020	6/4/2020
R202309-09	ug/kg dry	29	8.5	14	29	1	U	UJ	6/4/2020	6/4/2020
R202309-09	ug/kg dry	29	4.8	14	29	1	U	UJ	6/4/2020	6/4/2020
R202309-09	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-10	ug/kg dry	26	5.9	13	26	1	U	UJ	6/4/2020	6/4/2020
R202309-10	ug/kg dry	26	8.2	13	26	1	U	UJ	6/4/2020	6/4/2020
R202309-10	ug/kg dry	26	4.6	13	26	1	U	UJ	6/4/2020	6/4/2020
R202309-10	% Recovery	1300	5.1	26	1300	1	U	U	6/4/2020	6/4/2020
R202309-10	% Recovery	0.51		0.26	0.51	1			6/4/2020	6/4/2020
R202309-10	% Recovery	1300	5.7	26	1300	1	U	U	6/4/2020	6/4/2020
R202309-10	ug/kg dry	26	6	13	26	1	U	UJ	6/4/2020	6/4/2020
R202309-10	ug/kg dry	100	7.2	13	100	1	U	UJ	6/4/2020	6/4/2020
R202309-10	ug/kg dry	26	9.6	13	26	1	U	UJ	6/4/2020	6/4/2020
R202309-10	ug/kg dry	26	7.5	13	26	1	U	UJ	6/4/2020	6/4/2020
R202309-10	ug/kg dry	26	4.2	13	26	1	U	UJ	6/4/2020	6/4/2020
R202309-10	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-11	ug/kg dry	28	6.3	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-11	ug/kg dry	28	8.8	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-11	ug/kg dry	28	5	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-11	% Recovery	1400	5.5	28	1400	1	U	U	6/4/2020	6/4/2020
R202309-11	% Recovery	0.55		0.28	0.55	1			6/4/2020	6/4/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	69.8
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	28
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	110
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	28
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	28
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	28
R202309-11	DPT-020 (14-15)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	90.5
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	28
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	83.4
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	85.1
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	73.4
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	28
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	110
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	28
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	28
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	32
R202309-12	DUP-06	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	90.5
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	32
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	32
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	32
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	78.6
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	80
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	71.1
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	32
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	130
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	32
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	32
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	32
R202309-13	DPT-020 (5-6)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	82.5
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	29
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	29

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202309-11	% Recovery	1400	6.1	28	1400	1	U	U	6/4/2020	6/4/2020
R202309-11	ug/kg dry	28	6.4	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-11	ug/kg dry	110	7.7	14	110	1	U	UJ	6/4/2020	6/4/2020
R202309-11	ug/kg dry	28	10	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-11	ug/kg dry	28	8	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-11	ug/kg dry	28	4.5	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-11	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-12	ug/kg dry	28	6.4	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-12	ug/kg dry	28	9	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-12	ug/kg dry	28	5.1	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-12	% Recovery	1400	5.7	28	1400	1	U	U	6/4/2020	6/4/2020
R202309-12	% Recovery	0.57		0.28	0.57	1			6/4/2020	6/4/2020
R202309-12	% Recovery	1400	6.2	28	1400	1	U	U	6/4/2020	6/4/2020
R202309-12	ug/kg dry	28	6.6	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-12	ug/kg dry	110	7.9	14	110	1	U	UJ	6/4/2020	6/4/2020
R202309-12	ug/kg dry	28	11	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-12	ug/kg dry	28	8.3	14	28	1	U	UJ	6/4/2020	6/4/2020
R202309-12	ug/kg dry	28	4.6	14	28	1		J-	6/4/2020	6/4/2020
R202309-12	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-13	ug/kg dry	32	7.2	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-13	ug/kg dry	32	10	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-13	ug/kg dry	32	5.7	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-13	% Recovery	1600	6.3	32	1600	1	U	U	6/4/2020	6/4/2020
R202309-13	% Recovery	0.63		0.32	0.63	1			6/4/2020	6/4/2020
R202309-13	% Recovery	1600	7	32	1600	1	U	U	6/4/2020	6/4/2020
R202309-13	ug/kg dry	32	7.3	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-13	ug/kg dry	130	8.9	16	130	1	U	UJ	6/4/2020	6/4/2020
R202309-13	ug/kg dry	32	12	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-13	ug/kg dry	32	9.2	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-13	ug/kg dry	32	5.2	16	32	1	U	UJ	6/4/2020	6/4/2020
R202309-13	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-14	ug/kg dry	29	6.5	14	29	1	U	U	6/4/2020	6/5/2020
R202309-14	ug/kg dry	29	9.1	14	29	1	U	U	6/4/2020	6/5/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	92.4
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.9
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.6
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	29
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	110
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	29
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	29
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	29
R202309-14	DPT-021 (6-7)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	87.8
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	29
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	94.3
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	97.4
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	29
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	110
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	29
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	29
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	29
R202309-15	DPT-021 (10-11)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	89.2
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	38
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	38
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	38
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	94.6
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	95.4
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.2
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	38
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	150
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	38
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	38
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	38

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202309-14	ug/kg dry	29	5.1	14	29	1	U	U	6/4/2020	6/5/2020
R202309-14	% Recovery	1400	5.7	29	1400	1	U	U	6/4/2020	6/5/2020
R202309-14	% Recovery	0.57		0.29	0.57	1			6/4/2020	6/5/2020
R202309-14	% Recovery	1400	6.3	29	1400	1	U	U	6/4/2020	6/5/2020
R202309-14	ug/kg dry	29	6.6	14	29	1	U	U	6/4/2020	6/5/2020
R202309-14	ug/kg dry	110	8	14	110	1	U	U	6/4/2020	6/5/2020
R202309-14	ug/kg dry	29	11	14	29	1	U	U	6/4/2020	6/5/2020
R202309-14	ug/kg dry	29	8.3	14	29	1	U	U	6/4/2020	6/5/2020
R202309-14	ug/kg dry	29	4.7	14	29	1	U	U	6/4/2020	6/5/2020
R202309-14	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-15	ug/kg dry	29	6.5	14	29	1	U	U	6/4/2020	6/5/2020
R202309-15	ug/kg dry	29	9.1	14	29	1	U	U	6/4/2020	6/5/2020
R202309-15	ug/kg dry	29	5.1	14	29	1	U	U	6/4/2020	6/5/2020
R202309-15	% Recovery	1400	5.7	29	1400	1	U	U	6/4/2020	6/5/2020
R202309-15	% Recovery	0.57		0.29	0.57	1			6/4/2020	6/5/2020
R202309-15	% Recovery	1400	6.3	29	1400	1	U	U	6/4/2020	6/5/2020
R202309-15	ug/kg dry	29	6.6	14	29	1	U	U	6/4/2020	6/5/2020
R202309-15	ug/kg dry	110	8	14	110	1	U	U	6/4/2020	6/5/2020
R202309-15	ug/kg dry	29	11	14	29	1	U	U	6/4/2020	6/5/2020
R202309-15	ug/kg dry	29	8.3	14	29	1	U	U	6/4/2020	6/5/2020
R202309-15	ug/kg dry	29	4.7	14	29	1	U	U	6/4/2020	6/5/2020
R202309-15	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-16	ug/kg dry	38	8.6	19	38	1	U	U	6/4/2020	6/5/2020
R202309-16	ug/kg dry	38	12	19	38	1	U	U	6/4/2020	6/5/2020
R202309-16	ug/kg dry	38	6.8	19	38	1	U	U	6/4/2020	6/5/2020
R202309-16	% Recovery	1900	7.5	38	1900	1	U	U	6/4/2020	6/5/2020
R202309-16	% Recovery	0.75		0.38	0.75	1			6/4/2020	6/5/2020
R202309-16	% Recovery	1900	8.3	38	1900	1	U	U	6/4/2020	6/5/2020
R202309-16	ug/kg dry	38	8.7	19	38	1	U	U	6/4/2020	6/5/2020
R202309-16	ug/kg dry	150	11	19	150	1	U	U	6/4/2020	6/5/2020
R202309-16	ug/kg dry	38	14	19	38	1	U	U	6/4/2020	6/5/2020
R202309-16	ug/kg dry	38	11	19	38	1	U	U	6/4/2020	6/5/2020
R202309-16	ug/kg dry	38	6.2	19	38	1	U	U	6/4/2020	6/5/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202309-16	DUP-07	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	88.2
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	30
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	30
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	71.1
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	70.9
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	65.2
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	30
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	120
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	30
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	30
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	30
R202309-17	DPT-021 (19-20)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	88.2
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	127-18-4	Y	Tetrachloroethene	31
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	156-59-2	Y	cis-1,2-Dichloroethene	37
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	156-60-5	Y	trans-1,2-Dichloroethene	31
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	2037-26-5	Y	Toluene-d8 (surr)	95.8
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	98.6
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87.9
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	75-01-4	Y	Vinyl chloride	31
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	75-09-2	Y	Methylene chloride	120
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	75-34-3	Y	1,1-Dichloroethane	31
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	75-35-4	Y	1,1-Dichloroethene	31
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	79-01-6	Y	Trichloroethene	120
R202309-18	DPT-021 (23-24)	Soil	6/4/2020	6/4/2020	NA	Y	% Solids	81.4
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	127-18-4	Y	Tetrachloroethene	26
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	2037-26-5	Y	Toluene-d8 (surr)	90.5
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	92.4
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	79.2
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	75-01-4	Y	Vinyl chloride	26
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	75-09-2	Y	Methylene chloride	100

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202309-16	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-17	ug/kg dry	30	6.9	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-17	ug/kg dry	30	9.6	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-17	ug/kg dry	30	5.4	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-17	% Recovery	1500	6	30	1500	1	U	U	6/4/2020	6/5/2020
R202309-17	% Recovery	0.6		0.3	0.6	1	S		6/4/2020	6/5/2020
R202309-17	% Recovery	1500	6.6	30	1500	1	U	U	6/4/2020	6/5/2020
R202309-17	ug/kg dry	30	7	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-17	ug/kg dry	120	8.4	15	120	1	U	UJ	6/4/2020	6/5/2020
R202309-17	ug/kg dry	30	11	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-17	ug/kg dry	30	8.8	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-17	ug/kg dry	30	4.9	15	30	1	U	UJ	6/4/2020	6/5/2020
R202309-17	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202309-18	ug/kg dry	31	7	15	31	1	U	U	6/4/2020	6/5/2020
R202309-18	ug/kg dry	31	9.8	15	31	1			6/4/2020	6/5/2020
R202309-18	ug/kg dry	31	5.5	15	31	1	U	U	6/4/2020	6/5/2020
R202309-18	% Recovery	1500	6.1	31	1500	1	U	U	6/4/2020	6/5/2020
R202309-18	% Recovery	0.61		0.31	0.61	1			6/4/2020	6/5/2020
R202309-18	% Recovery	1500	6.8	31	1500	1	U	U	6/4/2020	6/5/2020
R202309-18	ug/kg dry	31	7.1	15	31	1	U	U	6/4/2020	6/5/2020
R202309-18	ug/kg dry	120	8.6	15	120	1	U	U	6/4/2020	6/5/2020
R202309-18	ug/kg dry	31	11	15	31	1	U	U	6/4/2020	6/5/2020
R202309-18	ug/kg dry	31	9	15	31	1	U	U	6/4/2020	6/5/2020
R202309-18	ug/kg dry	31	5	15	31	1			6/4/2020	6/5/2020
R202309-18	% by Weight	0	0		0	1			6/4/2020	6/5/2020
R202310-01	ug/kg dry	26	5.9	13	26	1	U	U	6/5/2020	6/5/2020
R202310-01	ug/kg dry	26	8.3	13	26	1	U	U	6/5/2020	6/5/2020
R202310-01	ug/kg dry	26	4.7	13	26	1	U	U	6/5/2020	6/5/2020
R202310-01	% Recovery	1300	5.2	26	1300	1	U	U	6/5/2020	6/5/2020
R202310-01	% Recovery	0.52		0.26	0.52	1			6/5/2020	6/5/2020
R202310-01	% Recovery	1300	5.7	26	1300	1	U	U	6/5/2020	6/5/2020
R202310-01	ug/kg dry	26	6.1	13	26	1	U	U	6/5/2020	6/5/2020
R202310-01	ug/kg dry	100	7.3	13	100	1	U	U	6/5/2020	6/5/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	75-34-3	Y	1,1-Dichloroethane	26
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	75-35-4	Y	1,1-Dichloroethene	26
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	79-01-6	Y	Trichloroethene	26
R202310-01	DPT-022 (5-6)	Soil	6/5/2020	6/5/2020	NA	Y	% Solids	86.6
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	127-18-4	Y	Tetrachloroethene	29
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	2037-26-5	Y	Toluene-d8 (surr)	96.5
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	97.5
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.9
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	75-01-4	Y	Vinyl chloride	29
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	75-09-2	Y	Methylene chloride	110
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	75-34-3	Y	1,1-Dichloroethane	29
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	75-35-4	Y	1,1-Dichloroethene	29
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	79-01-6	Y	Trichloroethene	29
R202310-02	DPT-022 (14-15)	Soil	6/5/2020	6/5/2020	NA	Y	% Solids	86.9
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	127-18-4	Y	Tetrachloroethene	28
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	2037-26-5	Y	Toluene-d8 (surr)	93.5
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	95.3
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.3
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	75-01-4	Y	Vinyl chloride	28
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	75-09-2	Y	Methylene chloride	110
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	75-34-3	Y	1,1-Dichloroethane	28
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	75-35-4	Y	1,1-Dichloroethene	28
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	79-01-6	Y	Trichloroethene	29
R202310-03	DPT-022 (8-9)	Soil	6/5/2020	6/5/2020	NA	Y	% Solids	88.8
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	127-18-4	Y	Tetrachloroethene	25
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	156-59-2	Y	cis-1,2-Dichloroethene	25
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	156-60-5	Y	trans-1,2-Dichloroethene	25
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	2037-26-5	Y	Toluene-d8 (surr)	89.2
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	89.9

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202310-01	ug/kg dry	26	9.7	13	26	1	U	U	6/5/2020	6/5/2020
R202310-01	ug/kg dry	26	7.6	13	26	1	U	U	6/5/2020	6/5/2020
R202310-01	ug/kg dry	26	4.3	13	26	1	U	U	6/5/2020	6/5/2020
R202310-01	% by Weight	0	0		0	1			6/5/2020	6/7/2020
R202310-02	ug/kg dry	29	6.6	14	29	1	U	U	6/5/2020	6/7/2020
R202310-02	ug/kg dry	29	9.2	14	29	1	U	U	6/5/2020	6/7/2020
R202310-02	ug/kg dry	29	5.2	14	29	1	U	U	6/5/2020	6/7/2020
R202310-02	% Recovery	1400	5.7	29	1400	1	U	U	6/5/2020	6/7/2020
R202310-02	% Recovery	0.57		0.29	0.57	1			6/5/2020	6/7/2020
R202310-02	% Recovery	1400	6.3	29	1400	1	U	U	6/5/2020	6/7/2020
R202310-02	ug/kg dry	29	6.7	14	29	1	U	U	6/5/2020	6/7/2020
R202310-02	ug/kg dry	110	8	14	110	1	U	U	6/5/2020	6/7/2020
R202310-02	ug/kg dry	29	11	14	29	1	U	U	6/5/2020	6/7/2020
R202310-02	ug/kg dry	29	8.4	14	29	1	U	U	6/5/2020	6/7/2020
R202310-02	ug/kg dry	29	4.7	14	29	1	U	U	6/5/2020	6/7/2020
R202310-02	% by Weight	0	0		0	1			6/5/2020	6/7/2020
R202310-03	ug/kg dry	28	6.4	14	28	1	U	U	6/5/2020	6/5/2020
R202310-03	ug/kg dry	28	9	14	28	1	U	U	6/5/2020	6/5/2020
R202310-03	ug/kg dry	28	5.1	14	28	1	U	U	6/5/2020	6/5/2020
R202310-03	% Recovery	1400	5.6	28	1400	1	U	U	6/5/2020	6/5/2020
R202310-03	% Recovery	0.56		0.28	0.56	1			6/5/2020	6/5/2020
R202310-03	% Recovery	1400	6.2	28	1400	1	U	U	6/5/2020	6/5/2020
R202310-03	ug/kg dry	28	6.5	14	28	1	U	U	6/5/2020	6/5/2020
R202310-03	ug/kg dry	110	7.9	14	110	1	U	U	6/5/2020	6/5/2020
R202310-03	ug/kg dry	28	10	14	28	1	U	U	6/5/2020	6/5/2020
R202310-03	ug/kg dry	28	8.2	14	28	1	U	U	6/5/2020	6/5/2020
R202310-03	ug/kg dry	28	4.6	14	28	1			6/5/2020	6/5/2020
R202310-03	% by Weight	0	0		0	1			6/5/2020	6/7/2020
R202310-04	ug/kg dry	25	5.7	12	25	1	U	U	6/5/2020	6/5/2020
R202310-04	ug/kg dry	25	8	12	25	1	U	U	6/5/2020	6/5/2020
R202310-04	ug/kg dry	25	4.5	12	25	1	U	U	6/5/2020	6/5/2020
R202310-04	% Recovery	1200	5	25	1200	1	U	U	6/5/2020	6/5/2020
R202310-04	% Recovery	0.5		0.25	0.5	1			6/5/2020	6/5/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	75.9
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	75-01-4	Y	Vinyl chloride	25
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	75-09-2	Y	Methylene chloride	99
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	75-34-3	Y	1,1-Dichloroethane	25
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	75-35-4	Y	1,1-Dichloroethene	25
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	79-01-6	Y	Trichloroethene	100
R202310-04	DPT-022 (20-21)	Soil	6/5/2020	6/5/2020	NA	Y	% Solids	86.7
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	127-18-4	Y	Tetrachloroethene	35
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	156-59-2	Y	cis-1,2-Dichloroethene	35
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	156-60-5	Y	trans-1,2-Dichloroethene	35
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	2037-26-5	Y	Toluene-d8 (surr)	96.9
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.1
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.6
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	75-01-4	Y	Vinyl chloride	35
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	75-09-2	Y	Methylene chloride	140
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	75-34-3	Y	1,1-Dichloroethane	35
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	75-35-4	Y	1,1-Dichloroethene	35
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	79-01-6	Y	Trichloroethene	35
R202310-05	DPT-027 (8-9)	Soil	6/5/2020	6/5/2020	NA	Y	% Solids	89.6
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	127-18-4	Y	Tetrachloroethene	34
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	156-59-2	Y	cis-1,2-Dichloroethene	34
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	156-60-5	Y	trans-1,2-Dichloroethene	34
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	2037-26-5	Y	Toluene-d8 (surr)	99.3
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	101
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	89.2
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	75-01-4	Y	Vinyl chloride	34
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	75-09-2	Y	Methylene chloride	140
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	75-34-3	Y	1,1-Dichloroethane	34
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	75-35-4	Y	1,1-Dichloroethene	34
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	79-01-6	Y	Trichloroethene	34
R202310-06	DPT-027 (11-12)	Soil	6/5/2020	6/5/2020	NA	Y	% Solids	93.6
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	127-18-4	Y	Tetrachloroethene	27
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	156-59-2	Y	cis-1,2-Dichloroethene	27

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202310-04	% Recovery	1200	5.5	25	1200	1	U	U	6/5/2020	6/5/2020
R202310-04	ug/kg dry	25	5.8	12	25	1	U	U	6/5/2020	6/5/2020
R202310-04	ug/kg dry	99	7	12	99	1	U	U	6/5/2020	6/5/2020
R202310-04	ug/kg dry	25	9.2	12	25	1	U	U	6/5/2020	6/5/2020
R202310-04	ug/kg dry	25	7.3	12	25	1	U	U	6/5/2020	6/5/2020
R202310-04	ug/kg dry	25	4.1	12	25	1			6/5/2020	6/5/2020
R202310-04	% by Weight	0	0		0	1			6/5/2020	6/7/2020
R202310-05	ug/kg dry	35	7.9	17	35	1	U	U	6/5/2020	6/6/2020
R202310-05	ug/kg dry	35	11	17	35	1	U	U	6/5/2020	6/6/2020
R202310-05	ug/kg dry	35	6.2	17	35	1	U	U	6/5/2020	6/6/2020
R202310-05	% Recovery	1700	6.9	35	1700	1	U	U	6/5/2020	6/6/2020
R202310-05	% Recovery	0.69		0.35	0.69	1			6/5/2020	6/6/2020
R202310-05	% Recovery	1700	7.6	35	1700	1	U	U	6/5/2020	6/6/2020
R202310-05	ug/kg dry	35	8	17	35	1	U	U	6/5/2020	6/6/2020
R202310-05	ug/kg dry	140	9.7	17	140	1	U	U	6/5/2020	6/6/2020
R202310-05	ug/kg dry	35	13	17	35	1	U	U	6/5/2020	6/6/2020
R202310-05	ug/kg dry	35	10	17	35	1	U	U	6/5/2020	6/6/2020
R202310-05	ug/kg dry	35	5.7	17	35	1	U	U	6/5/2020	6/6/2020
R202310-05	% by Weight	0	0		0	1			6/5/2020	6/7/2020
R202310-06	ug/kg dry	34	7.8	17	34	1	U	U	6/5/2020	6/6/2020
R202310-06	ug/kg dry	34	11	17	34	1	U	U	6/5/2020	6/6/2020
R202310-06	ug/kg dry	34	6.1	17	34	1	U	U	6/5/2020	6/6/2020
R202310-06	% Recovery	1700	6.8	34	1700	1	U	U	6/5/2020	6/6/2020
R202310-06	% Recovery	0.68		0.34	0.68	1			6/5/2020	6/6/2020
R202310-06	% Recovery	1700	7.5	34	1700	1	U	U	6/5/2020	6/6/2020
R202310-06	ug/kg dry	34	7.9	17	34	1	U	U	6/5/2020	6/6/2020
R202310-06	ug/kg dry	140	9.6	17	140	1	U	U	6/5/2020	6/6/2020
R202310-06	ug/kg dry	34	13	17	34	1	U	U	6/5/2020	6/6/2020
R202310-06	ug/kg dry	34	10	17	34	1	U	U	6/5/2020	6/6/2020
R202310-06	ug/kg dry	34	5.6	17	34	1	U	U	6/5/2020	6/6/2020
R202310-06	% by Weight	0	0		0	1			6/5/2020	6/7/2020
R202310-07	ug/kg dry	27	6.2	14	27	1	U	UJ	6/5/2020	6/6/2020
R202310-07	ug/kg dry	27	8.7	14	27	1	U	UJ	6/5/2020	6/6/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	2037-26-5	Y	Toluene-d8 (surr)	84.3
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	86
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	73.6
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	75-01-4	Y	Vinyl chloride	27
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	75-09-2	Y	Methylene chloride	110
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	75-34-3	Y	1,1-Dichloroethane	27
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	75-35-4	Y	1,1-Dichloroethene	27
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	79-01-6	Y	Trichloroethene	27
R202310-07	DPT-027 (2-3)	Soil	6/5/2020	6/5/2020	NA	Y	% Solids	82.9
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	127-18-4	Y	Tetrachloroethene	30
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	156-59-2	Y	cis-1,2-Dichloroethene	30
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	2037-26-5	Y	Toluene-d8 (surr)	97.6
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	100
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	75-01-4	Y	Vinyl chloride	30
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	75-09-2	Y	Methylene chloride	120
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	75-34-3	Y	1,1-Dichloroethane	30
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	75-35-4	Y	1,1-Dichloroethene	30
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	79-01-6	Y	Trichloroethene	30
R202310-08	DPT-027 (5-6)	Soil	6/5/2020	6/5/2020	NA	Y	% Solids	87.9
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	107-06-2	Y	1,2-Dichloroethane	100
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	127-18-4	Y	Tetrachloroethene	100
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	156-59-2	Y	cis-1,2-Dichloroethene	410
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	156-60-5	Y	trans-1,2-Dichloroethene	100
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	2037-26-5	Y	Toluene-d8 (surr)	91.6
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.8
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	83.8
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	75-01-4	Y	Vinyl chloride	100
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	75-09-2	Y	Methylene chloride	400
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	75-35-4	Y	1,1-Dichloroethene	100
R202311-01	DPT-021 (36)	Water	6/5/2020	6/5/2020	79-01-6	Y	Trichloroethene	5200

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202310-07	ug/kg dry	27	4.9	14	27	1	U	UJ	6/5/2020	6/6/2020
R202310-07	% Recovery	1400	5.5	27	1400	1	U	U	6/5/2020	6/6/2020
R202310-07	% Recovery	0.55		0.27	0.55	1			6/5/2020	6/6/2020
R202310-07	% Recovery	1400	6	27	1400	1	U	U	6/5/2020	6/6/2020
R202310-07	ug/kg dry	27	6.3	14	27	1	U	UJ	6/5/2020	6/6/2020
R202310-07	ug/kg dry	110	7.7	14	110	1	U	UJ	6/5/2020	6/6/2020
R202310-07	ug/kg dry	27	10	14	27	1	U	UJ	6/5/2020	6/6/2020
R202310-07	ug/kg dry	27	8	14	27	1	U	UJ	6/5/2020	6/6/2020
R202310-07	ug/kg dry	27	4.5	14	27	1	U	UJ	6/5/2020	6/6/2020
R202310-07	% by Weight	0	0		0	1			6/5/2020	6/7/2020
R202310-08	ug/kg dry	30	6.8	15	30	1	U	U	6/5/2020	6/6/2020
R202310-08	ug/kg dry	30	9.5	15	30	1	U	U	6/5/2020	6/6/2020
R202310-08	ug/kg dry	30	5.4	15	30	1	U	U	6/5/2020	6/6/2020
R202310-08	% Recovery	1500	6	30	1500	1	U	U	6/5/2020	6/6/2020
R202310-08	% Recovery	0.6		0.3	0.6	1			6/5/2020	6/6/2020
R202310-08	% Recovery	1500	6.6	30	1500	1	U	U	6/5/2020	6/6/2020
R202310-08	ug/kg dry	30	6.9	15	30	1	U	U	6/5/2020	6/6/2020
R202310-08	ug/kg dry	120	8.4	15	120	1	U	U	6/5/2020	6/6/2020
R202310-08	ug/kg dry	30	11	15	30	1	U	U	6/5/2020	6/6/2020
R202310-08	ug/kg dry	30	8.7	15	30	1	U	U	6/5/2020	6/6/2020
R202310-08	ug/kg dry	30	4.9	15	30	1	U	U	6/5/2020	6/6/2020
R202310-08	% by Weight	0	0		0	1			6/5/2020	6/7/2020
R202311-01	ug/L	100	16	50	100	200	U	U	6/5/2020	6/6/2020
R202311-01	ug/L	100	16	50	100	200	U	U	6/5/2020	6/6/2020
R202311-01	ug/L	100	22	50	100	200	D		6/5/2020	6/6/2020
R202311-01	ug/L	100	22	50	100	200	U	U	6/5/2020	6/6/2020
R202311-01	% Recovery	0.5	0.19	0.25	0.5	1			6/5/2020	6/6/2020
R202311-01	% Recovery	0.5		0.25	0.5	1			6/5/2020	6/6/2020
R202311-01	% Recovery	0.5	0.24	0.25	0.5	1			6/5/2020	6/6/2020
R202311-01	ug/L	100	32	50	100	200	U	U	6/5/2020	6/6/2020
R202311-01	ug/L	400	28	50	400	200	U	U	6/5/2020	6/6/2020
R202311-01	ug/L	100	28	50	100	200	U	U	6/5/2020	6/6/2020
R202311-01	ug/L	100	12	25	100	200	D		6/5/2020	6/6/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	107-06-2	Y	1,2-Dichloroethane	100
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	127-18-4	Y	Tetrachloroethene	100
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	156-59-2	Y	cis-1,2-Dichloroethene	570
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	156-60-5	Y	trans-1,2-Dichloroethene	100
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	2037-26-5	Y	Toluene-d8 (surr)	94.3
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	95.5
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	83.1
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	75-01-4	Y	Vinyl chloride	100
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	75-09-2	Y	Methylene chloride	400
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	75-35-4	Y	1,1-Dichloroethene	100
R202311-02	DPT-020 (44)	Water	6/5/2020	6/5/2020	79-01-6	Y	Trichloroethene	7400
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	35
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	35
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	35
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	92.4
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	97.5
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	82.2
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	75-01-4	Y	Vinyl chloride	35
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	75-09-2	Y	Methylene chloride	140
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	35
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	35
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	79-01-6	Y	Trichloroethene	35
R202401-01	DPT-026 (3-4)	Soil	6/7/2020	6/8/2020	NA	Y	% Solids	80.4
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	27
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	27
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	91.1
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	95.7
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	80.3
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	75-01-4	Y	Vinyl chloride	27
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	75-09-2	Y	Methylene chloride	110
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	27
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	27

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202311-02	ug/L	100	16	50	100	200	U	U	6/5/2020	6/6/2020
R202311-02	ug/L	100	16	50	100	200	U	U	6/5/2020	6/6/2020
R202311-02	ug/L	100	22	50	100	200	D		6/5/2020	6/6/2020
R202311-02	ug/L	100	22	50	100	200	U	U	6/5/2020	6/6/2020
R202311-02	% Recovery	0.5	0.19	0.25	0.5	1			6/5/2020	6/6/2020
R202311-02	% Recovery	0.5		0.25	0.5	1			6/5/2020	6/6/2020
R202311-02	% Recovery	0.5	0.24	0.25	0.5	1			6/5/2020	6/6/2020
R202311-02	ug/L	100	32	50	100	200	U	U	6/5/2020	6/6/2020
R202311-02	ug/L	400	28	50	400	200	U	U	6/5/2020	6/6/2020
R202311-02	ug/L	100	28	50	100	200	U	U	6/5/2020	6/6/2020
R202311-02	ug/L	100	12	25	100	200	D		6/5/2020	6/6/2020
R202401-01	ug/kg dry	35	7.9	17	35	1	U	U	6/8/2020	6/8/2020
R202401-01	ug/kg dry	35	11	17	35	1	U	U	6/8/2020	6/8/2020
R202401-01	ug/kg dry	35	6.2	17	35	1	U	U	6/8/2020	6/8/2020
R202401-01	% Recovery	1700	6.9	35	1700	1	U	U	6/8/2020	6/8/2020
R202401-01	% Recovery	0.69		0.35	0.69	1			6/8/2020	6/8/2020
R202401-01	% Recovery	1700	7.6	35	1700	1	U	U	6/8/2020	6/8/2020
R202401-01	ug/kg dry	35	8	17	35	1	U	U	6/8/2020	6/8/2020
R202401-01	ug/kg dry	140	9.7	17	140	1	U	U	6/8/2020	6/8/2020
R202401-01	ug/kg dry	35	13	17	35	1	U	U	6/8/2020	6/8/2020
R202401-01	ug/kg dry	35	10	17	35	1	U	U	6/8/2020	6/8/2020
R202401-01	ug/kg dry	35	5.7	17	35	1	U	U	6/8/2020	6/8/2020
R202401-01	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202401-02	ug/kg dry	27	6.1	13	27	1	U	U	6/8/2020	6/8/2020
R202401-02	ug/kg dry	27	8.5	13	27	1	U	U	6/8/2020	6/8/2020
R202401-02	ug/kg dry	27	4.8	13	27	1	U	U	6/8/2020	6/8/2020
R202401-02	% Recovery	1300	5.3	27	1300	1	U	U	6/8/2020	6/8/2020
R202401-02	% Recovery	0.53		0.27	0.53	1			6/8/2020	6/8/2020
R202401-02	% Recovery	1300	5.9	27	1300	1	U	U	6/8/2020	6/8/2020
R202401-02	ug/kg dry	27	6.2	13	27	1	U	U	6/8/2020	6/8/2020
R202401-02	ug/kg dry	110	7.5	13	110	1	U	U	6/8/2020	6/8/2020
R202401-02	ug/kg dry	27	9.9	13	27	1	U	U	6/8/2020	6/8/2020
R202401-02	ug/kg dry	27	7.8	13	27	1	U	U	6/8/2020	6/8/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	79-01-6	Y	Trichloroethene	27
R202401-02	DPT-026 (16-17)	Soil	6/7/2020	6/8/2020	NA	Y	% Solids	84.9
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	33
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	33
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	33
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	82.3
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	85.6
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	73.7
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	75-01-4	Y	Vinyl chloride	33
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	75-09-2	Y	Methylene chloride	130
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	33
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	33
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	79-01-6	Y	Trichloroethene	33
R202401-03	DPT-026 (17-18)	Soil	6/7/2020	6/8/2020	NA	Y	% Solids	86.7
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	30
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	37
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	94.8
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	93.5
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	83.1
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	75-01-4	Y	Vinyl chloride	30
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	75-09-2	Y	Methylene chloride	120
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	30
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	30
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	79-01-6	Y	Trichloroethene	69
R202401-04	DPT-026 (26-27)	Soil	6/7/2020	6/8/2020	NA	Y	% Solids	82.3
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	26
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	95.7
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.9
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	82.3
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	75-01-4	Y	Vinyl chloride	26

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202401-02	ug/kg dry	27	4.4	13	27	1	U	U	6/8/2020	6/8/2020
R202401-02	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202401-03	ug/kg dry	33	7.6	17	33	1	U	UJ	6/8/2020	6/8/2020
R202401-03	ug/kg dry	33	11	17	33	1	U	UJ	6/8/2020	6/8/2020
R202401-03	ug/kg dry	33	6	17	33	1	U	UJ	6/8/2020	6/8/2020
R202401-03	% Recovery	1700	6.7	33	1700	1	U	U	6/8/2020	6/8/2020
R202401-03	% Recovery	0.67		0.33	0.67	1			6/8/2020	6/8/2020
R202401-03	% Recovery	1700	7.3	33	1700	1	U	U	6/8/2020	6/8/2020
R202401-03	ug/kg dry	33	7.7	17	33	1	U	UJ	6/8/2020	6/8/2020
R202401-03	ug/kg dry	130	9.3	17	130	1	U	UJ	6/8/2020	6/8/2020
R202401-03	ug/kg dry	33	12	17	33	1	U	UJ	6/8/2020	6/8/2020
R202401-03	ug/kg dry	33	9.7	17	33	1	U	UJ	6/8/2020	6/8/2020
R202401-03	ug/kg dry	33	5.5	17	33	1	U	UJ	6/8/2020	6/8/2020
R202401-03	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202401-04	ug/kg dry	30	6.9	15	30	1	U	U	6/8/2020	6/8/2020
R202401-04	ug/kg dry	30	9.6	15	30	1			6/8/2020	6/8/2020
R202401-04	ug/kg dry	30	5.4	15	30	1	U	U	6/8/2020	6/8/2020
R202401-04	% Recovery	1500	6	30	1500	1	U	U	6/8/2020	6/8/2020
R202401-04	% Recovery	0.6		0.3	0.6	1			6/8/2020	6/8/2020
R202401-04	% Recovery	1500	6.6	30	1500	1	U	U	6/8/2020	6/8/2020
R202401-04	ug/kg dry	30	7	15	30	1	U	U	6/8/2020	6/8/2020
R202401-04	ug/kg dry	120	8.4	15	120	1	U	U	6/8/2020	6/8/2020
R202401-04	ug/kg dry	30	11	15	30	1	U	U	6/8/2020	6/8/2020
R202401-04	ug/kg dry	30	8.8	15	30	1	U	U	6/8/2020	6/8/2020
R202401-04	ug/kg dry	30	4.9	15	30	1			6/8/2020	6/8/2020
R202401-04	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202401-05	ug/kg dry	26	6	13	26	1	U	U	6/8/2020	6/8/2020
R202401-05	ug/kg dry	26	8.4	13	26	1	U	U	6/8/2020	6/8/2020
R202401-05	ug/kg dry	26	4.7	13	26	1	U	U	6/8/2020	6/8/2020
R202401-05	% Recovery	1300	5.2	26	1300	1	U	U	6/8/2020	6/8/2020
R202401-05	% Recovery	0.52		0.26	0.52	1			6/8/2020	6/8/2020
R202401-05	% Recovery	1300	5.8	26	1300	1	U	U	6/8/2020	6/8/2020
R202401-05	ug/kg dry	26	6.1	13	26	1	U	U	6/8/2020	6/8/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	75-09-2	Y	Methylene chloride	100
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	26
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	26
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	79-01-6	Y	Trichloroethene	26
R202401-05	DPT-023 (2-3)	Soil	6/7/2020	6/8/2020	NA	Y	% Solids	92
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	27
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	27
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	122
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	112
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	102
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	75-01-4	Y	Vinyl chloride	27
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	75-09-2	Y	Methylene chloride	110
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	27
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	27
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	79-01-6	Y	Trichloroethene	27
R202401-06	DPT-023 (4-5)	Soil	6/7/2020	6/8/2020	NA	Y	% Solids	90.4
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	33
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	33
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	33
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	91.7
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	92.8
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	76.9
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	75-01-4	Y	Vinyl chloride	33
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	75-09-2	Y	Methylene chloride	130
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	33
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	33
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	79-01-6	Y	Trichloroethene	33
R202401-07	DPT-023 (7-8)	Soil	6/7/2020	6/8/2020	NA	Y	% Solids	93.6
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	31
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	31
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	31
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	97.5

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202401-05	ug/kg dry	100	7.3	13	100	1	U	U	6/8/2020	6/8/2020
R202401-05	ug/kg dry	26	9.8	13	26	1	U	U	6/8/2020	6/8/2020
R202401-05	ug/kg dry	26	7.7	13	26	1	U	U	6/8/2020	6/8/2020
R202401-05	ug/kg dry	26	4.3	13	26	1	U	U	6/8/2020	6/8/2020
R202401-05	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202401-06	ug/kg dry	27	6.2	14	27	1	U	U	6/8/2020	6/9/2020
R202401-06	ug/kg dry	27	8.8	14	27	1	U	U	6/8/2020	6/9/2020
R202401-06	ug/kg dry	27	4.9	14	27	1	U	U	6/8/2020	6/9/2020
R202401-06	% Recovery	1400	5.5	27	1400	1	S, U	U	6/8/2020	6/9/2020
R202401-06	% Recovery	0.55		0.27	0.55	1			6/8/2020	6/9/2020
R202401-06	% Recovery	1400	6	27	1400	1	U	U	6/8/2020	6/9/2020
R202401-06	ug/kg dry	27	6.4	14	27	1	U	U	6/8/2020	6/9/2020
R202401-06	ug/kg dry	110	7.7	14	110	1	U	U	6/8/2020	6/9/2020
R202401-06	ug/kg dry	27	10	14	27	1	U	U	6/8/2020	6/9/2020
R202401-06	ug/kg dry	27	8	14	27	1	U	U	6/8/2020	6/9/2020
R202401-06	ug/kg dry	27	4.5	14	27	1	U	U	6/8/2020	6/9/2020
R202401-06	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202401-07	ug/kg dry	33	7.6	17	33	1	U	U	6/8/2020	6/8/2020
R202401-07	ug/kg dry	33	11	17	33	1	U	U	6/8/2020	6/8/2020
R202401-07	ug/kg dry	33	6	17	33	1	U	U	6/8/2020	6/8/2020
R202401-07	% Recovery	1700	6.6	33	1700	1	U	U	6/8/2020	6/8/2020
R202401-07	% Recovery	0.66		0.33	0.66	1			6/8/2020	6/8/2020
R202401-07	% Recovery	1700	7.3	33	1700	1	U	U	6/8/2020	6/8/2020
R202401-07	ug/kg dry	33	7.7	17	33	1	U	U	6/8/2020	6/8/2020
R202401-07	ug/kg dry	130	9.3	17	130	1	U	U	6/8/2020	6/8/2020
R202401-07	ug/kg dry	33	12	17	33	1	U	U	6/8/2020	6/8/2020
R202401-07	ug/kg dry	33	9.7	17	33	1	U	U	6/8/2020	6/8/2020
R202401-07	ug/kg dry	33	5.4	17	33	1	U	U	6/8/2020	6/8/2020
R202401-07	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202401-08	ug/kg dry	31	7.2	16	31	1	U	U	6/8/2020	6/8/2020
R202401-08	ug/kg dry	31	10	16	31	1	U	U	6/8/2020	6/8/2020
R202401-08	ug/kg dry	31	5.7	16	31	1	U	U	6/8/2020	6/8/2020
R202401-08	% Recovery	1600	6.3	31	1600	1	U	U	6/8/2020	6/8/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.6
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.9
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	75-01-4	Y	Vinyl chloride	31
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	75-09-2	Y	Methylene chloride	130
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	31
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	31
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	79-01-6	Y	Trichloroethene	31
R202401-08	DPT-023 (9-10)	Soil	6/7/2020	6/8/2020	NA	Y	% Solids	94.5
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	107-06-2	Y	1,2-Dichloroethane	100
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	100
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	1500
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	100
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	92
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	89.3
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	78.7
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	75-01-4	Y	Vinyl chloride	100
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	75-09-2	Y	Methylene chloride	400
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	100
R202402-01	DPT-022 (36)	Water	6/6/2020	6/8/2020	79-01-6	Y	Trichloroethene	66000
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	107-06-2	Y	1,2-Dichloroethane	100
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	100
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	340
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	100
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	93.1
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	95.8
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	77.8
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	75-01-4	Y	Vinyl chloride	100
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	75-09-2	Y	Methylene chloride	400
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	100
R202402-02	DPT-026 (45)	Water	6/8/2020	6/8/2020	79-01-6	Y	Trichloroethene	40000
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	107-06-2	Y	1,2-Dichloroethane	1000
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	1000
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	1400

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202401-08	% Recovery	0.63		0.31	0.63	1			6/8/2020	6/8/2020
R202401-08	% Recovery	1600	6.9	31	1600	1	U	U	6/8/2020	6/8/2020
R202401-08	ug/kg dry	31	7.3	16	31	1	U	U	6/8/2020	6/8/2020
R202401-08	ug/kg dry	130	8.8	16	130	1	U	U	6/8/2020	6/8/2020
R202401-08	ug/kg dry	31	12	16	31	1	U	U	6/8/2020	6/8/2020
R202401-08	ug/kg dry	31	9.2	16	31	1	U	U	6/8/2020	6/8/2020
R202401-08	ug/kg dry	31	5.2	16	31	1	U	U	6/8/2020	6/8/2020
R202401-08	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202402-01	ug/L	100	16	50	100	200	U	U	6/8/2020	6/8/2020
R202402-01	ug/L	100	16	50	100	200	U	U	6/8/2020	6/8/2020
R202402-01	ug/L	100	22	50	100	200	D		6/8/2020	6/8/2020
R202402-01	ug/L	100	22	50	100	200	U	U	6/8/2020	6/8/2020
R202402-01	% Recovery	0.5	0.19	0.25	0.5	1			6/8/2020	6/8/2020
R202402-01	% Recovery	0.5		0.25	0.5	1			6/8/2020	6/8/2020
R202402-01	% Recovery	0.5	0.24	0.25	0.5	1			6/8/2020	6/8/2020
R202402-01	ug/L	100	32	50	100	200	U	U	6/8/2020	6/8/2020
R202402-01	ug/L	400	28	50	400	200	U	U	6/8/2020	6/8/2020
R202402-01	ug/L	100	28	50	100	200	U	U	6/8/2020	6/8/2020
R202402-01	ug/L	1000	120	250	1000	2000	D		6/8/2020	6/9/2020
R202402-02	ug/L	100	16	50	100	200	U	U	6/8/2020	6/8/2020
R202402-02	ug/L	100	16	50	100	200	U	U	6/8/2020	6/8/2020
R202402-02	ug/L	100	22	50	100	200	D		6/8/2020	6/8/2020
R202402-02	ug/L	100	22	50	100	200	U	U	6/8/2020	6/8/2020
R202402-02	% Recovery	0.5	0.19	0.25	0.5	1			6/8/2020	6/8/2020
R202402-02	% Recovery	0.5		0.25	0.5	1			6/8/2020	6/8/2020
R202402-02	% Recovery	0.5	0.24	0.25	0.5	1	S		6/8/2020	6/8/2020
R202402-02	ug/L	100	32	50	100	200	U	U	6/8/2020	6/8/2020
R202402-02	ug/L	400	28	50	400	200	U	U	6/8/2020	6/8/2020
R202402-02	ug/L	100	28	50	100	200	U	U	6/8/2020	6/8/2020
R202402-02	ug/L	1000	120	250	1000	2000	D		6/8/2020	6/9/2020
R202402-03	ug/L	1000	160	500	1000	2000	U	U	6/8/2020	6/9/2020
R202402-03	ug/L	1000	160	500	1000	2000	U	U	6/8/2020	6/9/2020
R202402-03	ug/L	1000	220	500	1000	2000	D		6/8/2020	6/9/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	1000
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	93.1
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	100
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.4
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	75-01-4	Y	Vinyl chloride	1000
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	75-09-2	Y	Methylene chloride	4000
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	1000
R202402-03	DPT-026 (36)	Water	6/8/2020	6/8/2020	79-01-6	Y	Trichloroethene	14000
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	107-06-2	Y	1,2-Dichloroethane	100
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	100
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	100
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	100
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	94.4
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.9
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	79.1
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	75-01-4	Y	Vinyl chloride	100
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	75-09-2	Y	Methylene chloride	400
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	100
R202402-04	DPT-023 (42)	Water	6/8/2020	6/8/2020	79-01-6	Y	Trichloroethene	4400
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	0.5
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	93.1
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.9
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	80
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	75-01-4	Y	Vinyl chloride	0.5
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	75-09-2	Y	Methylene chloride	2
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202402-05	DPT-024 (44)	Water	6/8/2020	6/8/2020	79-01-6	Y	Trichloroethene	0.5
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	29
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	29

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202402-03	ug/L	1000	220	500	1000	2000	U	U	6/8/2020	6/9/2020
R202402-03	% Recovery	0.5	0.19	0.25	0.5	1			6/8/2020	6/9/2020
R202402-03	% Recovery	0.5		0.25	0.5	1			6/8/2020	6/9/2020
R202402-03	% Recovery	0.5	0.24	0.25	0.5	1			6/8/2020	6/9/2020
R202402-03	ug/L	1000	320	500	1000	2000	U	U	6/8/2020	6/9/2020
R202402-03	ug/L	4000	280	500	4000	2000	U	U	6/8/2020	6/9/2020
R202402-03	ug/L	1000	280	500	1000	2000	U	U	6/8/2020	6/9/2020
R202402-03	ug/L	1000	120	250	1000	2000	D		6/8/2020	6/9/2020
R202402-04	ug/L	100	16	50	100	200	U	U	6/8/2020	6/8/2020
R202402-04	ug/L	100	16	50	100	200	U	U	6/8/2020	6/8/2020
R202402-04	ug/L	100	22	50	100	200	U	U	6/8/2020	6/8/2020
R202402-04	ug/L	100	22	50	100	200	U	U	6/8/2020	6/8/2020
R202402-04	% Recovery	0.5	0.19	0.25	0.5	1			6/8/2020	6/8/2020
R202402-04	% Recovery	0.5		0.25	0.5	1			6/8/2020	6/8/2020
R202402-04	% Recovery	0.5	0.24	0.25	0.5	1			6/8/2020	6/8/2020
R202402-04	ug/L	100	32	50	100	200	U	U	6/8/2020	6/8/2020
R202402-04	ug/L	400	28	50	400	200	U	U	6/8/2020	6/8/2020
R202402-04	ug/L	100	28	50	100	200	U	U	6/8/2020	6/8/2020
R202402-04	ug/L	100	12	25	100	200	D		6/8/2020	6/8/2020
R202402-05	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/8/2020	6/8/2020
R202402-05	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/8/2020	6/8/2020
R202402-05	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/8/2020	6/8/2020
R202402-05	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/8/2020	6/8/2020
R202402-05	% Recovery	0.5	0.19	0.25	0.5	1			6/8/2020	6/8/2020
R202402-05	% Recovery	0.5		0.25	0.5	1			6/8/2020	6/8/2020
R202402-05	% Recovery	0.5	0.24	0.25	0.5	1			6/8/2020	6/8/2020
R202402-05	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/8/2020	6/8/2020
R202402-05	ug/L	2	0.14	0.25	2	1	U	U	6/8/2020	6/8/2020
R202402-05	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/8/2020	6/8/2020
R202402-05	ug/L	0.5	0.062	0.13	0.5	1	U	U	6/8/2020	6/8/2020
R202403-01	ug/kg dry	29	6.5	14	29	1	U	U	6/8/2020	6/9/2020
R202403-01	ug/kg dry	29	9.2	14	29	1	U	U	6/8/2020	6/9/2020
R202403-01	ug/kg dry	29	5.2	14	29	1	U	U	6/8/2020	6/9/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	96.7
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	101
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	86.8
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	75-01-4	Y	Vinyl chloride	29
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	75-09-2	Y	Methylene chloride	110
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	29
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	29
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	79-01-6	Y	Trichloroethene	29
R202403-01	DPT-024 (9-10)	Soil	6/8/2020	6/8/2020	NA	Y	% Solids	93.3
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	38
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	38
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	38
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	94.8
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	100
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.1
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	75-01-4	Y	Vinyl chloride	38
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	75-09-2	Y	Methylene chloride	150
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	38
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	38
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	79-01-6	Y	Trichloroethene	38
R202403-02	DUP-08	Soil	6/8/2020	6/8/2020	NA	Y	% Solids	92.7
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	28
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	92.8
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.3
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	80.1
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	75-01-4	Y	Vinyl chloride	28
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	75-09-2	Y	Methylene chloride	110
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	28
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	28
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	79-01-6	Y	Trichloroethene	28
R202403-03	DPT-024 (13-14)	Soil	6/8/2020	6/8/2020	NA	Y	% Solids	92.7

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202403-01	% Recovery	1400	5.7	29	1400	1	U	U	6/8/2020	6/9/2020
R202403-01	% Recovery	0.57		0.29	0.57	1			6/8/2020	6/9/2020
R202403-01	% Recovery	1400	6.3	29	1400	1	U	U	6/8/2020	6/9/2020
R202403-01	ug/kg dry	29	6.6	14	29	1	U	U	6/8/2020	6/9/2020
R202403-01	ug/kg dry	110	8	14	110	1	U	U	6/8/2020	6/9/2020
R202403-01	ug/kg dry	29	11	14	29	1	U	U	6/8/2020	6/9/2020
R202403-01	ug/kg dry	29	8.4	14	29	1	U	U	6/8/2020	6/9/2020
R202403-01	ug/kg dry	29	4.7	14	29	1	U	U	6/8/2020	6/9/2020
R202403-01	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202403-02	ug/kg dry	38	8.7	19	38	1	U	U	6/8/2020	6/9/2020
R202403-02	ug/kg dry	38	12	19	38	1	U	U	6/8/2020	6/9/2020
R202403-02	ug/kg dry	38	6.8	19	38	1	U	U	6/8/2020	6/9/2020
R202403-02	% Recovery	1900	7.6	38	1900	1	U	U	6/8/2020	6/9/2020
R202403-02	% Recovery	0.76		0.38	0.76	1			6/8/2020	6/9/2020
R202403-02	% Recovery	1900	8.4	38	1900	1	U	U	6/8/2020	6/9/2020
R202403-02	ug/kg dry	38	8.8	19	38	1	U	U	6/8/2020	6/9/2020
R202403-02	ug/kg dry	150	11	19	150	1	U	U	6/8/2020	6/9/2020
R202403-02	ug/kg dry	38	14	19	38	1	U	U	6/8/2020	6/9/2020
R202403-02	ug/kg dry	38	11	19	38	1	U	U	6/8/2020	6/9/2020
R202403-02	ug/kg dry	38	6.2	19	38	1	U	U	6/8/2020	6/9/2020
R202403-02	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202403-03	ug/kg dry	28	6.5	14	28	1	U	U	6/8/2020	6/8/2020
R202403-03	ug/kg dry	28	9.1	14	28	1	U	U	6/8/2020	6/8/2020
R202403-03	ug/kg dry	28	5.1	14	28	1	U	U	6/8/2020	6/8/2020
R202403-03	% Recovery	1400	5.7	28	1400	1	U	U	6/8/2020	6/8/2020
R202403-03	% Recovery	0.57		0.28	0.57	1			6/8/2020	6/8/2020
R202403-03	% Recovery	1400	6.2	28	1400	1	U	U	6/8/2020	6/8/2020
R202403-03	ug/kg dry	28	6.6	14	28	1	U	U	6/8/2020	6/8/2020
R202403-03	ug/kg dry	110	7.9	14	110	1	U	U	6/8/2020	6/8/2020
R202403-03	ug/kg dry	28	11	14	28	1	U	U	6/8/2020	6/8/2020
R202403-03	ug/kg dry	28	8.3	14	28	1	U	U	6/8/2020	6/8/2020
R202403-03	ug/kg dry	28	4.6	14	28	1	U	U	6/8/2020	6/8/2020
R202403-03	% by Weight	0	0		0	1			6/8/2020	6/9/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	33
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	33
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	33
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	94.2
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	97.7
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	83
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	75-01-4	Y	Vinyl chloride	33
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	75-09-2	Y	Methylene chloride	130
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	33
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	33
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	79-01-6	Y	Trichloroethene	33
R202403-04	DPT-024 (17-18)	Soil	6/8/2020	6/8/2020	NA	Y	% Solids	93.4
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	31
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	31
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	31
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	91.2
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.3
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	79.8
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	75-01-4	Y	Vinyl chloride	31
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	75-09-2	Y	Methylene chloride	120
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	31
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	31
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	79-01-6	Y	Trichloroethene	31
R202403-05	DPT-024 (21-22)	Soil	6/8/2020	6/8/2020	NA	Y	% Solids	92.6
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	127-18-4	Y	Tetrachloroethene	31
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	156-59-2	Y	cis-1,2-Dichloroethene	31
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	156-60-5	Y	trans-1,2-Dichloroethene	31
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	2037-26-5	Y	Toluene-d8 (surr)	67.6
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	66.5
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	57.2
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	75-01-4	Y	Vinyl chloride	31
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	75-09-2	Y	Methylene chloride	130
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	75-34-3	Y	1,1-Dichloroethane	31

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202403-04	ug/kg dry	33	7.6	17	33	1	U	U	6/8/2020	6/8/2020
R202403-04	ug/kg dry	33	11	17	33	1	U	U	6/8/2020	6/8/2020
R202403-04	ug/kg dry	33	6	17	33	1	U	U	6/8/2020	6/8/2020
R202403-04	% Recovery	1700	6.7	33	1700	1	U	U	6/8/2020	6/8/2020
R202403-04	% Recovery	0.67		0.33	0.67	1			6/8/2020	6/8/2020
R202403-04	% Recovery	1700	7.4	33	1700	1	U	U	6/8/2020	6/8/2020
R202403-04	ug/kg dry	33	7.8	17	33	1	U	U	6/8/2020	6/8/2020
R202403-04	ug/kg dry	130	9.4	17	130	1	U	U	6/8/2020	6/8/2020
R202403-04	ug/kg dry	33	12	17	33	1	U	U	6/8/2020	6/8/2020
R202403-04	ug/kg dry	33	9.8	17	33	1	U	U	6/8/2020	6/8/2020
R202403-04	ug/kg dry	33	5.5	17	33	1	U	U	6/8/2020	6/8/2020
R202403-04	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202403-05	ug/kg dry	31	7.1	15	31	1	U	U	6/8/2020	6/8/2020
R202403-05	ug/kg dry	31	9.9	15	31	1	U	U	6/8/2020	6/8/2020
R202403-05	ug/kg dry	31	5.6	15	31	1	U	U	6/8/2020	6/8/2020
R202403-05	% Recovery	1500	6.2	31	1500	1	U	U	6/8/2020	6/8/2020
R202403-05	% Recovery	0.62		0.31	0.62	1			6/8/2020	6/8/2020
R202403-05	% Recovery	1500	6.8	31	1500	1	U	U	6/8/2020	6/8/2020
R202403-05	ug/kg dry	31	7.2	15	31	1	U	U	6/8/2020	6/8/2020
R202403-05	ug/kg dry	120	8.7	15	120	1	U	U	6/8/2020	6/8/2020
R202403-05	ug/kg dry	31	12	15	31	1	U	U	6/8/2020	6/8/2020
R202403-05	ug/kg dry	31	9	15	31	1	U	U	6/8/2020	6/8/2020
R202403-05	ug/kg dry	31	5.1	15	31	1	U	U	6/8/2020	6/8/2020
R202403-05	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202403-06	ug/kg dry	31	7.1	16	31	1	U	UJ	6/8/2020	6/8/2020
R202403-06	ug/kg dry	31	10	16	31	1	U	UJ	6/8/2020	6/8/2020
R202403-06	ug/kg dry	31	5.6	16	31	1	U	UJ	6/8/2020	6/8/2020
R202403-06	% Recovery	1600	6.3	31	1600	1	U	U	6/8/2020	6/8/2020
R202403-06	% Recovery	0.63		0.31	0.63	1	S		6/8/2020	6/8/2020
R202403-06	% Recovery	1600	6.9	31	1600	1	S, U	U	6/8/2020	6/8/2020
R202403-06	ug/kg dry	31	7.3	16	31	1	U	UJ	6/8/2020	6/8/2020
R202403-06	ug/kg dry	130	8.8	16	130	1	U	UJ	6/8/2020	6/8/2020
R202403-06	ug/kg dry	31	12	16	31	1	U	UJ	6/8/2020	6/8/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	75-35-4	Y	1,1-Dichloroethene	31
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	79-01-6	Y	Trichloroethene	31
R202403-06	DUP-09	Soil	6/8/2020	6/8/2020	NA	Y	% Solids	85.5
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	127-18-4	Y	Tetrachloroethene	0.5
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	2037-26-5	Y	Toluene-d8 (surr)	94.3
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.2
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	80.7
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	75-01-4	Y	Vinyl chloride	0.5
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	75-09-2	Y	Methylene chloride	2
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202404-01	DPT-024 (33)	Water	6/9/2020	6/9/2020	79-01-6	Y	Trichloroethene	0.5
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	107-06-2	Y	1,2-Dichloroethane	1000
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	127-18-4	Y	Tetrachloroethene	1000
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	156-59-2	Y	cis-1,2-Dichloroethene	1000
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	156-60-5	Y	trans-1,2-Dichloroethene	1000
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	2037-26-5	Y	Toluene-d8 (surr)	93.2
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.1
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	79.6
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	75-01-4	Y	Vinyl chloride	1000
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	75-09-2	Y	Methylene chloride	4000
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	75-35-4	Y	1,1-Dichloroethene	1000
R202404-02	DPT-013 (33)	Water	6/9/2020	6/9/2020	79-01-6	Y	Trichloroethene	57000
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	107-06-2	Y	1,2-Dichloroethane	1000
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	127-18-4	Y	Tetrachloroethene	1000
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	156-59-2	Y	cis-1,2-Dichloroethene	1000
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	156-60-5	Y	trans-1,2-Dichloroethene	1000
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	2037-26-5	Y	Toluene-d8 (surr)	90.7
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.1
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	78.9
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	75-01-4	Y	Vinyl chloride	1000

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202403-06	ug/kg dry	31	9.2	16	31	1	U	UJ	6/8/2020	6/8/2020
R202403-06	ug/kg dry	31	5.1	16	31	1	U	UJ	6/8/2020	6/8/2020
R202403-06	% by Weight	0	0		0	1			6/8/2020	6/9/2020
R202404-01	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/9/2020	6/9/2020
R202404-01	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/9/2020	6/9/2020
R202404-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/9/2020	6/9/2020
R202404-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/9/2020	6/9/2020
R202404-01	% Recovery	0.5	0.19	0.25	0.5	1			6/9/2020	6/9/2020
R202404-01	% Recovery	0.5		0.25	0.5	1			6/9/2020	6/9/2020
R202404-01	% Recovery	0.5	0.24	0.25	0.5	1			6/9/2020	6/9/2020
R202404-01	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/9/2020	6/9/2020
R202404-01	ug/L	2	0.14	0.25	2	1	U	U	6/9/2020	6/9/2020
R202404-01	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/9/2020	6/9/2020
R202404-01	ug/L	0.5	0.062	0.13	0.5	1	U	U	6/9/2020	6/9/2020
R202404-02	ug/L	1000	160	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-02	ug/L	1000	160	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-02	ug/L	1000	220	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-02	ug/L	1000	220	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-02	% Recovery	0.5	0.19	0.25	0.5	1			6/9/2020	6/9/2020
R202404-02	% Recovery	0.5		0.25	0.5	1			6/9/2020	6/9/2020
R202404-02	% Recovery	0.5	0.24	0.25	0.5	1			6/9/2020	6/9/2020
R202404-02	ug/L	1000	320	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-02	ug/L	4000	280	500	4000	2000	U	U	6/9/2020	6/9/2020
R202404-02	ug/L	1000	280	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-02	ug/L	1000	120	250	1000	2000	D		6/9/2020	6/9/2020
R202404-03	ug/L	1000	160	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-03	ug/L	1000	160	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-03	ug/L	1000	220	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-03	ug/L	1000	220	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-03	% Recovery	0.5	0.19	0.25	0.5	1			6/9/2020	6/9/2020
R202404-03	% Recovery	0.5		0.25	0.5	1			6/9/2020	6/9/2020
R202404-03	% Recovery	0.5	0.24	0.25	0.5	1			6/9/2020	6/9/2020
R202404-03	ug/L	1000	320	500	1000	2000	U	U	6/9/2020	6/9/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	75-09-2	Y	Methylene chloride	4000
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	75-35-4	Y	1,1-Dichloroethene	1000
R202404-03	DPT-012 (33)	Water	6/9/2020	6/9/2020	79-01-6	Y	Trichloroethene	21000
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	107-06-2	Y	1,2-Dichloroethane	100
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	127-18-4	Y	Tetrachloroethene	100
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	156-59-2	Y	cis-1,2-Dichloroethene	100
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	156-60-5	Y	trans-1,2-Dichloroethene	100
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	2037-26-5	Y	Toluene-d8 (surr)	92.6
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	98.5
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	82.7
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	75-01-4	Y	Vinyl chloride	100
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	75-09-2	Y	Methylene chloride	400
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	75-35-4	Y	1,1-Dichloroethene	100
R202404-04	DPT-023 (33)	Water	6/9/2020	6/9/2020	79-01-6	Y	Trichloroethene	2500
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	127-18-4	Y	Tetrachloroethene	26
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	2037-26-5	Y	Toluene-d8 (surr)	91.9
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.3
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.3
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	75-01-4	Y	Vinyl chloride	26
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	75-09-2	Y	Methylene chloride	110
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	75-34-3	Y	1,1-Dichloroethane	26
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	75-35-4	Y	1,1-Dichloroethene	26
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	79-01-6	Y	Trichloroethene	26
R202405-01	DPT-025 (6-7)	Soil	6/9/2020	6/9/2020	NA	Y	% Solids	91.2
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	127-18-4	Y	Tetrachloroethene	31
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	156-59-2	Y	cis-1,2-Dichloroethene	31
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	156-60-5	Y	trans-1,2-Dichloroethene	31
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	2037-26-5	Y	Toluene-d8 (surr)	91.7
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	92.3
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.2
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	75-01-4	Y	Vinyl chloride	31

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202404-03	ug/L	4000	280	500	4000	2000	U	U	6/9/2020	6/9/2020
R202404-03	ug/L	1000	280	500	1000	2000	U	U	6/9/2020	6/9/2020
R202404-03	ug/L	1000	120	250	1000	2000	D		6/9/2020	6/9/2020
R202404-04	ug/L	100	16	50	100	200	U	U	6/9/2020	6/9/2020
R202404-04	ug/L	100	16	50	100	200	U	U	6/9/2020	6/9/2020
R202404-04	ug/L	100	22	50	100	200	U	U	6/9/2020	6/9/2020
R202404-04	ug/L	100	22	50	100	200	U	U	6/9/2020	6/9/2020
R202404-04	% Recovery	0.5	0.19	0.25	0.5	1			6/9/2020	6/9/2020
R202404-04	% Recovery	0.5		0.25	0.5	1			6/9/2020	6/9/2020
R202404-04	% Recovery	0.5	0.24	0.25	0.5	1			6/9/2020	6/9/2020
R202404-04	ug/L	100	32	50	100	200	U	U	6/9/2020	6/9/2020
R202404-04	ug/L	400	28	50	400	200	U	U	6/9/2020	6/9/2020
R202404-04	ug/L	100	28	50	100	200	U	U	6/9/2020	6/9/2020
R202404-04	ug/L	100	12	25	100	200	D		6/9/2020	6/9/2020
R202405-01	ug/kg dry	26	6	13	26	1	U	U	6/9/2020	6/9/2020
R202405-01	ug/kg dry	26	8.5	13	26	1	U	U	6/9/2020	6/9/2020
R202405-01	ug/kg dry	26	4.8	13	26	1	U	U	6/9/2020	6/9/2020
R202405-01	% Recovery	1300	5.3	26	1300	1	U	U	6/9/2020	6/9/2020
R202405-01	% Recovery	0.53		0.26	0.53	1			6/9/2020	6/9/2020
R202405-01	% Recovery	1300	5.8	26	1300	1	U	U	6/9/2020	6/9/2020
R202405-01	ug/kg dry	26	6.1	13	26	1	U	U	6/9/2020	6/9/2020
R202405-01	ug/kg dry	110	7.4	13	110	1	U	U	6/9/2020	6/9/2020
R202405-01	ug/kg dry	26	9.8	13	26	1	U	U	6/9/2020	6/9/2020
R202405-01	ug/kg dry	26	7.7	13	26	1	U	U	6/9/2020	6/9/2020
R202405-01	ug/kg dry	26	4.3	13	26	1	U	U	6/9/2020	6/9/2020
R202405-01	% by Weight	0	0		0	1			6/9/2020	6/10/2020
R202405-02	ug/kg dry	31	7	15	31	1	U	U	6/9/2020	6/9/2020
R202405-02	ug/kg dry	31	9.8	15	31	1	U	U	6/9/2020	6/9/2020
R202405-02	ug/kg dry	31	5.5	15	31	1	U	U	6/9/2020	6/9/2020
R202405-02	% Recovery	1500	6.1	31	1500	1	U	U	6/9/2020	6/9/2020
R202405-02	% Recovery	0.61		0.31	0.61	1			6/9/2020	6/9/2020
R202405-02	% Recovery	1500	6.7	31	1500	1	U	U	6/9/2020	6/9/2020
R202405-02	ug/kg dry	31	7.1	15	31	1	U	U	6/9/2020	6/9/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	75-09-2	Y	Methylene chloride	120
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	75-34-3	Y	1,1-Dichloroethane	31
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	75-35-4	Y	1,1-Dichloroethene	31
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	79-01-6	Y	Trichloroethene	31
R202405-02	DPT-025 (11-12)	Soil	6/9/2020	6/9/2020	NA	Y	% Solids	89.8
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	127-18-4	Y	Tetrachloroethene	31
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	156-59-2	Y	cis-1,2-Dichloroethene	31
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	156-60-5	Y	trans-1,2-Dichloroethene	31
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	2037-26-5	Y	Toluene-d8 (surr)	89.2
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	91.7
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	78.7
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	75-01-4	Y	Vinyl chloride	31
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	75-09-2	Y	Methylene chloride	120
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	75-34-3	Y	1,1-Dichloroethane	31
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	75-35-4	Y	1,1-Dichloroethene	31
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	79-01-6	Y	Trichloroethene	38
R202405-03	DPT-025 (17-18)	Soil	6/9/2020	6/9/2020	NA	Y	% Solids	84
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	127-18-4	Y	Tetrachloroethene	26
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	2037-26-5	Y	Toluene-d8 (surr)	91.2
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	97
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.2
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	75-01-4	Y	Vinyl chloride	26
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	75-09-2	Y	Methylene chloride	110
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	75-34-3	Y	1,1-Dichloroethane	26
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	75-35-4	Y	1,1-Dichloroethene	26
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	79-01-6	Y	Trichloroethene	52
R202405-04	DPT-025 (22-23)	Soil	6/9/2020	6/9/2020	NA	Y	% Solids	85.1
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	107-06-2	Y	1,2-Dichloroethane	5
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	127-18-4	Y	Tetrachloroethene	5
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	156-59-2	Y	cis-1,2-Dichloroethene	8.1
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	156-60-5	Y	trans-1,2-Dichloroethene	5

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202405-02	ug/kg dry	120	8.6	15	120	1	U	U	6/9/2020	6/9/2020
R202405-02	ug/kg dry	31	11	15	31	1	U	U	6/9/2020	6/9/2020
R202405-02	ug/kg dry	31	8.9	15	31	1	U	U	6/9/2020	6/9/2020
R202405-02	ug/kg dry	31	5	15	31	1	U	U	6/9/2020	6/9/2020
R202405-02	% by Weight	0	0		0	1			6/9/2020	6/10/2020
R202405-03	ug/kg dry	31	7	15	31	1	U	U	6/9/2020	6/9/2020
R202405-03	ug/kg dry	31	9.9	15	31	1	U	U	6/9/2020	6/9/2020
R202405-03	ug/kg dry	31	5.6	15	31	1	U	U	6/9/2020	6/9/2020
R202405-03	% Recovery	1500	6.2	31	1500	1	U	U	6/9/2020	6/9/2020
R202405-03	% Recovery	0.62		0.31	0.62	1			6/9/2020	6/9/2020
R202405-03	% Recovery	1500	6.8	31	1500	1	U	U	6/9/2020	6/9/2020
R202405-03	ug/kg dry	31	7.2	15	31	1	U	U	6/9/2020	6/9/2020
R202405-03	ug/kg dry	120	8.6	15	120	1	U	U	6/9/2020	6/9/2020
R202405-03	ug/kg dry	31	11	15	31	1	U	U	6/9/2020	6/9/2020
R202405-03	ug/kg dry	31	9	15	31	1	U	U	6/9/2020	6/9/2020
R202405-03	ug/kg dry	31	5.1	15	31	1			6/9/2020	6/9/2020
R202405-03	% by Weight	0	0		0	1			6/9/2020	6/10/2020
R202405-04	ug/kg dry	26	6	13	26	1	U	U	6/9/2020	6/9/2020
R202405-04	ug/kg dry	26	8.4	13	26	1	U	U	6/9/2020	6/9/2020
R202405-04	ug/kg dry	26	4.7	13	26	1	U	U	6/9/2020	6/9/2020
R202405-04	% Recovery	1300	5.3	26	1300	1	U	U	6/9/2020	6/9/2020
R202405-04	% Recovery	0.53		0.26	0.53	1			6/9/2020	6/9/2020
R202405-04	% Recovery	1300	5.8	26	1300	1	U	U	6/9/2020	6/9/2020
R202405-04	ug/kg dry	26	6.1	13	26	1	U	U	6/9/2020	6/9/2020
R202405-04	ug/kg dry	110	7.4	13	110	1	U	U	6/9/2020	6/9/2020
R202405-04	ug/kg dry	26	9.8	13	26	1	U	U	6/9/2020	6/9/2020
R202405-04	ug/kg dry	26	7.7	13	26	1	U	U	6/9/2020	6/9/2020
R202405-04	ug/kg dry	26	4.3	13	26	1			6/9/2020	6/9/2020
R202405-04	% by Weight	0	0		0	1			6/9/2020	6/10/2020
R202406-01	ug/L	5	0.78	2.5	5	10	U	U	6/10/2020	6/10/2020
R202406-01	ug/L	5	0.81	2.5	5	10	U	U	6/10/2020	6/10/2020
R202406-01	ug/L	5	1.1	2.5	5	10	D	J	6/10/2020	6/10/2020
R202406-01	ug/L	5	1.1	2.5	5	10	U	U	6/10/2020	6/10/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	2037-26-5	Y	Toluene-d8 (surr)	89.8
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	91.8
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	74.9
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	75-01-4	Y	Vinyl chloride	5
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	75-09-2	Y	Methylene chloride	20
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	75-35-4	Y	1,1-Dichloroethene	5
R202406-01	DPT-025 (36)	Water	6/10/2020	6/10/2020	79-01-6	Y	Trichloroethene	660
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	107-06-2	Y	1,2-Dichloroethane	5
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	127-18-4	Y	Tetrachloroethene	5
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	156-60-5	Y	trans-1,2-Dichloroethene	5
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	2037-26-5	Y	Toluene-d8 (surr)	91.5
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94.4
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	75.2
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	75-01-4	Y	Vinyl chloride	5
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	75-09-2	Y	Methylene chloride	20
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	75-35-4	Y	1,1-Dichloroethene	5
R202406-02	DUP-10	Water	6/10/2020	6/10/2020	79-01-6	Y	Trichloroethene	1600
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	107-06-2	Y	1,2-Dichloroethane	250
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	127-18-4	Y	Tetrachloroethene	250
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	156-59-2	Y	cis-1,2-Dichloroethene	520
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	156-60-5	Y	trans-1,2-Dichloroethene	250
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	2037-26-5	Y	Toluene-d8 (surr)	89.2
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	92.1
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	77
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	75-01-4	Y	Vinyl chloride	250
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	75-09-2	Y	Methylene chloride	1000
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	75-35-4	Y	1,1-Dichloroethene	250
R202406-03	DPT-028 (48)	Water	6/10/2020	6/10/2020	79-01-6	Y	Trichloroethene	11000
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	127-18-4	Y	Tetrachloroethene	23
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	156-59-2	Y	cis-1,2-Dichloroethene	23
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	156-60-5	Y	trans-1,2-Dichloroethene	23
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	2037-26-5	Y	Toluene-d8 (surr)	89.5

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202406-01	% Recovery	0.5	0.19	0.25	0.5	1			6/10/2020	6/10/2020
R202406-01	% Recovery	0.5		0.25	0.5	1			6/10/2020	6/10/2020
R202406-01	% Recovery	0.5	0.24	0.25	0.5	1	S		6/10/2020	6/10/2020
R202406-01	ug/L	5	1.6	2.5	5	10	U	U	6/10/2020	6/10/2020
R202406-01	ug/L	20	1.4	2.5	20	10	U	U	6/10/2020	6/10/2020
R202406-01	ug/L	5	1.4	2.5	5	10	U	U	6/10/2020	6/10/2020
R202406-01	ug/L	50	6.2	13	50	100	M, D	J	6/10/2020	6/11/2020
R202406-02	ug/L	5	0.78	2.5	5	10	U	U	6/10/2020	6/10/2020
R202406-02	ug/L	5	0.81	2.5	5	10	U	U	6/10/2020	6/10/2020
R202406-02	ug/L	5	1.1	2.5	5	10	D	J	6/10/2020	6/10/2020
R202406-02	ug/L	5	1.1	2.5	5	10	U	U	6/10/2020	6/10/2020
R202406-02	% Recovery	0.5	0.19	0.25	0.5	1			6/10/2020	6/10/2020
R202406-02	% Recovery	0.5		0.25	0.5	1			6/10/2020	6/10/2020
R202406-02	% Recovery	0.5	0.24	0.25	0.5	1	S		6/10/2020	6/10/2020
R202406-02	ug/L	5	1.6	2.5	5	10	U	U	6/10/2020	6/10/2020
R202406-02	ug/L	20	1.4	2.5	20	10	U	U	6/10/2020	6/10/2020
R202406-02	ug/L	5	1.4	2.5	5	10	U	U	6/10/2020	6/10/2020
R202406-02	ug/L	50	6.2	13	50	100	D	J	6/10/2020	6/10/2020
R202406-03	ug/L	250	39	130	250	500	U	U	6/10/2020	6/10/2020
R202406-03	ug/L	250	41	130	250	500	U	U	6/10/2020	6/10/2020
R202406-03	ug/L	250	55	130	250	500	D		6/10/2020	6/10/2020
R202406-03	ug/L	250	55	130	250	500	U	U	6/10/2020	6/10/2020
R202406-03	% Recovery	0.5	0.19	0.25	0.5	1			6/10/2020	6/10/2020
R202406-03	% Recovery	0.5		0.25	0.5	1			6/10/2020	6/10/2020
R202406-03	% Recovery	0.5	0.24	0.25	0.5	1	S		6/10/2020	6/10/2020
R202406-03	ug/L	250	80	130	250	500	U	U	6/10/2020	6/10/2020
R202406-03	ug/L	1000	70	130	1000	500	U	U	6/10/2020	6/10/2020
R202406-03	ug/L	250	70	130	250	500	U	U	6/10/2020	6/10/2020
R202406-03	ug/L	250	31	63	250	500	D		6/10/2020	6/10/2020
R202407-01	ug/kg dry	23	5.2	11	23	1	U	U	6/10/2020	6/10/2020
R202407-01	ug/kg dry	23	7.3	11	23	1	U	U	6/10/2020	6/10/2020
R202407-01	ug/kg dry	23	4.1	11	23	1	U	U	6/10/2020	6/10/2020
R202407-01	% Recovery	1100	4.6	23	1100	1	U	U	6/10/2020	6/10/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88.5
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	74.3
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	75-01-4	Y	Vinyl chloride	23
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	75-09-2	Y	Methylene chloride	92
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	75-34-3	Y	1,1-Dichloroethane	23
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	75-35-4	Y	1,1-Dichloroethene	23
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	79-01-6	Y	Trichloroethene	410
R202407-01	DPT-028 (10-11)	Soil	6/10/2020	6/10/2020	NA	Y	% Solids	89.7
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	127-18-4	Y	Tetrachloroethene	29
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	2037-26-5	Y	Toluene-d8 (surr)	89.7
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	92.4
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	76.9
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	75-01-4	Y	Vinyl chloride	29
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	75-09-2	Y	Methylene chloride	120
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	75-34-3	Y	1,1-Dichloroethane	29
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	75-35-4	Y	1,1-Dichloroethene	29
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	79-01-6	Y	Trichloroethene	220
R202407-02	DPT-028 (13-14)	Soil	6/10/2020	6/10/2020	NA	Y	% Solids	90.1
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	127-18-4	Y	Tetrachloroethene	32
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	156-59-2	Y	cis-1,2-Dichloroethene	32
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	156-60-5	Y	trans-1,2-Dichloroethene	32
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	2037-26-5	Y	Toluene-d8 (surr)	90.6
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	76.4
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	75-01-4	Y	Vinyl chloride	32
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	75-09-2	Y	Methylene chloride	130
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	75-34-3	Y	1,1-Dichloroethane	32
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	75-35-4	Y	1,1-Dichloroethene	32
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	79-01-6	Y	Trichloroethene	1300
R202407-03	DPT-028 (16-17)	Soil	6/10/2020	6/10/2020	NA	Y	% Solids	85.7
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	127-18-4	Y	Tetrachloroethene	37

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202407-01	% Recovery	0.46		0.23	0.46	1			6/10/2020	6/10/2020
R202407-01	% Recovery	1100	5	23	1100	1	U	U	6/10/2020	6/10/2020
R202407-01	ug/kg dry	23	5.3	11	23	1	U	U	6/10/2020	6/10/2020
R202407-01	ug/kg dry	92	6.4	11	92	1	U	U	6/10/2020	6/10/2020
R202407-01	ug/kg dry	23	8.5	11	23	1	U	U	6/10/2020	6/10/2020
R202407-01	ug/kg dry	23	6.7	11	23	1	U	U	6/10/2020	6/10/2020
R202407-01	ug/kg dry	23	3.8	11	23	1	M		6/10/2020	6/10/2020
R202407-01	% by Weight	0	0		0	1			6/10/2020	6/11/2020
R202407-02	ug/kg dry	29	6.6	14	29	1	U	U	6/10/2020	6/10/2020
R202407-02	ug/kg dry	29	9.2	14	29	1	U	U	6/10/2020	6/10/2020
R202407-02	ug/kg dry	29	5.2	14	29	1	U	U	6/10/2020	6/10/2020
R202407-02	% Recovery	1400	5.8	29	1400	1	U	U	6/10/2020	6/10/2020
R202407-02	% Recovery	0.58		0.29	0.58	1			6/10/2020	6/10/2020
R202407-02	% Recovery	1400	6.3	29	1400	1	U	U	6/10/2020	6/10/2020
R202407-02	ug/kg dry	29	6.7	14	29	1	U	U	6/10/2020	6/10/2020
R202407-02	ug/kg dry	120	8.1	14	120	1	U	U	6/10/2020	6/10/2020
R202407-02	ug/kg dry	29	11	14	29	1	U	U	6/10/2020	6/10/2020
R202407-02	ug/kg dry	29	8.4	14	29	1	U	U	6/10/2020	6/10/2020
R202407-02	ug/kg dry	29	4.7	14	29	1			6/10/2020	6/10/2020
R202407-02	% by Weight	0	0		0	1			6/10/2020	6/11/2020
R202407-03	ug/kg dry	32	7.3	16	32	1	U	U	6/10/2020	6/10/2020
R202407-03	ug/kg dry	32	10	16	32	1	U	U	6/10/2020	6/10/2020
R202407-03	ug/kg dry	32	5.7	16	32	1	U	U	6/10/2020	6/10/2020
R202407-03	% Recovery	1600	6.4	32	1600	1	U	U	6/10/2020	6/10/2020
R202407-03	% Recovery	0.64		0.32	0.64	1			6/10/2020	6/10/2020
R202407-03	% Recovery	1600	7	32	1600	1	U	U	6/10/2020	6/10/2020
R202407-03	ug/kg dry	32	7.4	16	32	1	U	U	6/10/2020	6/10/2020
R202407-03	ug/kg dry	130	8.9	16	130	1	U	U	6/10/2020	6/10/2020
R202407-03	ug/kg dry	32	12	16	32	1	U	U	6/10/2020	6/10/2020
R202407-03	ug/kg dry	32	9.3	16	32	1	U	U	6/10/2020	6/10/2020
R202407-03	ug/kg dry	32	5.2	16	32	1			6/10/2020	6/10/2020
R202407-03	% by Weight	0	0		0	1			6/10/2020	6/11/2020
R202407-04	ug/kg dry	37	8.4	18	37	1	U	U	6/10/2020	6/10/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	156-59-2	Y	cis-1,2-Dichloroethene	37
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	156-60-5	Y	trans-1,2-Dichloroethene	37
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	2037-26-5	Y	Toluene-d8 (surr)	90.4
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	95
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	75.7
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	75-01-4	Y	Vinyl chloride	37
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	75-09-2	Y	Methylene chloride	150
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	75-34-3	Y	1,1-Dichloroethane	37
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	75-35-4	Y	1,1-Dichloroethene	37
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	79-01-6	Y	Trichloroethene	790
R202407-04	DUP-011	Soil	6/10/2020	6/10/2020	NA	Y	% Solids	85.4
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	127-18-4	Y	Tetrachloroethene	28
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	156-59-2	Y	cis-1,2-Dichloroethene	38
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	2037-26-5	Y	Toluene-d8 (surr)	81.3
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	87.5
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	67.6
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	75-01-4	Y	Vinyl chloride	28
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	75-09-2	Y	Methylene chloride	110
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	75-34-3	Y	1,1-Dichloroethane	28
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	75-35-4	Y	1,1-Dichloroethene	28
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	79-01-6	Y	Trichloroethene	3300
R202407-05	DPT-028 (21-22)	Soil	6/10/2020	6/10/2020	NA	Y	% Solids	88.1
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	29
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	88.9
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	84.3
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.4
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	29
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	110
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	29
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	29

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202407-04	ug/kg dry	37	12	18	37	1	U	U	6/10/2020	6/10/2020
R202407-04	ug/kg dry	37	6.6	18	37	1	U	U	6/10/2020	6/10/2020
R202407-04	% Recovery	1800	7.4	37	1800	1	U	U	6/10/2020	6/10/2020
R202407-04	% Recovery	0.74		0.37	0.74	1			6/10/2020	6/10/2020
R202407-04	% Recovery	1800	8.1	37	1800	1	U	U	6/10/2020	6/10/2020
R202407-04	ug/kg dry	37	8.5	18	37	1	U	U	6/10/2020	6/10/2020
R202407-04	ug/kg dry	150	10	18	150	1	U	U	6/10/2020	6/10/2020
R202407-04	ug/kg dry	37	14	18	37	1	U	U	6/10/2020	6/10/2020
R202407-04	ug/kg dry	37	11	18	37	1	U	U	6/10/2020	6/10/2020
R202407-04	ug/kg dry	37	6	18	37	1			6/10/2020	6/10/2020
R202407-04	% by Weight	0	0		0	1			6/10/2020	6/11/2020
R202407-05	ug/kg dry	28	6.3	14	28	1	U	U	6/10/2020	6/10/2020
R202407-05	ug/kg dry	28	8.9	14	28	1			6/10/2020	6/10/2020
R202407-05	ug/kg dry	28	5	14	28	1	U	U	6/10/2020	6/10/2020
R202407-05	% Recovery	1400	5.6	28	1400	1	U	U	6/10/2020	6/10/2020
R202407-05	% Recovery	0.56		0.28	0.56	1			6/10/2020	6/10/2020
R202407-05	% Recovery	1400	6.1	28	1400	1	U	U	6/10/2020	6/10/2020
R202407-05	ug/kg dry	28	6.4	14	28	1	U	U	6/10/2020	6/10/2020
R202407-05	ug/kg dry	110	7.8	14	110	1	U	U	6/10/2020	6/10/2020
R202407-05	ug/kg dry	28	10	14	28	1	U	U	6/10/2020	6/10/2020
R202407-05	ug/kg dry	28	8.1	14	28	1	U	U	6/10/2020	6/10/2020
R202407-05	ug/kg dry	110	18	56	110	4	D		6/10/2020	6/10/2020
R202407-05	% by Weight	0	0		0	1			6/10/2020	6/11/2020
R202408-01	ug/kg dry	29	6.5	14	29	1	U	U	6/11/2020	6/11/2020
R202408-01	ug/kg dry	29	9.1	14	29	1	U	U	6/11/2020	6/11/2020
R202408-01	ug/kg dry	29	5.1	14	29	1	U	U	6/11/2020	6/11/2020
R202408-01	% Recovery	1400	5.7	29	1400	1	U	U	6/11/2020	6/11/2020
R202408-01	% Recovery	0.57		0.29	0.57	1			6/11/2020	6/11/2020
R202408-01	% Recovery	1400	6.3	29	1400	1	U	U	6/11/2020	6/11/2020
R202408-01	ug/kg dry	29	6.6	14	29	1	U	U	6/11/2020	6/11/2020
R202408-01	ug/kg dry	110	8	14	110	1	U	U	6/11/2020	6/11/2020
R202408-01	ug/kg dry	29	11	14	29	1	U	U	6/11/2020	6/11/2020
R202408-01	ug/kg dry	29	8.3	14	29	1	U	U	6/11/2020	6/11/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	29
R202408-01	DPT-029 (7-8)	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	93.6
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	29
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	93.7
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88.6
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87.4
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	29
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	120
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	29
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	29
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	29
R202408-02	DUP-12	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	94.1
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	28
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	91.5
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90.5
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	90.6
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	28
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	110
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	28
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	28
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	28
R202408-03	DPT-029 (13-14)	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	88.4
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	28
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	94.2
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	93.3
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	89.4
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	28

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202408-01	ug/kg dry	29	4.7	14	29	1	U	U	6/11/2020	6/11/2020
R202408-01	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-02	ug/kg dry	29	6.7	15	29	1	U	U	6/11/2020	6/11/2020
R202408-02	ug/kg dry	29	9.4	15	29	1	U	U	6/11/2020	6/11/2020
R202408-02	ug/kg dry	29	5.3	15	29	1	U	U	6/11/2020	6/11/2020
R202408-02	% Recovery	1500	5.9	29	1500	1	U	U	6/11/2020	6/11/2020
R202408-02	% Recovery	0.59		0.29	0.59	1			6/11/2020	6/11/2020
R202408-02	% Recovery	1500	6.5	29	1500	1	U	U	6/11/2020	6/11/2020
R202408-02	ug/kg dry	29	6.8	15	29	1	U	U	6/11/2020	6/11/2020
R202408-02	ug/kg dry	120	8.2	15	120	1	U	U	6/11/2020	6/11/2020
R202408-02	ug/kg dry	29	11	15	29	1	U	U	6/11/2020	6/11/2020
R202408-02	ug/kg dry	29	8.6	15	29	1	U	U	6/11/2020	6/11/2020
R202408-02	ug/kg dry	29	4.8	15	29	1	U	U	6/11/2020	6/11/2020
R202408-02	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-03	ug/kg dry	28	6.3	14	28	1	U	U	6/11/2020	6/11/2020
R202408-03	ug/kg dry	28	8.9	14	28	1	U	U	6/11/2020	6/11/2020
R202408-03	ug/kg dry	28	5	14	28	1	U	U	6/11/2020	6/11/2020
R202408-03	% Recovery	1400	5.5	28	1400	1	U	U	6/11/2020	6/11/2020
R202408-03	% Recovery	0.55		0.28	0.55	1			6/11/2020	6/11/2020
R202408-03	% Recovery	1400	6.1	28	1400	1	U	U	6/11/2020	6/11/2020
R202408-03	ug/kg dry	28	6.4	14	28	1	U	U	6/11/2020	6/11/2020
R202408-03	ug/kg dry	110	7.8	14	110	1	U	U	6/11/2020	6/11/2020
R202408-03	ug/kg dry	28	10	14	28	1	U	U	6/11/2020	6/11/2020
R202408-03	ug/kg dry	28	8.1	14	28	1	U	U	6/11/2020	6/11/2020
R202408-03	ug/kg dry	28	4.5	14	28	1	U	U	6/11/2020	6/11/2020
R202408-03	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-04	ug/kg dry	28	6.4	14	28	1	U	U	6/11/2020	6/11/2020
R202408-04	ug/kg dry	28	9	14	28	1	U	U	6/11/2020	6/11/2020
R202408-04	ug/kg dry	28	5.1	14	28	1	U	U	6/11/2020	6/11/2020
R202408-04	% Recovery	1400	5.7	28	1400	1	U	U	6/11/2020	6/11/2020
R202408-04	% Recovery	0.57		0.28	0.57	1			6/11/2020	6/11/2020
R202408-04	% Recovery	1400	6.2	28	1400	1	U	U	6/11/2020	6/11/2020
R202408-04	ug/kg dry	28	6.6	14	28	1	U	U	6/11/2020	6/11/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	110
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	28
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	28
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	28
R202408-04	DPT-029 (17-18)	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	93.2
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	31
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	31
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	31
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	92.4
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	91.3
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	88.9
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	31
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	130
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	31
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	31
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	31
R202408-05	DPT-029 (21-22)	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	92
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	28
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	96
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	95.2
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	91
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	28
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	110
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	28
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	28
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	28
R202408-06	DUP-13	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	94.7
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	28
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	160
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	94.8

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202408-04	ug/kg dry	110	7.9	14	110	1	U	U	6/11/2020	6/11/2020
R202408-04	ug/kg dry	28	11	14	28	1	U	U	6/11/2020	6/11/2020
R202408-04	ug/kg dry	28	8.3	14	28	1	U	U	6/11/2020	6/11/2020
R202408-04	ug/kg dry	28	4.6	14	28	1	U	U	6/11/2020	6/11/2020
R202408-04	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-05	ug/kg dry	31	7.2	16	31	1	U	U	6/11/2020	6/11/2020
R202408-05	ug/kg dry	31	10	16	31	1	U	U	6/11/2020	6/11/2020
R202408-05	ug/kg dry	31	5.7	16	31	1	U	U	6/11/2020	6/11/2020
R202408-05	% Recovery	1600	6.3	31	1600	1	U	U	6/11/2020	6/11/2020
R202408-05	% Recovery	0.63		0.31	0.63	1			6/11/2020	6/11/2020
R202408-05	% Recovery	1600	6.9	31	1600	1	U	U	6/11/2020	6/11/2020
R202408-05	ug/kg dry	31	7.3	16	31	1	U	U	6/11/2020	6/11/2020
R202408-05	ug/kg dry	130	8.8	16	130	1	U	U	6/11/2020	6/11/2020
R202408-05	ug/kg dry	31	12	16	31	1	U	U	6/11/2020	6/11/2020
R202408-05	ug/kg dry	31	9.2	16	31	1	U	U	6/11/2020	6/11/2020
R202408-05	ug/kg dry	31	5.2	16	31	1	U	U	6/11/2020	6/11/2020
R202408-05	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-06	ug/kg dry	28	6.4	14	28	1	U	U	6/11/2020	6/11/2020
R202408-06	ug/kg dry	28	9	14	28	1	U	U	6/11/2020	6/11/2020
R202408-06	ug/kg dry	28	5.1	14	28	1	U	U	6/11/2020	6/11/2020
R202408-06	% Recovery	1400	5.6	28	1400	1	U	U	6/11/2020	6/11/2020
R202408-06	% Recovery	0.56		0.28	0.56	1			6/11/2020	6/11/2020
R202408-06	% Recovery	1400	6.2	28	1400	1	U	U	6/11/2020	6/11/2020
R202408-06	ug/kg dry	28	6.5	14	28	1	U	U	6/11/2020	6/11/2020
R202408-06	ug/kg dry	110	7.9	14	110	1	U	U	6/11/2020	6/11/2020
R202408-06	ug/kg dry	28	10	14	28	1	U	U	6/11/2020	6/11/2020
R202408-06	ug/kg dry	28	8.2	14	28	1	U	U	6/11/2020	6/11/2020
R202408-06	ug/kg dry	28	4.6	14	28	1	U	U	6/11/2020	6/11/2020
R202408-06	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-07	ug/kg dry	28	6.3	14	28	1	U	U	6/11/2020	6/11/2020
R202408-07	ug/kg dry	28	8.9	14	28	1			6/11/2020	6/11/2020
R202408-07	ug/kg dry	28	5	14	28	1	U	U	6/11/2020	6/11/2020
R202408-07	% Recovery	1400	5.6	28	1400	1	U	U	6/11/2020	6/11/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	93.6
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	93.6
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	28
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	110
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	28
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	28
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	16000
R202408-07	DPT-030 (10-11)	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	86.2
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	28
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	170
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	88.8
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	86.2
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.6
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	28
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	110
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	28
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	28
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	17000
R202408-08	DUP-14	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	86.5
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	32
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	74
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	32
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	89
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	87.5
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87.9
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	32
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	130
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	32
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	32
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	7900
R202408-09	DPT-030 (15-16)	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	79.5
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	32

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202408-07	% Recovery	0.56		0.28	0.56	1			6/11/2020	6/11/2020
R202408-07	% Recovery	1400	6.1	28	1400	1	U	U	6/11/2020	6/11/2020
R202408-07	ug/kg dry	28	6.5	14	28	1	U	U	6/11/2020	6/11/2020
R202408-07	ug/kg dry	110	7.8	14	110	1	U	U	6/11/2020	6/11/2020
R202408-07	ug/kg dry	28	10	14	28	1	U	U	6/11/2020	6/11/2020
R202408-07	ug/kg dry	28	8.1	14	28	1	U	U	6/11/2020	6/11/2020
R202408-07	ug/kg dry	280	46	140	280	10	D		6/11/2020	6/12/2020
R202408-07	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-08	ug/kg dry	28	6.3	14	28	1	U	U	6/11/2020	6/11/2020
R202408-08	ug/kg dry	28	8.8	14	28	1			6/11/2020	6/11/2020
R202408-08	ug/kg dry	28	5	14	28	1	U	U	6/11/2020	6/11/2020
R202408-08	% Recovery	1400	5.5	28	1400	1	U	U	6/11/2020	6/11/2020
R202408-08	% Recovery	0.55		0.28	0.55	1			6/11/2020	6/11/2020
R202408-08	% Recovery	1400	6.1	28	1400	1	U	U	6/11/2020	6/11/2020
R202408-08	ug/kg dry	28	6.4	14	28	1	U	U	6/11/2020	6/11/2020
R202408-08	ug/kg dry	110	7.7	14	110	1	U	U	6/11/2020	6/11/2020
R202408-08	ug/kg dry	28	10	14	28	1	U	U	6/11/2020	6/11/2020
R202408-08	ug/kg dry	28	8.1	14	28	1	U	U	6/11/2020	6/11/2020
R202408-08	ug/kg dry	280	45	140	280	10	D		6/11/2020	6/12/2020
R202408-08	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-09	ug/kg dry	32	7.2	16	32	1	U	U	6/11/2020	6/11/2020
R202408-09	ug/kg dry	32	10	16	32	1			6/11/2020	6/11/2020
R202408-09	ug/kg dry	32	5.7	16	32	1	U	U	6/11/2020	6/11/2020
R202408-09	% Recovery	1600	6.3	32	1600	1	U	U	6/11/2020	6/11/2020
R202408-09	% Recovery	0.63		0.32	0.63	1			6/11/2020	6/11/2020
R202408-09	% Recovery	1600	7	32	1600	1	U	U	6/11/2020	6/11/2020
R202408-09	ug/kg dry	32	7.4	16	32	1	U	U	6/11/2020	6/11/2020
R202408-09	ug/kg dry	130	8.9	16	130	1	U	U	6/11/2020	6/11/2020
R202408-09	ug/kg dry	32	12	16	32	1	U	U	6/11/2020	6/11/2020
R202408-09	ug/kg dry	32	9.3	16	32	1	U	U	6/11/2020	6/11/2020
R202408-09	ug/kg dry	160	26	79	160	5	D		6/11/2020	6/12/2020
R202408-09	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-10	ug/kg dry	32	7.2	16	32	1	U	U	6/11/2020	6/11/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	32
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	32
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	92
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88.9
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	89.2
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	32
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	130
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	32
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	32
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	32
R202408-10	DPT-030 (17-18)	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	91.2
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	30
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	30
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	90.1
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.6
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	30
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	120
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	30
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	30
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	30
R202408-11	DPT-030 (19-20)	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	90.8
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	30
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	30
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	84.4
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	79.9
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.2
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	30
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	120
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	30
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	30

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202408-10	ug/kg dry	32	10	16	32	1	U	U	6/11/2020	6/11/2020
R202408-10	ug/kg dry	32	5.7	16	32	1	U	U	6/11/2020	6/11/2020
R202408-10	% Recovery	1600	6.3	32	1600	1	U	U	6/11/2020	6/11/2020
R202408-10	% Recovery	0.63		0.32	0.63	1			6/11/2020	6/11/2020
R202408-10	% Recovery	1600	6.9	32	1600	1	U	U	6/11/2020	6/11/2020
R202408-10	ug/kg dry	32	7.3	16	32	1	U	U	6/11/2020	6/11/2020
R202408-10	ug/kg dry	130	8.8	16	130	1	U	U	6/11/2020	6/11/2020
R202408-10	ug/kg dry	32	12	16	32	1	U	U	6/11/2020	6/11/2020
R202408-10	ug/kg dry	32	9.2	16	32	1	U	U	6/11/2020	6/11/2020
R202408-10	ug/kg dry	32	5.2	16	32	1	U	U	6/11/2020	6/11/2020
R202408-10	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-11	ug/kg dry	30	6.8	15	30	1	U	U	6/11/2020	6/11/2020
R202408-11	ug/kg dry	30	9.6	15	30	1	U	U	6/11/2020	6/11/2020
R202408-11	ug/kg dry	30	5.4	15	30	1	U	U	6/11/2020	6/11/2020
R202408-11	% Recovery	1500	6	30	1500	1	U	U	6/11/2020	6/11/2020
R202408-11	% Recovery	0.6		0.3	0.6	1			6/11/2020	6/11/2020
R202408-11	% Recovery	1500	6.6	30	1500	1	U	U	6/11/2020	6/11/2020
R202408-11	ug/kg dry	30	7	15	30	1	U	U	6/11/2020	6/11/2020
R202408-11	ug/kg dry	120	8.4	15	120	1	U	U	6/11/2020	6/11/2020
R202408-11	ug/kg dry	30	11	15	30	1	U	U	6/11/2020	6/11/2020
R202408-11	ug/kg dry	30	8.7	15	30	1	U	U	6/11/2020	6/11/2020
R202408-11	ug/kg dry	30	4.9	15	30	1	U	U	6/11/2020	6/11/2020
R202408-11	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-12	ug/kg dry	30	6.9	15	30	1	U	U	6/11/2020	6/11/2020
R202408-12	ug/kg dry	30	9.7	15	30	1	U	U	6/11/2020	6/11/2020
R202408-12	ug/kg dry	30	5.4	15	30	1	U	U	6/11/2020	6/11/2020
R202408-12	% Recovery	1500	6.1	30	1500	1	U	U	6/11/2020	6/11/2020
R202408-12	% Recovery	0.61		0.3	0.61	1	S		6/11/2020	6/11/2020
R202408-12	% Recovery	1500	6.7	30	1500	1	U	U	6/11/2020	6/11/2020
R202408-12	ug/kg dry	30	7	15	30	1	U	U	6/11/2020	6/11/2020
R202408-12	ug/kg dry	120	8.5	15	120	1	U	U	6/11/2020	6/11/2020
R202408-12	ug/kg dry	30	11	15	30	1	U	U	6/11/2020	6/11/2020
R202408-12	ug/kg dry	30	8.8	15	30	1	U	U	6/11/2020	6/11/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	100
R202408-12	DPT-027 (17-18)	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	80.2
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	32
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	32
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	32
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	92.9
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90.2
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	90.7
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	32
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	130
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	75-34-3	Y	1,1-Dichloroethane	32
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	32
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	32
R202408-13	DPT-027 (22-23)	Soil	6/11/2020	6/11/2020	NA	Y	% Solids	93.4
R202409-01	EB-01	Water	6/11/2020	6/11/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202409-01	EB-01	Water	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	0.5
R202409-01	EB-01	Water	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202409-01	EB-01	Water	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202409-01	EB-01	Water	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	92.3
R202409-01	EB-01	Water	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	87
R202409-01	EB-01	Water	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	80.5
R202409-01	EB-01	Water	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	0.5
R202409-01	EB-01	Water	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	2
R202409-01	EB-01	Water	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202409-01	EB-01	Water	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	0.5
R202409-02	EB-02	Water	6/11/2020	6/11/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202409-02	EB-02	Water	6/11/2020	6/11/2020	127-18-4	Y	Tetrachloroethene	0.5
R202409-02	EB-02	Water	6/11/2020	6/11/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202409-02	EB-02	Water	6/11/2020	6/11/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202409-02	EB-02	Water	6/11/2020	6/11/2020	2037-26-5	Y	Toluene-d8 (surr)	94.4
R202409-02	EB-02	Water	6/11/2020	6/11/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.5
R202409-02	EB-02	Water	6/11/2020	6/11/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	93.9
R202409-02	EB-02	Water	6/11/2020	6/11/2020	75-01-4	Y	Vinyl chloride	0.5

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202408-12	ug/kg dry	30	5	15	30	1			6/11/2020	6/11/2020
R202408-12	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202408-13	ug/kg dry	32	7.3	16	32	1	U	U	6/11/2020	6/11/2020
R202408-13	ug/kg dry	32	10	16	32	1	U	U	6/11/2020	6/11/2020
R202408-13	ug/kg dry	32	5.7	16	32	1	U	U	6/11/2020	6/11/2020
R202408-13	% Recovery	1600	6.4	32	1600	1	U	U	6/11/2020	6/11/2020
R202408-13	% Recovery	0.64		0.32	0.64	1			6/11/2020	6/11/2020
R202408-13	% Recovery	1600	7	32	1600	1	U	U	6/11/2020	6/11/2020
R202408-13	ug/kg dry	32	7.4	16	32	1	U	U	6/11/2020	6/11/2020
R202408-13	ug/kg dry	130	8.9	16	130	1	U	U	6/11/2020	6/11/2020
R202408-13	ug/kg dry	32	12	16	32	1	U	U	6/11/2020	6/11/2020
R202408-13	ug/kg dry	32	9.3	16	32	1	U	U	6/11/2020	6/11/2020
R202408-13	ug/kg dry	32	5.2	16	32	1	U	U	6/11/2020	6/11/2020
R202408-13	% by Weight	0	0		0	1			6/11/2020	6/12/2020
R202409-01	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-01	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-01	% Recovery	0.5	0.19	0.25	0.5	1			6/12/2020	6/13/2020
R202409-01	% Recovery	0.5		0.25	0.5	1			6/12/2020	6/13/2020
R202409-01	% Recovery	0.5	0.24	0.25	0.5	1			6/12/2020	6/13/2020
R202409-01	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-01	ug/L	2	0.14	0.25	2	1	U	U	6/12/2020	6/13/2020
R202409-01	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-01	ug/L	0.5	0.062	0.13	0.5	1	U	U	6/12/2020	6/13/2020
R202409-02	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-02	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-02	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-02	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-02	% Recovery	0.5	0.19	0.25	0.5	1			6/12/2020	6/13/2020
R202409-02	% Recovery	0.5		0.25	0.5	1			6/12/2020	6/13/2020
R202409-02	% Recovery	0.5	0.24	0.25	0.5	1			6/12/2020	6/13/2020
R202409-02	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/12/2020	6/13/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202409-02	EB-02	Water	6/11/2020	6/11/2020	75-09-2	Y	Methylene chloride	2
R202409-02	EB-02	Water	6/11/2020	6/11/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202409-02	EB-02	Water	6/11/2020	6/11/2020	79-01-6	Y	Trichloroethene	0.5
R202409-03	EB-03	Water	6/12/2020	6/12/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202409-03	EB-03	Water	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	0.5
R202409-03	EB-03	Water	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202409-03	EB-03	Water	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202409-03	EB-03	Water	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	94.2
R202409-03	EB-03	Water	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	98.3
R202409-03	EB-03	Water	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	90.8
R202409-03	EB-03	Water	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	0.5
R202409-03	EB-03	Water	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	2
R202409-03	EB-03	Water	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202409-03	EB-03	Water	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	0.5
R202409-04	EB-04	Water	6/12/2020	6/12/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202409-04	EB-04	Water	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	0.5
R202409-04	EB-04	Water	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202409-04	EB-04	Water	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202409-04	EB-04	Water	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	96.1
R202409-04	EB-04	Water	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96
R202409-04	EB-04	Water	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	91.7
R202409-04	EB-04	Water	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	0.5
R202409-04	EB-04	Water	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	2
R202409-04	EB-04	Water	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202409-04	EB-04	Water	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	0.5
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	107-06-2	Y	1,2-Dichloroethane	10
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	10
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	700
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	10
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	94.3
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	89.5
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.4
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	10

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202409-02	ug/L	2	0.14	0.25	2	1	U	U	6/12/2020	6/13/2020
R202409-02	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-02	ug/L	0.5	0.062	0.13	0.5	1	U	U	6/12/2020	6/13/2020
R202409-03	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-03	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-03	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-03	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-03	% Recovery	0.5	0.19	0.25	0.5	1			6/12/2020	6/13/2020
R202409-03	% Recovery	0.5		0.25	0.5	1			6/12/2020	6/13/2020
R202409-03	% Recovery	0.5	0.24	0.25	0.5	1			6/12/2020	6/13/2020
R202409-03	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-03	ug/L	2	0.14	0.25	2	1	U	U	6/12/2020	6/13/2020
R202409-03	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-03	ug/L	0.5	0.062	0.13	0.5	1	U	U	6/12/2020	6/13/2020
R202409-04	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-04	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-04	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-04	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-04	% Recovery	0.5	0.19	0.25	0.5	1			6/12/2020	6/13/2020
R202409-04	% Recovery	0.5		0.25	0.5	1			6/12/2020	6/13/2020
R202409-04	% Recovery	0.5	0.24	0.25	0.5	1			6/12/2020	6/13/2020
R202409-04	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-04	ug/L	2	0.14	0.25	2	1	U	U	6/12/2020	6/13/2020
R202409-04	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/12/2020	6/13/2020
R202409-04	ug/L	0.5	0.062	0.13	0.5	1	U	U	6/12/2020	6/13/2020
R202409-05	ug/L	10	1.6	5	10	20	U	U	6/12/2020	6/12/2020
R202409-05	ug/L	10	1.6	5	10	20	U	U	6/12/2020	6/12/2020
R202409-05	ug/L	10	2.2	5	10	20	D		6/12/2020	6/12/2020
R202409-05	ug/L	10	2.2	5	10	20	U	U	6/12/2020	6/12/2020
R202409-05	% Recovery	0.5	0.19	0.25	0.5	1			6/12/2020	6/12/2020
R202409-05	% Recovery	0.5		0.25	0.5	1			6/12/2020	6/12/2020
R202409-05	% Recovery	0.5	0.24	0.25	0.5	1			6/12/2020	6/12/2020
R202409-05	ug/L	10	3.2	5	10	20	U	U	6/12/2020	6/12/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	40
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	10
R202409-05	DPT-029 (45)	Water	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	11000
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	107-06-2	Y	1,2-Dichloroethane	250
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	250
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	730
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	250
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	91.1
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90.9
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	86.4
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	250
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	1000
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	250
R202409-06	DUP-15	Water	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	13000
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	107-06-2	Y	1,2-Dichloroethane	250
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	250
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	1200
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	250
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	95.4
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	86
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	83.2
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	250
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	1000
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	250
R202409-07	DPT-029 (34)	Water	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	22000
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	107-06-2	Y	1,2-Dichloroethane	250
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	250
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	1200
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	250
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	92.6
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88.6
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	86.3
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	250

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202409-05	ug/L	40	2.8	5	40	20	U	U	6/12/2020	6/12/2020
R202409-05	ug/L	10	2.8	5	10	20	U	U	6/12/2020	6/12/2020
R202409-05	ug/L	250	31	63	250	500	D		6/12/2020	6/12/2020
R202409-06	ug/L	250	39	130	250	500	U	U	6/12/2020	6/12/2020
R202409-06	ug/L	250	41	130	250	500	U	U	6/12/2020	6/12/2020
R202409-06	ug/L	250	55	130	250	500	D		6/12/2020	6/12/2020
R202409-06	ug/L	250	55	130	250	500	U	U	6/12/2020	6/12/2020
R202409-06	% Recovery	0.5	0.19	0.25	0.5	1			6/12/2020	6/12/2020
R202409-06	% Recovery	0.5		0.25	0.5	1			6/12/2020	6/12/2020
R202409-06	% Recovery	0.5	0.24	0.25	0.5	1			6/12/2020	6/12/2020
R202409-06	ug/L	250	80	130	250	500	U	U	6/12/2020	6/12/2020
R202409-06	ug/L	1000	70	130	1000	500	U	U	6/12/2020	6/12/2020
R202409-06	ug/L	250	70	130	250	500	U	U	6/12/2020	6/12/2020
R202409-06	ug/L	250	31	63	250	500	D		6/12/2020	6/12/2020
R202409-07	ug/L	250	39	130	250	500	U	U	6/12/2020	6/12/2020
R202409-07	ug/L	250	41	130	250	500	U	U	6/12/2020	6/12/2020
R202409-07	ug/L	250	55	130	250	500	D		6/12/2020	6/12/2020
R202409-07	ug/L	250	55	130	250	500	U	U	6/12/2020	6/12/2020
R202409-07	% Recovery	0.5	0.19	0.25	0.5	1			6/12/2020	6/12/2020
R202409-07	% Recovery	0.5		0.25	0.5	1			6/12/2020	6/12/2020
R202409-07	% Recovery	0.5	0.24	0.25	0.5	1			6/12/2020	6/12/2020
R202409-07	ug/L	250	80	130	250	500	U	U	6/12/2020	6/12/2020
R202409-07	ug/L	1000	70	130	1000	500	U	U	6/12/2020	6/12/2020
R202409-07	ug/L	250	70	130	250	500	U	U	6/12/2020	6/12/2020
R202409-07	ug/L	250	31	63	250	500	D		6/12/2020	6/12/2020
R202409-08	ug/L	250	39	130	250	500	U	U	6/12/2020	6/12/2020
R202409-08	ug/L	250	41	130	250	500	U	U	6/12/2020	6/12/2020
R202409-08	ug/L	250	55	130	250	500	D		6/12/2020	6/12/2020
R202409-08	ug/L	250	55	130	250	500	U	U	6/12/2020	6/12/2020
R202409-08	% Recovery	0.5	0.19	0.25	0.5	1			6/12/2020	6/12/2020
R202409-08	% Recovery	0.5		0.25	0.5	1			6/12/2020	6/12/2020
R202409-08	% Recovery	0.5	0.24	0.25	0.5	1			6/12/2020	6/12/2020
R202409-08	ug/L	250	80	130	250	500	U	U	6/12/2020	6/12/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	1000
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	250
R202409-08	DUP-16	Water	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	21000
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	107-06-2	Y	1,2-Dichloroethane	100
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	100
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	310
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	100
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	97.6
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	93
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	90
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	100
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	400
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	100
R202409-09	DPT-031 (33)	Water	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	41000
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	107-06-2	Y	1,2-Dichloroethane	100
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	100
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	100
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	100
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	92.9
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90.9
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	92
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	100
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	400
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	100
R202409-10	DPT-027 (33)	Water	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	3500
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	27
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	27
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	89.3
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	85
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	80.9
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	27
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	110

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202409-08	ug/L	1000	70	130	1000	500	U	U	6/12/2020	6/12/2020
R202409-08	ug/L	250	70	130	250	500	U	U	6/12/2020	6/12/2020
R202409-08	ug/L	250	31	63	250	500	D		6/12/2020	6/12/2020
R202409-09	ug/L	100	16	50	100	200	U	U	6/12/2020	6/13/2020
R202409-09	ug/L	100	16	50	100	200	U	U	6/12/2020	6/13/2020
R202409-09	ug/L	100	22	50	100	200	D		6/12/2020	6/13/2020
R202409-09	ug/L	100	22	50	100	200	U	U	6/12/2020	6/13/2020
R202409-09	% Recovery	0.5	0.19	0.25	0.5	1			6/12/2020	6/13/2020
R202409-09	% Recovery	0.5		0.25	0.5	1			6/12/2020	6/13/2020
R202409-09	% Recovery	0.5	0.24	0.25	0.5	1			6/12/2020	6/13/2020
R202409-09	ug/L	100	32	50	100	200	U	U	6/12/2020	6/13/2020
R202409-09	ug/L	400	28	50	400	200	U	U	6/12/2020	6/13/2020
R202409-09	ug/L	100	28	50	100	200	U	U	6/12/2020	6/13/2020
R202409-09	ug/L	1000	120	250	1000	2000	D		6/12/2020	6/13/2020
R202409-10	ug/L	100	16	50	100	200	U	U	6/12/2020	6/13/2020
R202409-10	ug/L	100	16	50	100	200	U	U	6/12/2020	6/13/2020
R202409-10	ug/L	100	22	50	100	200	U	U	6/12/2020	6/13/2020
R202409-10	ug/L	100	22	50	100	200	U	U	6/12/2020	6/13/2020
R202409-10	% Recovery	0.5	0.19	0.25	0.5	1			6/12/2020	6/13/2020
R202409-10	% Recovery	0.5		0.25	0.5	1			6/12/2020	6/13/2020
R202409-10	% Recovery	0.5	0.24	0.25	0.5	1			6/12/2020	6/13/2020
R202409-10	ug/L	100	32	50	100	200	U	U	6/12/2020	6/13/2020
R202409-10	ug/L	400	28	50	400	200	U	U	6/12/2020	6/13/2020
R202409-10	ug/L	100	28	50	100	200	U	U	6/12/2020	6/13/2020
R202409-10	ug/L	100	12	25	100	200	D		6/12/2020	6/13/2020
R202410-01	ug/kg dry	27	6.2	14	27	1	U	U	6/12/2020	6/12/2020
R202410-01	ug/kg dry	27	8.7	14	27	1	U	U	6/12/2020	6/12/2020
R202410-01	ug/kg dry	27	4.9	14	27	1	U	U	6/12/2020	6/12/2020
R202410-01	% Recovery	1400	5.4	27	1400	1	U	U	6/12/2020	6/12/2020
R202410-01	% Recovery	0.54		0.27	0.54	1			6/12/2020	6/12/2020
R202410-01	% Recovery	1400	6	27	1400	1	U	U	6/12/2020	6/12/2020
R202410-01	ug/kg dry	27	6.3	14	27	1	U	U	6/12/2020	6/12/2020
R202410-01	ug/kg dry	110	7.6	14	110	1	U	U	6/12/2020	6/12/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	75-34-3	Y	1,1-Dichloroethane	27
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	27
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	27
R202410-01	DPT-031 (12-13)	Soil	6/12/2020	6/12/2020	NA	Y	% Solids	89
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	28
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	81.9
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	80.7
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	74.4
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	28
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	110
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	75-34-3	Y	1,1-Dichloroethane	28
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	28
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	65
R202410-02	DPT-031 (3-4)	Soil	6/12/2020	6/12/2020	NA	Y	% Solids	84.5
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	26
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	96
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	91.4
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	88.5
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	26
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	100
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	75-34-3	Y	1,1-Dichloroethane	26
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	26
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	560
R202410-03	DPT-031 (16-17)	Soil	6/12/2020	6/12/2020	NA	Y	% Solids	86.2
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	127-18-4	Y	Tetrachloroethene	29
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	156-59-2	Y	cis-1,2-Dichloroethene	34
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	2037-26-5	Y	Toluene-d8 (surr)	93.9
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	92.9

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202410-01	ug/kg dry	27	10	14	27	1	U	U	6/12/2020	6/12/2020
R202410-01	ug/kg dry	27	7.9	14	27	1	U	U	6/12/2020	6/12/2020
R202410-01	ug/kg dry	27	4.4	14	27	1	M, X, U	J	6/12/2020	6/12/2020
R202410-01	% by Weight	0	0		0	1			6/12/2020	6/13/2020
R202410-02	ug/kg dry	28	6.4	14	28	1	U	U	6/12/2020	6/12/2020
R202410-02	ug/kg dry	28	8.9	14	28	1	U	U	6/12/2020	6/12/2020
R202410-02	ug/kg dry	28	5	14	28	1	U	U	6/12/2020	6/12/2020
R202410-02	% Recovery	1400	5.6	28	1400	1	U	U	6/12/2020	6/12/2020
R202410-02	% Recovery	0.56		0.28	0.56	1			6/12/2020	6/12/2020
R202410-02	% Recovery	1400	6.2	28	1400	1	U	U	6/12/2020	6/12/2020
R202410-02	ug/kg dry	28	6.5	14	28	1	U	U	6/12/2020	6/12/2020
R202410-02	ug/kg dry	110	7.8	14	110	1	U	U	6/12/2020	6/12/2020
R202410-02	ug/kg dry	28	10	14	28	1	U	U	6/12/2020	6/12/2020
R202410-02	ug/kg dry	28	8.2	14	28	1	U	U	6/12/2020	6/12/2020
R202410-02	ug/kg dry	28	4.6	14	28	1			6/12/2020	6/12/2020
R202410-02	% by Weight	0	0		0	1			6/12/2020	6/13/2020
R202410-03	ug/kg dry	26	5.9	13	26	1	U	U	6/12/2020	6/12/2020
R202410-03	ug/kg dry	26	8.3	13	26	1	U	U	6/12/2020	6/12/2020
R202410-03	ug/kg dry	26	4.7	13	26	1	U	U	6/12/2020	6/12/2020
R202410-03	% Recovery	1300	5.2	26	1300	1	U	U	6/12/2020	6/12/2020
R202410-03	% Recovery	0.52		0.26	0.52	1			6/12/2020	6/12/2020
R202410-03	% Recovery	1300	5.7	26	1300	1	U	U	6/12/2020	6/12/2020
R202410-03	ug/kg dry	26	6	13	26	1	U	U	6/12/2020	6/12/2020
R202410-03	ug/kg dry	100	7.3	13	100	1	U	U	6/12/2020	6/12/2020
R202410-03	ug/kg dry	26	9.6	13	26	1	U	U	6/12/2020	6/12/2020
R202410-03	ug/kg dry	26	7.6	13	26	1	U	U	6/12/2020	6/12/2020
R202410-03	ug/kg dry	26	4.2	13	26	1			6/12/2020	6/12/2020
R202410-03	% by Weight	0	0		0	1			6/12/2020	6/13/2020
R202410-04	ug/kg dry	29	6.7	15	29	1	U	U	6/12/2020	6/12/2020
R202410-04	ug/kg dry	29	9.4	15	29	1			6/12/2020	6/12/2020
R202410-04	ug/kg dry	29	5.3	15	29	1	U	U	6/12/2020	6/12/2020
R202410-04	% Recovery	1500	5.9	29	1500	1	U	U	6/12/2020	6/12/2020
R202410-04	% Recovery	0.59		0.29	0.59	1			6/12/2020	6/12/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	89.8
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	75-01-4	Y	Vinyl chloride	29
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	75-09-2	Y	Methylene chloride	120
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	75-34-3	Y	1,1-Dichloroethane	29
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	75-35-4	Y	1,1-Dichloroethene	29
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	79-01-6	Y	Trichloroethene	2000
R202410-04	DPT-031 (21-22)	Soil	6/12/2020	6/12/2020	NA	Y	% Solids	83.5
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	127-18-4	Y	Tetrachloroethene	26
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	2037-26-5	Y	Toluene-d8 (surr)	96.1
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.9
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	75-01-4	Y	Vinyl chloride	26
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	75-09-2	Y	Methylene chloride	100
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	75-34-3	Y	1,1-Dichloroethane	26
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	75-35-4	Y	1,1-Dichloroethene	26
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	79-01-6	Y	Trichloroethene	26
R202411-01	DPT-032 (12-13)	Soil	6/13/2020	6/13/2020	NA	Y	% Solids	93.6
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	127-18-4	Y	Tetrachloroethene	28
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	2037-26-5	Y	Toluene-d8 (surr)	93.2
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	86
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.3
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	75-01-4	Y	Vinyl chloride	28
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	75-09-2	Y	Methylene chloride	110
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	75-34-3	Y	1,1-Dichloroethane	28
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	75-35-4	Y	1,1-Dichloroethene	28
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	79-01-6	Y	Trichloroethene	28
R202411-02	DPT-032 (15-16)	Soil	6/13/2020	6/13/2020	NA	Y	% Solids	92.9
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	127-18-4	Y	Tetrachloroethene	26
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	156-59-2	Y	cis-1,2-Dichloroethene	26

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202410-04	% Recovery	1500	6.5	29	1500	1	U	U	6/12/2020	6/12/2020
R202410-04	ug/kg dry	29	6.8	15	29	1	U	U	6/12/2020	6/12/2020
R202410-04	ug/kg dry	120	8.3	15	120	1	U	U	6/12/2020	6/12/2020
R202410-04	ug/kg dry	29	11	15	29	1	U	U	6/12/2020	6/12/2020
R202410-04	ug/kg dry	29	8.6	15	29	1	U	U	6/12/2020	6/12/2020
R202410-04	ug/kg dry	29	4.8	15	29	1			6/12/2020	6/12/2020
R202410-04	% by Weight	0	0		0	1			6/12/2020	6/13/2020
R202411-01	ug/kg dry	26	6	13	26	1	U	U	6/13/2020	6/13/2020
R202411-01	ug/kg dry	26	8.4	13	26	1	U	U	6/13/2020	6/13/2020
R202411-01	ug/kg dry	26	4.7	13	26	1	U	U	6/13/2020	6/13/2020
R202411-01	% Recovery	1300	5.2	26	1300	1	U	U	6/13/2020	6/13/2020
R202411-01	% Recovery	0.52		0.26	0.52	1			6/13/2020	6/13/2020
R202411-01	% Recovery	1300	5.8	26	1300	1	U	U	6/13/2020	6/13/2020
R202411-01	ug/kg dry	26	6.1	13	26	1	U	U	6/13/2020	6/13/2020
R202411-01	ug/kg dry	100	7.3	13	100	1	U	U	6/13/2020	6/13/2020
R202411-01	ug/kg dry	26	9.7	13	26	1	U	U	6/13/2020	6/13/2020
R202411-01	ug/kg dry	26	7.6	13	26	1	U	U	6/13/2020	6/13/2020
R202411-01	ug/kg dry	26	4.3	13	26	1	U	U	6/13/2020	6/13/2020
R202411-01	% by Weight	0	0		0	1			6/13/2020	6/14/2020
R202411-02	ug/kg dry	28	6.4	14	28	1	U	U	6/13/2020	6/13/2020
R202411-02	ug/kg dry	28	9	14	28	1	U	U	6/13/2020	6/13/2020
R202411-02	ug/kg dry	28	5	14	28	1	U	U	6/13/2020	6/13/2020
R202411-02	% Recovery	1400	5.6	28	1400	1	U	U	6/13/2020	6/13/2020
R202411-02	% Recovery	0.56		0.28	0.56	1			6/13/2020	6/13/2020
R202411-02	% Recovery	1400	6.2	28	1400	1	U	U	6/13/2020	6/13/2020
R202411-02	ug/kg dry	28	6.5	14	28	1	U	U	6/13/2020	6/13/2020
R202411-02	ug/kg dry	110	7.8	14	110	1	U	U	6/13/2020	6/13/2020
R202411-02	ug/kg dry	28	10	14	28	1	U	U	6/13/2020	6/13/2020
R202411-02	ug/kg dry	28	8.2	14	28	1	U	U	6/13/2020	6/13/2020
R202411-02	ug/kg dry	28	4.6	14	28	1	U	U	6/13/2020	6/13/2020
R202411-02	% by Weight	0	0		0	1			6/13/2020	6/14/2020
R202411-03	ug/kg dry	26	5.9	13	26	1	U	U	6/13/2020	6/13/2020
R202411-03	ug/kg dry	26	8.2	13	26	1	U	U	6/13/2020	6/13/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	2037-26-5	Y	Toluene-d8 (surr)	92.2
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	86.2
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.4
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	75-01-4	Y	Vinyl chloride	26
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	75-09-2	Y	Methylene chloride	100
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	75-34-3	Y	1,1-Dichloroethane	26
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	75-35-4	Y	1,1-Dichloroethene	26
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	79-01-6	Y	Trichloroethene	26
R202411-03	DPT-032 (19-20)	Soil	6/13/2020	6/13/2020	NA	Y	% Solids	87.9
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	127-18-4	Y	Tetrachloroethene	32
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	156-59-2	Y	cis-1,2-Dichloroethene	32
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	156-60-5	Y	trans-1,2-Dichloroethene	32
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	2037-26-5	Y	Toluene-d8 (surr)	92.7
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	89.7
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.7
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	75-01-4	Y	Vinyl chloride	32
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	75-09-2	Y	Methylene chloride	130
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	75-34-3	Y	1,1-Dichloroethane	32
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	75-35-4	Y	1,1-Dichloroethene	32
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	79-01-6	Y	Trichloroethene	32
R202411-04	DPT-032 (21-22)	Soil	6/13/2020	6/13/2020	NA	Y	% Solids	89.3
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	127-18-4	Y	Tetrachloroethene	29
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	2037-26-5	Y	Toluene-d8 (surr)	101
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.3
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	93.8
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	75-01-4	Y	Vinyl chloride	29
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	75-09-2	Y	Methylene chloride	120
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	75-34-3	Y	1,1-Dichloroethane	29
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	75-35-4	Y	1,1-Dichloroethene	29
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	79-01-6	Y	Trichloroethene	29

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202411-03	ug/kg dry	26	4.6	13	26	1	U	U	6/13/2020	6/13/2020
R202411-03	% Recovery	1300	5.1	26	1300	1	U	U	6/13/2020	6/13/2020
R202411-03	% Recovery	0.51		0.26	0.51	1			6/13/2020	6/13/2020
R202411-03	% Recovery	1300	5.7	26	1300	1	U	U	6/13/2020	6/13/2020
R202411-03	ug/kg dry	26	6	13	26	1	U	U	6/13/2020	6/13/2020
R202411-03	ug/kg dry	100	7.2	13	100	1	U	U	6/13/2020	6/13/2020
R202411-03	ug/kg dry	26	9.6	13	26	1	U	U	6/13/2020	6/13/2020
R202411-03	ug/kg dry	26	7.5	13	26	1	U	U	6/13/2020	6/13/2020
R202411-03	ug/kg dry	26	4.2	13	26	1	U	U	6/13/2020	6/13/2020
R202411-03	% by Weight	0	0		0	1			6/13/2020	6/14/2020
R202411-04	ug/kg dry	32	7.3	16	32	1	U	U	6/13/2020	6/13/2020
R202411-04	ug/kg dry	32	10	16	32	1	U	U	6/13/2020	6/13/2020
R202411-04	ug/kg dry	32	5.8	16	32	1	U	U	6/13/2020	6/13/2020
R202411-04	% Recovery	1600	6.4	32	1600	1	U	U	6/13/2020	6/13/2020
R202411-04	% Recovery	0.64		0.32	0.64	1			6/13/2020	6/13/2020
R202411-04	% Recovery	1600	7	32	1600	1	U	U	6/13/2020	6/13/2020
R202411-04	ug/kg dry	32	7.4	16	32	1	U	U	6/13/2020	6/13/2020
R202411-04	ug/kg dry	130	9	16	130	1	U	U	6/13/2020	6/13/2020
R202411-04	ug/kg dry	32	12	16	32	1	U	U	6/13/2020	6/13/2020
R202411-04	ug/kg dry	32	9.4	16	32	1	U	U	6/13/2020	6/13/2020
R202411-04	ug/kg dry	32	5.3	16	32	1	U	U	6/13/2020	6/13/2020
R202411-04	% by Weight	0	0		0	1			6/13/2020	6/14/2020
R202411-05	ug/kg dry	29	6.6	15	29	1	U	U	6/13/2020	6/13/2020
R202411-05	ug/kg dry	29	9.3	15	29	1	U	U	6/13/2020	6/13/2020
R202411-05	ug/kg dry	29	5.2	15	29	1	U	U	6/13/2020	6/13/2020
R202411-05	% Recovery	1500	5.8	29	1500	1	U	U	6/13/2020	6/13/2020
R202411-05	% Recovery	0.58		0.29	0.58	1			6/13/2020	6/13/2020
R202411-05	% Recovery	1500	6.4	29	1500	1	U	U	6/13/2020	6/13/2020
R202411-05	ug/kg dry	29	6.7	15	29	1	U	U	6/13/2020	6/13/2020
R202411-05	ug/kg dry	120	8.1	15	120	1	U	U	6/13/2020	6/13/2020
R202411-05	ug/kg dry	29	11	15	29	1	U	U	6/13/2020	6/13/2020
R202411-05	ug/kg dry	29	8.5	15	29	1	U	U	6/13/2020	6/13/2020
R202411-05	ug/kg dry	29	4.8	15	29	1	U	U	6/13/2020	6/13/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202411-05	DPT-033 (8-9)	Soil	6/13/2020	6/13/2020	NA	Y	% Solids	92.7
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	127-18-4	Y	Tetrachloroethene	25
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	156-59-2	Y	cis-1,2-Dichloroethene	25
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	156-60-5	Y	trans-1,2-Dichloroethene	25
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	2037-26-5	Y	Toluene-d8 (surr)	95.3
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	89.2
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87.1
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	75-01-4	Y	Vinyl chloride	25
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	75-09-2	Y	Methylene chloride	100
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	75-34-3	Y	1,1-Dichloroethane	25
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	75-35-4	Y	1,1-Dichloroethene	25
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	79-01-6	Y	Trichloroethene	25
R202411-06	DPT-033 (12-13)	Soil	6/13/2020	6/13/2020	NA	Y	% Solids	91.5
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	127-18-4	Y	Tetrachloroethene	27
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	156-59-2	Y	cis-1,2-Dichloroethene	27
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	2037-26-5	Y	Toluene-d8 (surr)	90.7
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	75-01-4	Y	Vinyl chloride	27
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	75-09-2	Y	Methylene chloride	110
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	75-34-3	Y	1,1-Dichloroethane	27
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	75-35-4	Y	1,1-Dichloroethene	27
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	79-01-6	Y	Trichloroethene	520
R202411-07	DPT-033 (19-20)	Soil	6/13/2020	6/13/2020	NA	Y	% Solids	88.1
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	127-18-4	Y	Tetrachloroethene	26
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	156-59-2	Y	cis-1,2-Dichloroethene	39
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	2037-26-5	Y	Toluene-d8 (surr)	90
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	89.2
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.3
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	75-01-4	Y	Vinyl chloride	26
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	75-09-2	Y	Methylene chloride	100

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202411-05	% by Weight	0	0		0	1			6/13/2020	6/14/2020
R202411-06	ug/kg dry	25	5.7	13	25	1	U	U	6/13/2020	6/13/2020
R202411-06	ug/kg dry	25	8.1	13	25	1	U	U	6/13/2020	6/13/2020
R202411-06	ug/kg dry	25	4.5	13	25	1	U	U	6/13/2020	6/13/2020
R202411-06	% Recovery	1300	5	25	1300	1	U	U	6/13/2020	6/13/2020
R202411-06	% Recovery	0.5		0.25	0.5	1			6/13/2020	6/13/2020
R202411-06	% Recovery	1300	5.5	25	1300	1	U	U	6/13/2020	6/13/2020
R202411-06	ug/kg dry	25	5.8	13	25	1	U	U	6/13/2020	6/13/2020
R202411-06	ug/kg dry	100	7	13	100	1	U	U	6/13/2020	6/13/2020
R202411-06	ug/kg dry	25	9.4	13	25	1	U	U	6/13/2020	6/13/2020
R202411-06	ug/kg dry	25	7.3	13	25	1	U	U	6/13/2020	6/13/2020
R202411-06	ug/kg dry	25	4.1	13	25	1	U	U	6/13/2020	6/13/2020
R202411-06	% by Weight	0	0		0	1			6/13/2020	6/14/2020
R202411-07	ug/kg dry	27	6.2	14	27	1	U	U	6/13/2020	6/13/2020
R202411-07	ug/kg dry	27	8.7	14	27	1	U	U	6/13/2020	6/13/2020
R202411-07	ug/kg dry	27	4.9	14	27	1	U	U	6/13/2020	6/13/2020
R202411-07	% Recovery	1400	5.4	27	1400	1	U	U	6/13/2020	6/13/2020
R202411-07	% Recovery	0.54		0.27	0.54	1			6/13/2020	6/13/2020
R202411-07	% Recovery	1400	6	27	1400	1	U	U	6/13/2020	6/13/2020
R202411-07	ug/kg dry	27	6.3	14	27	1	U	U	6/13/2020	6/13/2020
R202411-07	ug/kg dry	110	7.6	14	110	1	U	U	6/13/2020	6/13/2020
R202411-07	ug/kg dry	27	10	14	27	1	U	U	6/13/2020	6/13/2020
R202411-07	ug/kg dry	27	7.9	14	27	1	U	U	6/13/2020	6/13/2020
R202411-07	ug/kg dry	27	4.5	14	27	1			6/13/2020	6/13/2020
R202411-07	% by Weight	0	0		0	1			6/13/2020	6/14/2020
R202411-08	ug/kg dry	26	5.8	13	26	1	U	U	6/13/2020	6/13/2020
R202411-08	ug/kg dry	26	8.2	13	26	1			6/13/2020	6/13/2020
R202411-08	ug/kg dry	26	4.6	13	26	1	U	U	6/13/2020	6/13/2020
R202411-08	% Recovery	1300	5.1	26	1300	1	U	U	6/13/2020	6/13/2020
R202411-08	% Recovery	0.51		0.26	0.51	1			6/13/2020	6/13/2020
R202411-08	% Recovery	1300	5.6	26	1300	1	U	U	6/13/2020	6/13/2020
R202411-08	ug/kg dry	26	5.9	13	26	1	U	U	6/13/2020	6/13/2020
R202411-08	ug/kg dry	100	7.2	13	100	1	U	U	6/13/2020	6/13/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	75-34-3	Y	1,1-Dichloroethane	26
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	75-35-4	Y	1,1-Dichloroethene	26
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	79-01-6	Y	Trichloroethene	1700
R202411-08	DPT-033 (22-23)	Soil	6/13/2020	6/13/2020	NA	Y	% Solids	87.9
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	127-18-4	Y	Tetrachloroethene	0.5
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	2037-26-5	Y	Toluene-d8 (surr)	94.4
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	93.8
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	89.2
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	75-01-4	Y	Vinyl chloride	0.5
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	75-09-2	Y	Methylene chloride	2
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202412-01	DPT-032 (35)	Water	6/13/2020	6/13/2020	79-01-6	Y	Trichloroethene	6.6
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	107-06-2	Y	1,2-Dichloroethane	2.5
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	127-18-4	Y	Tetrachloroethene	2.5
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	156-59-2	Y	cis-1,2-Dichloroethene	7.4
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	156-60-5	Y	trans-1,2-Dichloroethene	2.5
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	2037-26-5	Y	Toluene-d8 (surr)	92.7
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	89.5
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.4
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	75-01-4	Y	Vinyl chloride	2.5
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	75-09-2	Y	Methylene chloride	10
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	75-35-4	Y	1,1-Dichloroethene	2.5
R202412-02	DPT-032 (49.5)	Water	6/13/2020	6/13/2020	79-01-6	Y	Trichloroethene	61
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	107-06-2	Y	1,2-Dichloroethane	500
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	500
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	500
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	500
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	94.8
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	85.2
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.7

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202411-08	ug/kg dry	26	9.5	13	26	1	U	U	6/13/2020	6/13/2020
R202411-08	ug/kg dry	26	7.5	13	26	1	U	U	6/13/2020	6/13/2020
R202411-08	ug/kg dry	26	4.2	13	26	1			6/13/2020	6/13/2020
R202411-08	% by Weight	0	0		0	1			6/13/2020	6/14/2020
R202412-01	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202412-01	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202412-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202412-01	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202412-01	% Recovery	0.5	0.19	0.25	0.5	1			6/14/2020	6/14/2020
R202412-01	% Recovery	0.5		0.25	0.5	1			6/14/2020	6/14/2020
R202412-01	% Recovery	0.5	0.24	0.25	0.5	1			6/14/2020	6/14/2020
R202412-01	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202412-01	ug/L	2	0.14	0.25	2	1	U	U	6/14/2020	6/14/2020
R202412-01	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202412-01	ug/L	0.5	0.062	0.13	0.5	1			6/14/2020	6/14/2020
R202412-02	ug/L	2.5	0.39	1.3	2.5	5	U	U	6/14/2020	6/14/2020
R202412-02	ug/L	2.5	0.41	1.3	2.5	5	U	U	6/14/2020	6/14/2020
R202412-02	ug/L	2.5	0.55	1.3	2.5	5	D		6/14/2020	6/14/2020
R202412-02	ug/L	2.5	0.55	1.3	2.5	5	U	U	6/14/2020	6/14/2020
R202412-02	% Recovery	0.5	0.19	0.25	0.5	1			6/14/2020	6/14/2020
R202412-02	% Recovery	0.5		0.25	0.5	1			6/14/2020	6/14/2020
R202412-02	% Recovery	0.5	0.24	0.25	0.5	1			6/14/2020	6/14/2020
R202412-02	ug/L	2.5	0.8	1.3	2.5	5	U	U	6/14/2020	6/14/2020
R202412-02	ug/L	10	0.7	1.3	10	5	U	U	6/14/2020	6/14/2020
R202412-02	ug/L	2.5	0.7	1.3	2.5	5	U	U	6/14/2020	6/14/2020
R202412-02	ug/L	2.5	0.31	0.63	2.5	5	D		6/14/2020	6/14/2020
R202501-01	ug/L	500	78	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-01	ug/L	500	81	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-01	ug/L	500	110	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-01	ug/L	500	110	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-01	% Recovery	0.5	0.19	0.25	0.5	1			6/14/2020	6/14/2020
R202501-01	% Recovery	0.5		0.25	0.5	1			6/14/2020	6/14/2020
R202501-01	% Recovery	0.5	0.24	0.25	0.5	1			6/14/2020	6/14/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	500
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	2000
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	500
R202501-01	DPT-033 (49)	Water	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	3300
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	107-06-2	Y	1,2-Dichloroethane	500
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	500
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	500
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	500
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	91.7
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90.5
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.6
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	500
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	2000
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	500
R202501-02	DPT-033 (33)	Water	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	5700
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	0.5
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	0.5
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.5
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	94.5
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	86.4
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.7
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	0.5
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	2
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	0.5
R202501-03	DPT-034 (33)	Water	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	0.5
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	25
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	25
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	25
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	92.9
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	85.8
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87.1
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	25

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202501-01	ug/L	500	160	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-01	ug/L	2000	140	250	2000	1000	U	U	6/14/2020	6/14/2020
R202501-01	ug/L	500	140	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-01	ug/L	500	62	130	500	1000	D		6/14/2020	6/14/2020
R202501-02	ug/L	500	78	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-02	ug/L	500	81	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-02	ug/L	500	110	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-02	ug/L	500	110	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-02	% Recovery	0.5	0.19	0.25	0.5	1			6/14/2020	6/14/2020
R202501-02	% Recovery	0.5		0.25	0.5	1			6/14/2020	6/14/2020
R202501-02	% Recovery	0.5	0.24	0.25	0.5	1			6/14/2020	6/14/2020
R202501-02	ug/L	500	160	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-02	ug/L	2000	140	250	2000	1000	U	U	6/14/2020	6/14/2020
R202501-02	ug/L	500	140	250	500	1000	U	U	6/14/2020	6/14/2020
R202501-02	ug/L	500	62	130	500	1000	D		6/14/2020	6/14/2020
R202501-03	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202501-03	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202501-03	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202501-03	ug/L	0.5	0.11	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202501-03	% Recovery	0.5	0.19	0.25	0.5	1			6/14/2020	6/14/2020
R202501-03	% Recovery	0.5		0.25	0.5	1			6/14/2020	6/14/2020
R202501-03	% Recovery	0.5	0.24	0.25	0.5	1			6/14/2020	6/14/2020
R202501-03	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202501-03	ug/L	2	0.14	0.25	2	1	U	U	6/14/2020	6/14/2020
R202501-03	ug/L	0.5	0.14	0.25	0.5	1	U	U	6/14/2020	6/14/2020
R202501-03	ug/L	0.5	0.062	0.13	0.5	1	U	U	6/14/2020	6/14/2020
R202502-01	ug/kg dry	25	5.8	13	25	1	U	U	6/14/2020	6/14/2020
R202502-01	ug/kg dry	25	8.1	13	25	1	U	U	6/14/2020	6/14/2020
R202502-01	ug/kg dry	25	4.6	13	25	1	U	U	6/14/2020	6/14/2020
R202502-01	% Recovery	1300	5.1	25	1300	1	U	U	6/14/2020	6/14/2020
R202502-01	% Recovery	0.51		0.25	0.51	1			6/14/2020	6/14/2020
R202502-01	% Recovery	1300	5.6	25	1300	1	U	U	6/14/2020	6/14/2020
R202502-01	ug/kg dry	25	5.9	13	25	1	U	U	6/14/2020	6/14/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	100
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	75-34-3	Y	1,1-Dichloroethane	25
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	25
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	25
R202502-01	DPT-034 (8-9)	Soil	6/14/2020	6/14/2020	NA	Y	% Solids	86.9
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	34
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	34
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	34
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	96.3
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	93.7
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	91.2
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	34
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	140
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	75-34-3	Y	1,1-Dichloroethane	34
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	34
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	34
R202502-02	DPT-034 (15-16)	Soil	6/14/2020	6/14/2020	NA	Y	% Solids	86.4
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	28
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	94.5
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90.1
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	84.5
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	28
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	110
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	75-34-3	Y	1,1-Dichloroethane	28
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	28
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	28
R202502-03	DPT-034 (18-19)	Soil	6/14/2020	6/14/2020	NA	Y	% Solids	84
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	30
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	30
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	30
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	91

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202502-01	ug/kg dry	100	7.1	13	100	1	U	U	6/14/2020	6/14/2020
R202502-01	ug/kg dry	25	9.4	13	25	1	U	U	6/14/2020	6/14/2020
R202502-01	ug/kg dry	25	7.4	13	25	1	U	U	6/14/2020	6/14/2020
R202502-01	ug/kg dry	25	4.2	13	25	1	U	U	6/14/2020	6/14/2020
R202502-01	% by Weight	0	0		0	1			6/14/2020	6/15/2020
R202502-02	ug/kg dry	34	7.8	17	34	1	U	U	6/14/2020	6/14/2020
R202502-02	ug/kg dry	34	11	17	34	1	U	U	6/14/2020	6/14/2020
R202502-02	ug/kg dry	34	6.1	17	34	1	U	U	6/14/2020	6/14/2020
R202502-02	% Recovery	1700	6.8	34	1700	1	U	U	6/14/2020	6/14/2020
R202502-02	% Recovery	0.68		0.34	0.68	1			6/14/2020	6/14/2020
R202502-02	% Recovery	1700	7.5	34	1700	1	U	U	6/14/2020	6/14/2020
R202502-02	ug/kg dry	34	7.9	17	34	1	U	U	6/14/2020	6/14/2020
R202502-02	ug/kg dry	140	9.6	17	140	1	U	U	6/14/2020	6/14/2020
R202502-02	ug/kg dry	34	13	17	34	1	U	U	6/14/2020	6/14/2020
R202502-02	ug/kg dry	34	10	17	34	1	U	U	6/14/2020	6/14/2020
R202502-02	ug/kg dry	34	5.6	17	34	1	U	U	6/14/2020	6/14/2020
R202502-02	% by Weight	0	0		0	1			6/14/2020	6/15/2020
R202502-03	ug/kg dry	28	6.5	14	28	1	U	U	6/14/2020	6/14/2020
R202502-03	ug/kg dry	28	9.1	14	28	1	U	U	6/14/2020	6/14/2020
R202502-03	ug/kg dry	28	5.1	14	28	1	U	U	6/14/2020	6/14/2020
R202502-03	% Recovery	1400	5.7	28	1400	1	U	U	6/14/2020	6/14/2020
R202502-03	% Recovery	0.57		0.28	0.57	1			6/14/2020	6/14/2020
R202502-03	% Recovery	1400	6.3	28	1400	1	U	U	6/14/2020	6/14/2020
R202502-03	ug/kg dry	28	6.6	14	28	1	U	U	6/14/2020	6/14/2020
R202502-03	ug/kg dry	110	8	14	110	1	U	U	6/14/2020	6/14/2020
R202502-03	ug/kg dry	28	11	14	28	1	U	U	6/14/2020	6/14/2020
R202502-03	ug/kg dry	28	8.3	14	28	1	U	U	6/14/2020	6/14/2020
R202502-03	ug/kg dry	28	4.7	14	28	1	U	U	6/14/2020	6/14/2020
R202502-03	% by Weight	0	0		0	1			6/14/2020	6/15/2020
R202502-04	ug/kg dry	30	6.9	15	30	1	U	U	6/14/2020	6/14/2020
R202502-04	ug/kg dry	30	9.6	15	30	1	U	U	6/14/2020	6/14/2020
R202502-04	ug/kg dry	30	5.4	15	30	1	U	U	6/14/2020	6/14/2020
R202502-04	% Recovery	1500	6	30	1500	1	U	U	6/14/2020	6/14/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	86.8
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	82.4
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	30
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	120
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	75-34-3	Y	1,1-Dichloroethane	30
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	30
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	30
R202502-04	DPT-034 (22-23)	Soil	6/14/2020	6/14/2020	NA	Y	% Solids	87.7
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	28
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	97.3
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	91.7
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	91.7
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	28
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	110
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	75-34-3	Y	1,1-Dichloroethane	28
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	28
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	28
R202502-05	DPT-035 (10-11)	Soil	6/14/2020	6/14/2020	NA	Y	% Solids	84.8
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	34
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	34
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	34
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	92.9
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88.1
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	88.6
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	34
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	140
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	75-34-3	Y	1,1-Dichloroethane	34
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	34
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	34
R202502-06	DPT-035 (15-16)	Soil	6/14/2020	6/14/2020	NA	Y	% Solids	89.6
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	28

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202502-04	% Recovery	0.6		0.3	0.6	1			6/14/2020	6/14/2020
R202502-04	% Recovery	1500	6.6	30	1500	1	U	U	6/14/2020	6/14/2020
R202502-04	ug/kg dry	30	7	15	30	1	U	U	6/14/2020	6/14/2020
R202502-04	ug/kg dry	120	8.4	15	120	1	U	U	6/14/2020	6/14/2020
R202502-04	ug/kg dry	30	11	15	30	1	U	U	6/14/2020	6/14/2020
R202502-04	ug/kg dry	30	8.8	15	30	1	U	U	6/14/2020	6/14/2020
R202502-04	ug/kg dry	30	4.9	15	30	1	U	U	6/14/2020	6/14/2020
R202502-04	% by Weight	0	0		0	1			6/14/2020	6/15/2020
R202502-05	ug/kg dry	28	6.4	14	28	1	U	U	6/14/2020	6/14/2020
R202502-05	ug/kg dry	28	8.9	14	28	1	U	U	6/14/2020	6/14/2020
R202502-05	ug/kg dry	28	5	14	28	1	U	U	6/14/2020	6/14/2020
R202502-05	% Recovery	1400	5.6	28	1400	1	U	U	6/14/2020	6/14/2020
R202502-05	% Recovery	0.56		0.28	0.56	1			6/14/2020	6/14/2020
R202502-05	% Recovery	1400	6.1	28	1400	1	U	U	6/14/2020	6/14/2020
R202502-05	ug/kg dry	28	6.5	14	28	1	U	U	6/14/2020	6/14/2020
R202502-05	ug/kg dry	110	7.8	14	110	1	U	U	6/14/2020	6/14/2020
R202502-05	ug/kg dry	28	10	14	28	1	U	U	6/14/2020	6/14/2020
R202502-05	ug/kg dry	28	8.1	14	28	1	U	U	6/14/2020	6/14/2020
R202502-05	ug/kg dry	28	4.6	14	28	1	U	U	6/14/2020	6/14/2020
R202502-05	% by Weight	0	0		0	1			6/14/2020	6/15/2020
R202502-06	ug/kg dry	34	7.8	17	34	1	U	U	6/14/2020	6/14/2020
R202502-06	ug/kg dry	34	11	17	34	1	U	U	6/14/2020	6/14/2020
R202502-06	ug/kg dry	34	6.1	17	34	1	U	U	6/14/2020	6/14/2020
R202502-06	% Recovery	1700	6.8	34	1700	1	U	U	6/14/2020	6/14/2020
R202502-06	% Recovery	0.68		0.34	0.68	1			6/14/2020	6/14/2020
R202502-06	% Recovery	1700	7.5	34	1700	1	U	U	6/14/2020	6/14/2020
R202502-06	ug/kg dry	34	7.9	17	34	1	U	U	6/14/2020	6/14/2020
R202502-06	ug/kg dry	140	9.5	17	140	1	U	U	6/14/2020	6/14/2020
R202502-06	ug/kg dry	34	13	17	34	1	U	U	6/14/2020	6/14/2020
R202502-06	ug/kg dry	34	10	17	34	1	U	U	6/14/2020	6/14/2020
R202502-06	ug/kg dry	34	5.6	17	34	1	U	U	6/14/2020	6/14/2020
R202502-06	% by Weight	0	0		0	1			6/14/2020	6/15/2020
R202502-07	ug/kg dry	28	6.4	14	28	1	U	U	6/14/2020	6/14/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	92.1
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	91.7
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	89.5
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	28
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	110
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	75-34-3	Y	1,1-Dichloroethane	28
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	28
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	28
R202502-07	DPT-035 (18-19)	Soil	6/14/2020	6/14/2020	NA	Y	% Solids	88
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	127-18-4	Y	Tetrachloroethene	33
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	156-59-2	Y	cis-1,2-Dichloroethene	33
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	156-60-5	Y	trans-1,2-Dichloroethene	33
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	2037-26-5	Y	Toluene-d8 (surr)	88.8
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88.9
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	86.1
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	75-01-4	Y	Vinyl chloride	33
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	75-09-2	Y	Methylene chloride	130
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	75-34-3	Y	1,1-Dichloroethane	33
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	75-35-4	Y	1,1-Dichloroethene	33
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	79-01-6	Y	Trichloroethene	33
R202502-08	DPT-035 (21-22)	Soil	6/14/2020	6/14/2020	NA	Y	% Solids	89.1
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	107-06-2	Y	1,2-Dichloroethane	0.5
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	0.5
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	78
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	0.94
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	95
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88.6
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87.1
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	0.5
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	2
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	2.2

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202502-07	ug/kg dry	28	9	14	28	1	U	U	6/14/2020	6/14/2020
R202502-07	ug/kg dry	28	5.1	14	28	1	U	U	6/14/2020	6/14/2020
R202502-07	% Recovery	1400	5.6	28	1400	1	U	U	6/14/2020	6/14/2020
R202502-07	% Recovery	0.56		0.28	0.56	1			6/14/2020	6/14/2020
R202502-07	% Recovery	1400	6.2	28	1400	1	U	U	6/14/2020	6/14/2020
R202502-07	ug/kg dry	28	6.5	14	28	1	U	U	6/14/2020	6/14/2020
R202502-07	ug/kg dry	110	7.9	14	110	1	U	U	6/14/2020	6/14/2020
R202502-07	ug/kg dry	28	10	14	28	1	U	U	6/14/2020	6/14/2020
R202502-07	ug/kg dry	28	8.2	14	28	1	U	U	6/14/2020	6/14/2020
R202502-07	ug/kg dry	28	4.6	14	28	1	U	U	6/14/2020	6/14/2020
R202502-07	% by Weight	0	0		0	1			6/14/2020	6/15/2020
R202502-08	ug/kg dry	33	7.4	16	33	1	U	U	6/14/2020	6/14/2020
R202502-08	ug/kg dry	33	10	16	33	1	U	U	6/14/2020	6/14/2020
R202502-08	ug/kg dry	33	5.9	16	33	1	U	U	6/14/2020	6/14/2020
R202502-08	% Recovery	1600	6.5	33	1600	1	U	U	6/14/2020	6/14/2020
R202502-08	% Recovery	0.65		0.33	0.65	1			6/14/2020	6/14/2020
R202502-08	% Recovery	1600	7.2	33	1600	1	U	U	6/14/2020	6/14/2020
R202502-08	ug/kg dry	33	7.5	16	33	1	U	U	6/14/2020	6/14/2020
R202502-08	ug/kg dry	130	9.1	16	130	1	U	U	6/14/2020	6/14/2020
R202502-08	ug/kg dry	33	12	16	33	1	U	U	6/14/2020	6/14/2020
R202502-08	ug/kg dry	33	9.5	16	33	1	U	U	6/14/2020	6/14/2020
R202502-08	ug/kg dry	33	5.3	16	33	1	U	U	6/14/2020	6/14/2020
R202502-08	% by Weight	0	0		0	1			6/14/2020	6/15/2020
R202503-01	ug/L	0.5	0.078	0.25	0.5	1	U	U	6/15/2020	6/15/2020
R202503-01	ug/L	0.5	0.081	0.25	0.5	1	U	U	6/15/2020	6/15/2020
R202503-01	ug/L	50	11	25	50	100	D		6/15/2020	6/15/2020
R202503-01	ug/L	0.5	0.11	0.25	0.5	1			6/15/2020	6/15/2020
R202503-01	% Recovery	0.5	0.19	0.25	0.5	1			6/15/2020	6/15/2020
R202503-01	% Recovery	0.5		0.25	0.5	1			6/15/2020	6/15/2020
R202503-01	% Recovery	0.5	0.24	0.25	0.5	1			6/15/2020	6/15/2020
R202503-01	ug/L	0.5	0.16	0.25	0.5	1	U	U	6/15/2020	6/15/2020
R202503-01	ug/L	2	0.14	0.25	2	1	U	U	6/15/2020	6/15/2020
R202503-01	ug/L	0.5	0.14	0.25	0.5	1			6/15/2020	6/15/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202503-01	DPT-035 (49.5)	Water	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	2400
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	28
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	28
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	28
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	93.6
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	87.9
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87.1
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	28
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	110
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	28
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	28
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	28
R202504-01	DPT-036 (11-12)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	89.4
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	29
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	85.6
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	83.3
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	81.5
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	29
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	120
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	29
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	29
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	29
R202504-02	DPT-036 (15-16)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	85.1
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	31
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	31
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	31
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	85.2
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	81.9
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	78
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	31
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	120

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202503-01	ug/L	50	6.2	13	50	100	D		6/15/2020	6/15/2020
R202504-01	ug/kg dry	28	6.4	14	28	1	U	U	6/15/2020	6/15/2020
R202504-01	ug/kg dry	28	8.9	14	28	1	U	U	6/15/2020	6/15/2020
R202504-01	ug/kg dry	28	5	14	28	1	U	U	6/15/2020	6/15/2020
R202504-01	% Recovery	1400	5.6	28	1400	1	U	U	6/15/2020	6/15/2020
R202504-01	% Recovery	0.56		0.28	0.56	1			6/15/2020	6/15/2020
R202504-01	% Recovery	1400	6.1	28	1400	1	U	U	6/15/2020	6/15/2020
R202504-01	ug/kg dry	28	6.5	14	28	1	U	U	6/15/2020	6/15/2020
R202504-01	ug/kg dry	110	7.8	14	110	1	U	U	6/15/2020	6/15/2020
R202504-01	ug/kg dry	28	10	14	28	1	U	U	6/15/2020	6/15/2020
R202504-01	ug/kg dry	28	8.2	14	28	1	U	U	6/15/2020	6/15/2020
R202504-01	ug/kg dry	28	4.6	14	28	1	U	U	6/15/2020	6/15/2020
R202504-01	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-02	ug/kg dry	29	6.6	15	29	1	U	U	6/15/2020	6/15/2020
R202504-02	ug/kg dry	29	9.3	15	29	1	U	U	6/15/2020	6/15/2020
R202504-02	ug/kg dry	29	5.2	15	29	1	U	U	6/15/2020	6/15/2020
R202504-02	% Recovery	1500	5.8	29	1500	1	U	U	6/15/2020	6/15/2020
R202504-02	% Recovery	0.58		0.29	0.58	1			6/15/2020	6/15/2020
R202504-02	% Recovery	1500	6.4	29	1500	1	U	U	6/15/2020	6/15/2020
R202504-02	ug/kg dry	29	6.7	15	29	1	U	U	6/15/2020	6/15/2020
R202504-02	ug/kg dry	120	8.1	15	120	1	U	U	6/15/2020	6/15/2020
R202504-02	ug/kg dry	29	11	15	29	1	U	U	6/15/2020	6/15/2020
R202504-02	ug/kg dry	29	8.5	15	29	1	U	U	6/15/2020	6/15/2020
R202504-02	ug/kg dry	29	4.8	15	29	1	U	U	6/15/2020	6/15/2020
R202504-02	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-03	ug/kg dry	31	7	15	31	1	U	U	6/15/2020	6/15/2020
R202504-03	ug/kg dry	31	9.8	15	31	1	U	U	6/15/2020	6/15/2020
R202504-03	ug/kg dry	31	5.5	15	31	1	U	U	6/15/2020	6/15/2020
R202504-03	% Recovery	1500	6.1	31	1500	1	U	U	6/15/2020	6/15/2020
R202504-03	% Recovery	0.61		0.31	0.61	1			6/15/2020	6/15/2020
R202504-03	% Recovery	1500	6.7	31	1500	1	U	U	6/15/2020	6/15/2020
R202504-03	ug/kg dry	31	7.1	15	31	1	U	U	6/15/2020	6/15/2020
R202504-03	ug/kg dry	120	8.6	15	120	1	U	U	6/15/2020	6/15/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	31
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	31
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	31
R202504-03	DPT-036 (18-19)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	82.7
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	29
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	88.4
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	83.7
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	29
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	120
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	29
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	29
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	29
R202504-04	DPT-036 (21-22)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	92.1
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	26
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	26
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	26
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	97.9
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	96.8
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	93.9
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	26
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	100
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	26
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	26
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	26
R202504-05	DPT-037 (11-12)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	88.9
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	29
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	29
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	29
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	94.7
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	90.3

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202504-03	ug/kg dry	31	11	15	31	1	U	U	6/15/2020	6/15/2020
R202504-03	ug/kg dry	31	8.9	15	31	1	U	U	6/15/2020	6/15/2020
R202504-03	ug/kg dry	31	5	15	31	1	U	U	6/15/2020	6/15/2020
R202504-03	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-04	ug/kg dry	29	6.6	15	29	1	U	U	6/15/2020	6/15/2020
R202504-04	ug/kg dry	29	9.3	15	29	1	U	U	6/15/2020	6/15/2020
R202504-04	ug/kg dry	29	5.2	15	29	1	U	U	6/15/2020	6/15/2020
R202504-04	% Recovery	1500	5.8	29	1500	1	U	U	6/15/2020	6/15/2020
R202504-04	% Recovery	0.58		0.29	0.58	1			6/15/2020	6/15/2020
R202504-04	% Recovery	1500	6.4	29	1500	1	U	U	6/15/2020	6/15/2020
R202504-04	ug/kg dry	29	6.7	15	29	1	U	U	6/15/2020	6/15/2020
R202504-04	ug/kg dry	120	8.1	15	120	1	U	U	6/15/2020	6/15/2020
R202504-04	ug/kg dry	29	11	15	29	1	U	U	6/15/2020	6/15/2020
R202504-04	ug/kg dry	29	8.5	15	29	1	U	U	6/15/2020	6/15/2020
R202504-04	ug/kg dry	29	4.8	15	29	1	U	U	6/15/2020	6/15/2020
R202504-04	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-05	ug/kg dry	26	6	13	26	1	U	U	6/15/2020	6/15/2020
R202504-05	ug/kg dry	26	8.4	13	26	1	U	U	6/15/2020	6/15/2020
R202504-05	ug/kg dry	26	4.7	13	26	1	U	U	6/15/2020	6/15/2020
R202504-05	% Recovery	1300	5.2	26	1300	1	U	U	6/15/2020	6/15/2020
R202504-05	% Recovery	0.52		0.26	0.52	1			6/15/2020	6/15/2020
R202504-05	% Recovery	1300	5.8	26	1300	1	U	U	6/15/2020	6/15/2020
R202504-05	ug/kg dry	26	6.1	13	26	1	U	U	6/15/2020	6/15/2020
R202504-05	ug/kg dry	100	7.3	13	100	1	U	U	6/15/2020	6/15/2020
R202504-05	ug/kg dry	26	9.7	13	26	1	U	U	6/15/2020	6/15/2020
R202504-05	ug/kg dry	26	7.6	13	26	1	U	U	6/15/2020	6/15/2020
R202504-05	ug/kg dry	26	4.3	13	26	1	U	U	6/15/2020	6/15/2020
R202504-05	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-06	ug/kg dry	29	6.6	14	29	1	U	U	6/15/2020	6/15/2020
R202504-06	ug/kg dry	29	9.2	14	29	1	U	U	6/15/2020	6/15/2020
R202504-06	ug/kg dry	29	5.2	14	29	1	U	U	6/15/2020	6/15/2020
R202504-06	% Recovery	1400	5.8	29	1400	1	U	U	6/15/2020	6/15/2020
R202504-06	% Recovery	0.58		0.29	0.58	1			6/15/2020	6/15/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	87.7
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	29
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	120
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	29
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	29
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	29
R202504-06	DPT-037 (14-15)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	87.3
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	23
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	23
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	23
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	91.5
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	89.5
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	86.8
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	23
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	92
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	23
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	23
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	23
R202504-07	DPT-037 (18-19)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	92.4
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	25
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	25
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	25
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	89.9
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	89.6
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	86.6
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	25
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	100
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	25
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	25
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	25
R202504-08	DPT-037 (21-22)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	88.4
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	24
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	24

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202504-06	% Recovery	1400	6.3	29	1400	1	U	U	6/15/2020	6/15/2020
R202504-06	ug/kg dry	29	6.7	14	29	1	U	U	6/15/2020	6/15/2020
R202504-06	ug/kg dry	120	8.1	14	120	1	U	U	6/15/2020	6/15/2020
R202504-06	ug/kg dry	29	11	14	29	1	U	U	6/15/2020	6/15/2020
R202504-06	ug/kg dry	29	8.4	14	29	1	U	U	6/15/2020	6/15/2020
R202504-06	ug/kg dry	29	4.7	14	29	1	U	U	6/15/2020	6/15/2020
R202504-06	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-07	ug/kg dry	23	5.3	12	23	1	U	U	6/15/2020	6/15/2020
R202504-07	ug/kg dry	23	7.4	12	23	1	U	U	6/15/2020	6/15/2020
R202504-07	ug/kg dry	23	4.1	12	23	1	U	U	6/15/2020	6/15/2020
R202504-07	% Recovery	1200	4.6	23	1200	1	U	U	6/15/2020	6/15/2020
R202504-07	% Recovery	0.46		0.23	0.46	1			6/15/2020	6/15/2020
R202504-07	% Recovery	1200	5.1	23	1200	1	U	U	6/15/2020	6/15/2020
R202504-07	ug/kg dry	23	5.3	12	23	1	U	U	6/15/2020	6/15/2020
R202504-07	ug/kg dry	92	6.4	12	92	1	U	U	6/15/2020	6/15/2020
R202504-07	ug/kg dry	23	8.6	12	23	1	U	U	6/15/2020	6/15/2020
R202504-07	ug/kg dry	23	6.7	12	23	1	U	U	6/15/2020	6/15/2020
R202504-07	ug/kg dry	23	3.8	12	23	1	U	U	6/15/2020	6/15/2020
R202504-07	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-08	ug/kg dry	25	5.8	13	25	1	U	U	6/15/2020	6/15/2020
R202504-08	ug/kg dry	25	8.1	13	25	1	U	U	6/15/2020	6/15/2020
R202504-08	ug/kg dry	25	4.6	13	25	1	U	U	6/15/2020	6/15/2020
R202504-08	% Recovery	1300	5.1	25	1300	1	U	U	6/15/2020	6/15/2020
R202504-08	% Recovery	0.51		0.25	0.51	1			6/15/2020	6/15/2020
R202504-08	% Recovery	1300	5.6	25	1300	1	U	U	6/15/2020	6/15/2020
R202504-08	ug/kg dry	25	5.9	13	25	1	U	U	6/15/2020	6/15/2020
R202504-08	ug/kg dry	100	7.1	13	100	1	U	U	6/15/2020	6/15/2020
R202504-08	ug/kg dry	25	9.4	13	25	1	U	U	6/15/2020	6/15/2020
R202504-08	ug/kg dry	25	7.4	13	25	1	U	U	6/15/2020	6/15/2020
R202504-08	ug/kg dry	25	4.2	13	25	1	U	U	6/15/2020	6/15/2020
R202504-08	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-09	ug/kg dry	24	5.5	12	24	1	U	U	6/15/2020	6/15/2020
R202504-09	ug/kg dry	24	7.7	12	24	1	U	U	6/15/2020	6/15/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	24
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	88.3
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88.9
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.2
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	24
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	97
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	24
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	24
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	24
R202504-09	DPT-038 (11-12)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	91.6
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	27
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	27
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	95.1
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	94
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	95
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	27
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	110
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	27
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	27
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	27
R202504-10	DPT-038 (15-16)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	89.7
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	27
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	27
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	27
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	91.7
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	87.5
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	88.8
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	27
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	110
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	27
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	27
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	27

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202504-09	ug/kg dry	24	4.4	12	24	1	U	U	6/15/2020	6/15/2020
R202504-09	% Recovery	1200	4.8	24	1200	1	U	U	6/15/2020	6/15/2020
R202504-09	% Recovery	0.48		0.24	0.48	1			6/15/2020	6/15/2020
R202504-09	% Recovery	1200	5.3	24	1200	1	U	U	6/15/2020	6/15/2020
R202504-09	ug/kg dry	24	5.6	12	24	1	U	U	6/15/2020	6/15/2020
R202504-09	ug/kg dry	97	6.8	12	97	1	U	U	6/15/2020	6/15/2020
R202504-09	ug/kg dry	24	9	12	24	1	U	U	6/15/2020	6/15/2020
R202504-09	ug/kg dry	24	7.1	12	24	1	U	U	6/15/2020	6/15/2020
R202504-09	ug/kg dry	24	4	12	24	1	U	U	6/15/2020	6/15/2020
R202504-09	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-10	ug/kg dry	27	6.1	13	27	1	U	U	6/15/2020	6/15/2020
R202504-10	ug/kg dry	27	8.5	13	27	1	U	U	6/15/2020	6/15/2020
R202504-10	ug/kg dry	27	4.8	13	27	1	U	U	6/15/2020	6/15/2020
R202504-10	% Recovery	1300	5.3	27	1300	1	U	U	6/15/2020	6/15/2020
R202504-10	% Recovery	0.53		0.27	0.53	1			6/15/2020	6/15/2020
R202504-10	% Recovery	1300	5.8	27	1300	1	U	U	6/15/2020	6/15/2020
R202504-10	ug/kg dry	27	6.2	13	27	1	U	U	6/15/2020	6/15/2020
R202504-10	ug/kg dry	110	7.4	13	110	1	U	U	6/15/2020	6/15/2020
R202504-10	ug/kg dry	27	9.9	13	27	1	U	U	6/15/2020	6/15/2020
R202504-10	ug/kg dry	27	7.8	13	27	1	U	U	6/15/2020	6/15/2020
R202504-10	ug/kg dry	27	4.4	13	27	1	U	U	6/15/2020	6/15/2020
R202504-10	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-11	ug/kg dry	27	6.1	13	27	1	U	U	6/15/2020	6/15/2020
R202504-11	ug/kg dry	27	8.5	13	27	1	U	U	6/15/2020	6/15/2020
R202504-11	ug/kg dry	27	4.8	13	27	1	U	U	6/15/2020	6/15/2020
R202504-11	% Recovery	1300	5.3	27	1300	1	U	U	6/15/2020	6/15/2020
R202504-11	% Recovery	0.53		0.27	0.53	1			6/15/2020	6/15/2020
R202504-11	% Recovery	1300	5.9	27	1300	1	U	U	6/15/2020	6/15/2020
R202504-11	ug/kg dry	27	6.2	13	27	1	U	U	6/15/2020	6/15/2020
R202504-11	ug/kg dry	110	7.4	13	110	1	U	U	6/15/2020	6/15/2020
R202504-11	ug/kg dry	27	9.9	13	27	1	U	U	6/15/2020	6/15/2020
R202504-11	ug/kg dry	27	7.8	13	27	1	U	U	6/15/2020	6/15/2020
R202504-11	ug/kg dry	27	4.4	13	27	1	U	U	6/15/2020	6/15/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202504-11	DPT-038 (18-19)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	88.6
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	127-18-4	Y	Tetrachloroethene	24
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	156-59-2	Y	cis-1,2-Dichloroethene	24
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	156-60-5	Y	trans-1,2-Dichloroethene	24
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	2037-26-5	Y	Toluene-d8 (surr)	115
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	106
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	108
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	75-01-4	Y	Vinyl chloride	24
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	75-09-2	Y	Methylene chloride	98
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	75-34-3	Y	1,1-Dichloroethane	24
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	75-35-4	Y	1,1-Dichloroethene	24
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	79-01-6	Y	Trichloroethene	24
R202504-12	DPT-038 (22-23)	Soil	6/15/2020	6/15/2020	NA	Y	% Solids	88
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	107-06-2	Y	1,2-Dichloroethane	2.5
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	127-18-4	Y	Tetrachloroethene	2.5
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	156-59-2	Y	cis-1,2-Dichloroethene	2.5
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	156-60-5	Y	trans-1,2-Dichloroethene	2.5
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	2037-26-5	Y	Toluene-d8 (surr)	92.1
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	89.4
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	85.3
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	75-01-4	Y	Vinyl chloride	2.5
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	75-09-2	Y	Methylene chloride	10
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	75-35-4	Y	1,1-Dichloroethene	2.5
R202505-01	DPT-035 (33)	Water	6/16/2020	6/16/2020	79-01-6	Y	Trichloroethene	59
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	107-06-2	Y	1,2-Dichloroethane	2.5
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	127-18-4	Y	Tetrachloroethene	2.5
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	156-59-2	Y	cis-1,2-Dichloroethene	2.5
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	156-60-5	Y	trans-1,2-Dichloroethene	2.5
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	2037-26-5	Y	Toluene-d8 (surr)	94
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	2199-69-1	Y	1,2-Dichlorobenzene-d4 (surr)	88
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	460-00-4	Y	4-Bromofluorobenzene (surr)	86.4
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	75-01-4	Y	Vinyl chloride	2.5
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	75-09-2	Y	Methylene chloride	10

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202504-11	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202504-12	ug/kg dry	24	5.6	12	24	1	U	U	6/15/2020	6/16/2020
R202504-12	ug/kg dry	24	7.8	12	24	1	U	U	6/15/2020	6/16/2020
R202504-12	ug/kg dry	24	4.4	12	24	1	U	U	6/15/2020	6/16/2020
R202504-12	% Recovery	1200	4.9	24	1200	1	S, U	U	6/15/2020	6/16/2020
R202504-12	% Recovery	0.49		0.24	0.49	1			6/15/2020	6/16/2020
R202504-12	% Recovery	1200	5.4	24	1200	1	U	U	6/15/2020	6/16/2020
R202504-12	ug/kg dry	24	5.7	12	24	1	U	U	6/15/2020	6/16/2020
R202504-12	ug/kg dry	98	6.8	12	98	1	U	U	6/15/2020	6/16/2020
R202504-12	ug/kg dry	24	9.1	12	24	1	U	U	6/15/2020	6/16/2020
R202504-12	ug/kg dry	24	7.1	12	24	1	U	U	6/15/2020	6/16/2020
R202504-12	ug/kg dry	24	4	12	24	1	U	U	6/15/2020	6/16/2020
R202504-12	% by Weight	0	0		0	1			6/15/2020	6/16/2020
R202505-01	ug/L	2.5	0.39	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-01	ug/L	2.5	0.41	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-01	ug/L	2.5	0.55	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-01	ug/L	2.5	0.55	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-01	% Recovery	0.5	0.19	0.25	0.5	1			6/16/2020	6/16/2020
R202505-01	% Recovery	0.5		0.25	0.5	1			6/16/2020	6/16/2020
R202505-01	% Recovery	0.5	0.24	0.25	0.5	1			6/16/2020	6/16/2020
R202505-01	ug/L	2.5	0.8	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-01	ug/L	10	0.7	1.3	10	5	U	U	6/16/2020	6/16/2020
R202505-01	ug/L	2.5	0.7	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-01	ug/L	2.5	0.31	0.63	2.5	5	D		6/16/2020	6/16/2020
R202505-02	ug/L	2.5	0.39	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-02	ug/L	2.5	0.41	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-02	ug/L	2.5	0.55	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-02	ug/L	2.5	0.55	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-02	% Recovery	0.5	0.19	0.25	0.5	1			6/16/2020	6/16/2020
R202505-02	% Recovery	0.5		0.25	0.5	1			6/16/2020	6/16/2020
R202505-02	% Recovery	0.5	0.24	0.25	0.5	1			6/16/2020	6/16/2020
R202505-02	ug/L	2.5	0.8	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-02	ug/L	10	0.7	1.3	10	5	U	U	6/16/2020	6/16/2020

Sample	Client_Sample_No	Matrix	Sampled	Date_Received	CASNUMB	Report?	Analyte	Result
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	75-35-4	Y	1,1-Dichloroethene	2.5
R202505-02	DPT-037 (33)	Water	6/16/2020	6/16/2020	79-01-6	Y	Trichloroethene	2.5

Sample	UNITS	Reporting_	MDL	DOD_LOD	DOD_LOQ	Dilution	Qualifiers	Final Quali	Extraction_Da	Analysis_Date
R202505-02	ug/L	2.5	0.7	1.3	2.5	5	U	U	6/16/2020	6/16/2020
R202505-02	ug/L	2.5	0.31	0.63	2.5	5	U	U	6/16/2020	6/16/2020

DATA VALIDATION REPORT

Volatile Organic Compounds (VOCs) by USEPA SW-846 Method 8260B

Project:	USACE Longhorn Army Ammunition Plant (LHAAP), Texas Soils – July 2020
Project/Task Number:	10097916 8.0
Sample Data Package:	M0G1924
Laboratory:	Microbac Labs, Marietta, Ohio
Sample Matrix:	Groundwater
Sampling Dates:	23 July 2020
Validation Guidelines:	Project QAPP *(Final Quality Assurance Project Plan for Longhorn Army Ammunition Plant, Karnack, Texas [July 2014]*); United States Environmental Protection Agency (USEPA) *Test Methods for Evaluating Solid Waste, Physical/Chemical Meth*ods, *3rd edition* (SW-846); *National Functional Guidelines for Organic Superfund Data Review (USEPA, September 2016)* and professional judgment
Validation Level:	Stage 2BVM (100% of data), Stage 3VM (10% of data)
Data Reviewer:	Lynn K. Lutz, HDR

Sample ID	Lab ID	Date	Matrix	VOCs
47WW48	M0G1924-05	23 July 2020	GW	X
47WW49	M0G1924-06	23 July 2020	GW	X
47WW50	M0G1924-07	23 July 2020	GW	X
47WW51	M0G1924-08	23 July 2020	GW	X
47WW52	M0G1924-03	23 July 2020	GW	X
47WW53	M0G1924-04	23 July 2020	GW	X
47WW54	M0G1924-01	23 July 2020	GW	X
47WW55	M0G1924-02	23 July 2020	GW	X
EB-05	M0G1924-09	23 July 2020	QC Water	X
TB-03	M0G1924-10	23 July 2020	QC Water	X

SUMMARY

One hundred percent of the data underwent Stage 2BVM level validation. Ten percent of the data underwent Stage 3VM level validation.

Laboratory data were acceptable with qualification as noted below. No data were rejected. Completeness was 100%, which met the goal of 90% for the project.

I. SAMPLE RECEIPT / CHAIN OF CUSTODY

The chains of custody (COC) were filled out and signed. Samples were received within the correct temperature range (at 1.9°C). No qualification was required.

II. SAMPLES ANALYZED

All planned samples were collected and all scheduled analyses were performed. The correct analyte lists were reported. No qualification was required.

VOCs: Samples were analyzed by USEPA SW-846 Method 8260B.

III. HOLDING TIMES AND PRESERVATION

All holding time criteria were met and no qualification was required except as noted below.

VOCs: All samples were at pH <2 at the time of analysis and were analyzed within 14 days of collection. No qualification was required.

IV. BLANKS

METHOD BLANKS (MBs)

VOCs: Trichloroethene was detected at a trace level in one MB. Sample results were higher and no qualification was required.

TRIP BLANKS (TBs)

VOCs: VOCs were not detected in the TB. No qualification was required.

EQUIPMENT RINSE BLANK (EB)

VOCs: Chloroform was detected in the EB at 1.33 µg/L. Some sample results required qualification as shown below.

Analyte	EB Conc	Sample	Sample Conc	Qualifier
Chloroform	1.33 µg/L	47WW48	66.1 µg/L	None
		47WW49	79 µg/L @ 100X dilution = 0.79 µg/L raw	J+
		47WW51	0.220 µg/L	J+
		47WW54	0.18 µg/L	J+
		47WW55	0.90 µg/L	J+

V. LABORATORY CONTROL SAMPLES / LABORATORY CONTROL SAMPLE DUPLICATE (LCS/LCSD)

VOCs: Recoveries were generally within control limits except as noted below. Some other recoveries were outside control limits but sample results did not require qualification.

LCS ID	Analyte	Recovery	Control Limits	Associated Samples	Qualifier
B0G1490	All OK				None
B0G1543	Bromomethane	OK, 143%	55-141%	All	None – ND
	Chloroethane	OK, 169% RPD 22%	60-138% RPD 20%	All	None - ND
B0G1631	Bromomethane	145%, OK	55-141%	None reported	None
	Vinyl chloride	144%, OK	58-137%	None reported	None

VI. MATRIX SPIKE / MATRIX SPIKE DUPLICATE (MS/MSD)

VOCs: No samples were designated on the COC for MS/MSD analysis. The lab did not spike any samples from this project. No qualification was required.

VI. DILUTION TEST AND POST DIGESTION SPIKE (PDS)

A dilution test was performed for analytes detected at least 50 times the concentration of the MRL, and results agreed within ten percent. A post digestion spike (PDS) was performed on samples and the recoveries were between 80 and 120 percent except as noted below. These tests are applicable only to metals by SW6010C and SW6020.

VOCs: Not applicable.

VIII. FIELD DUPLICATES

No field duplicate (FD) sample was collected. No qualification was required.

IX. LABORATORY DUPLICATES

Laboratory duplicate (LD) analyses were not performed on any samples from this project.

X. INSTRUMENT CALIBRATION

INITIAL CALIBRATION

VOCs: The calibration curve included a standard at or below the LOQ. Calibration requirements were met. No qualification was required.

INITIAL CALIBRATION VERIFICATION (ICV)

VOCs: Some analytes had percent difference (%D) values above the required limit of 20% and the associated samples required qualification as shown in the table below.

Instrument	Analyte	%D	Associated samples	Qualification
HPMS8	Vinyl acetate	+33%	All	UJ

CONTINUING CALIBRATION VERIFICATION (CCV)

VOCs: Some analytes had percent difference (%D) values above the required limit of 20% and the associated samples required qualification as shown in the table below.

CCV	Analyte	%D	Associated samples	Qualification
HPMS8 7/29/2020 11:48	Vinyl acetate	+21.5%	All	None - ND
HPMS8 7/30/2020 10:42	Bromomethane	+26%	All – dilutions	None – Not reported from this run
	Chloroethane	+24%		
	Vinyl acetate	+28%		
HPMS8 7/31/2020 10:23	Bromomethane	+28%	All – dilutions	None – Not reported from this run
	Chloroethane	+84%		
	Vinyl acetate	+34%		
HPMS8 7/31/2020 21:08	Chloroethane	+100%	All – dilutions	None – Not reported from this run

XI. SURROGATES AND INTERNAL STANDARDS

VOCs: Internal standard areas and retention times were within required limits. Surrogate recoveries were within control limits. No qualification was required.

XII. SAMPLE LIMITS OF QUANTITATION (LOQs)

Limits of quantitation (LOQs) should be less than the applicable project action levels (PALs) as listed in the project QAPP.

VOCs: LOQs were below the PALs except as shown below.

Analyte	Matrix	LOQ	Samples	TCEQ GW Ind MSC	MCL	QAPP LOQ
1,2,3-Trichloropropane	GW	2 µg/L	All	0.041 µg/L	--	2 µg/L
1,2-Dibromo-3-chloropropane (DBCP)	GW	4 µg/L	All	0.2 µg/L	0.2 µg/L	1 µg/L
1,2-Dibromoethane (EDB)	GW	1 µg/L	All	0.05 µg/L	--	1 µg/L

XIII. SAMPLE RESULTS / TRANSCRIPTION VERIFICATION

Transcription between the data package and the EDDs was verified. Results reported below the LOQs but above the DLs were qualified as estimated (J). Non-detect results were reported down to the limits of detection (LODs).

VOCs: No issues.

Microbac Laboratories Inc., - Marietta, OH

Client Project ID:

Longhorn

For:

Lynn Lutz

HDR

9781 S. Meridian Blvd Suite 400

Englewood, CO 80112

Project State of Origin: Texas

All test results meet the requirements of the QAPP and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. The reported results are related only to the samples analyzed as received. This laboratory report may be released as a hardcopy and in computer-readable form submitted electronically or on diskette. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, Inc.

Laboratory Project Manager:

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Authorized By:

Stephanie Mossburg

Stephanie Mossburg
Customer Relations Manager
Issued: 08/11/2020

Laboratory Report Number: M0G1924

Client Project ID: Longhorn

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 1.2ºC

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes

Client ID:	47WW54			**Collection Date:**	07/23/2020 09:35
Laboratory ID:	M0G1924-01			**Prep Date:**	07/29/2020 15:21
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:21
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435141.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
1,1,1,2-Tetrachloroethane	630-20-6	0.500	0.250	0.500	1.00	U	
1,1,1-Trichloroethane	71-55-6	0.500	0.250	0.500	1.00	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.400	0.200	0.400	0.800	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	4.00	2.00	4.00	8.00	U	
1,1,2-Trichloroethane	79-00-5	0.500	0.250	0.500	1.00	U	
1,1-Dichloroethane	75-34-3	0.250	0.125	0.250	0.500	U	
1,1-Dichloroethene	75-35-4	6.87	0.500	1.00	2.00		
1,1-Dichloropropene	563-58-6	0.500	0.250	0.500	1.00	U	
1,2,3-Trichlorobenzene	87-61-6	0.300	0.150	0.300	0.600	U	
1,2,3-Trichloropropane	96-18-4	1.00	0.500	1.00	2.00	U	
1,2,4-Trichlorobenzene	120-82-1	0.400	0.200	0.400	0.800	U	
1,2,4-Trimethylbenzene	95-63-6	0.500	0.250	0.500	1.00	U	
1,2-Dibromo-3-chloropropane	96-12-8	2.00	1.00	2.00	4.00	U	
1,2-Dibromoethane	106-93-4	0.500	0.250	0.500	1.00	U	
1,2-Dichlorobenzene	95-50-1	0.250	0.125	0.250	0.500	U	
1,2-Dichloroethane	107-06-2	0.500	0.250	0.500	1.00	U	
1,2-Dichloropropane	78-87-5	0.400	0.200	0.400	0.800	U	
1,3,5-Trimethylbenzene	108-67-8	0.500	0.250	0.500	1.00	U	
1,3-Dichlorobenzene	541-73-1	0.500	0.250	0.500	1.00	U	
1,3-Dichloropropane	142-28-9	0.400	0.200	0.400	0.800	U	
1,4-Dichlorobenzene	106-46-7	0.500	0.125	0.500	1.00	U	
2,2-Dichloropropane	594-20-7	0.500	0.250	0.500	1.00	U	
2-Butanone	78-93-3	5.00	2.50	5.00	10.0	U	
2-Chlorotoluene	95-49-8	0.250	0.125	0.250	0.500	U	
2-Hexanone	591-78-6	5.00	2.50	5.00	10.0	U	
4-Chlorotoluene	106-43-4	0.500	0.250	0.500	1.00	U	
4-Methyl-2-pentanone	108-10-1	5.00	2.50	5.00	10.0	U	
Acetone	67-64-1	5.00	2.50	5.00	10.0	U	
Benzene	71-43-2	0.250	0.125	0.250	0.500	U	
Bromobenzene	108-86-1	0.250	0.125	0.250	0.500	U	
Bromochloromethane	74-97-5	0.400	0.200	0.400	0.800	U	
Bromodichloromethane	75-27-4	0.500	0.250	0.500	1.00	U	
Bromoform	75-25-2	1.00	0.500	1.00	2.00	U	
Bromomethane	74-83-9	1.00	0.500	1.00	2.00	U	
Carbon disulfide	75-15-0	1.00	0.500	1.00	2.00	U	

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW54			**Collection Date:**	07/23/2020 09:35
Laboratory ID:	M0G1924-01			**Prep Date:**	07/29/2020 15:21
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:21
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435141.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Carbon tetrachloride	56-23-5	0.500	0.250	0.500	1.00	U	
Chlorobenzene	108-90-7	0.250	0.125	0.250	0.500	U	
Chlorodibromomethane	124-48-1	0.500	0.250	0.500	1.00	U	
Chloroethane (Ethyl chloride)	75-00-3	1.00	0.500	1.00	2.00	U	
Chloroform	67-66-3	0.180	0.125	0.250	0.500	J	
Chloromethane	74-87-3	1.00	0.500	1.00	2.00	U	
cis-1,2-Dichloroethene	156-59-2	107	0.250	0.500	1.00		
cis-1,3-Dichloropropene	10061-01-5	0.500	0.250	0.500	1.00	U	
Dibromomethane	74-95-3	0.500	0.250	0.500	1.00	U	
Dichlorodifluoromethane	75-71-8	0.500	0.250	0.500	1.00	U	
Ethylbenzene	100-41-4	0.500	0.250	0.500	1.00	U	
Hexachlorobutadiene	87-68-3	0.500	0.250	0.500	1.00	U	
Isopropylbenzene	98-82-8	0.500	0.250	0.500	1.00	U	
m-,p-Xylene	179601-23-1	1.00	0.500	1.00	2.00	U	
Methylene chloride	75-09-2	0.500	0.250	0.500	1.00	U	
Naphthalene	91-20-3	0.400	0.200	0.400	0.800	U	
n-Butylbenzene	104-51-8	0.500	0.250	0.500	1.00	U	
n-Propylbenzene	103-65-1	0.250	0.125	0.250	0.500	U	
o-Xylene	95-47-6	0.500	0.250	0.500	1.00	U	
p-Isopropyltoluene	99-87-6	0.500	0.250	0.500	1.00	U	
sec-Butylbenzene	135-98-8	0.500	0.250	0.500	1.00	U	
Styrene	100-42-5	0.250	0.125	0.250	0.500	U	
tert-Butylbenzene	98-06-6	0.500	0.250	0.500	1.00	U	
Tetrachloroethene	127-18-4	0.500	0.250	0.500	1.00	U	
Toluene	108-88-3	0.500	0.250	0.500	1.00	U	
trans-1,2-Dichloroethene	156-60-5	3.80	0.250	0.500	1.00		
trans-1,3-Dichloropropene	10061-02-6	1.00	0.500	1.00	2.00	U	
Trichlorofluoromethane	75-69-4	0.500	0.250	0.500	1.00	U	
Vinyl acetate	108-05-4	5.00	2.50	5.00	10.0	U	Q4, Q7
Vinyl chloride	75-01-4	1.32	0.250	0.500	1.00		

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW54			**Collection Date:**	07/23/2020 09:35
Laboratory ID:	M0G1924-01			**Prep Date:**	07/29/2020 15:21
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:21
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435141.D
Analyst:	EEA	**Dilution:**	1		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	103	80-119	% Rec			
Toluene-d8	97.1	89-112	% Rec			
1,2-Dichloroethane-d4	101	81-118	% Rec			
4-Bromofluorobenzene	102	85-114	% Rec			

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW54			**Collection Date:**	07/23/2020 09:35
Laboratory ID:	M0G1924-01RE1			**Prep Date:**	07/30/2020 17:24
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/30/2020 17:24
Batch / Sequence:	B0G1543 / S0G0523	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435201.D
Analyst:	EEA	**Dilution:**	100		

Sample Notes: D

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Trichloroethene	79-01-6	4860	25.0	50.0	100		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
4-Bromofluorobenzene	105	85-114	% Rec			
1,2-Dichloroethane-d4	102	81-118	% Rec			
Dibromofluoromethane	103	80-119	% Rec			
Toluene-d8	96.3	89-112	% Rec			

Client ID:	47WW55			**Collection Date:**	07/23/2020 10:45
Laboratory ID:	M0G1924-02			**Prep Date:**	07/29/2020 15:40
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:40
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435142.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
1,1,1,2-Tetrachloroethane	630-20-6	0.500	0.250	0.500	1.00	U	
1,1,1-Trichloroethane	71-55-6	0.500	0.250	0.500	1.00	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.400	0.200	0.400	0.800	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	4.00	2.00	4.00	8.00	U	
1,1,2-Trichloroethane	79-00-5	0.500	0.250	0.500	1.00	U	
1,1-Dichloroethane	75-34-3	0.250	0.125	0.250	0.500	U	
1,1-Dichloroethene	75-35-4	0.870	0.500	1.00	2.00	J	
1,1-Dichloropropene	563-58-6	0.500	0.250	0.500	1.00	U	
1,2,3-Trichlorobenzene	87-61-6	0.300	0.150	0.300	0.600	U	
1,2,3-Trichloropropane	96-18-4	1.00	0.500	1.00	2.00	U	
1,2,4-Trichlorobenzene	120-82-1	0.400	0.200	0.400	0.800	U	
1,2,4-Trimethylbenzene	95-63-6	0.500	0.250	0.500	1.00	U	
1,2-Dibromo-3-chloropropane	96-12-8	2.00	1.00	2.00	4.00	U	
1,2-Dibromoethane	106-93-4	0.500	0.250	0.500	1.00	U	
1,2-Dichlorobenzene	95-50-1	0.250	0.125	0.250	0.500	U	
1,2-Dichloroethane	107-06-2	0.500	0.250	0.500	1.00	U	
1,2-Dichloropropane	78-87-5	0.400	0.200	0.400	0.800	U	
1,3,5-Trimethylbenzene	108-67-8	0.500	0.250	0.500	1.00	U	
1,3-Dichlorobenzene	541-73-1	0.500	0.250	0.500	1.00	U	
1,3-Dichloropropane	142-28-9	0.400	0.200	0.400	0.800	U	
1,4-Dichlorobenzene	106-46-7	0.500	0.125	0.500	1.00	U	
2,2-Dichloropropane	594-20-7	0.500	0.250	0.500	1.00	U	
2-Butanone	78-93-3	5.00	2.50	5.00	10.0	U	
2-Chlorotoluene	95-49-8	0.250	0.125	0.250	0.500	U	
2-Hexanone	591-78-6	5.00	2.50	5.00	10.0	U	
4-Chlorotoluene	106-43-4	0.500	0.250	0.500	1.00	U	
4-Methyl-2-pentanone	108-10-1	5.00	2.50	5.00	10.0	U	
Acetone	67-64-1	3.87	2.50	5.00	10.0	J	
Benzene	71-43-2	0.250	0.125	0.250	0.500	U	
Bromobenzene	108-86-1	0.250	0.125	0.250	0.500	U	
Bromochloromethane	74-97-5	0.400	0.200	0.400	0.800	U	
Bromodichloromethane	75-27-4	0.500	0.250	0.500	1.00	U	
Bromoform	75-25-2	1.00	0.500	1.00	2.00	U	
Bromomethane	74-83-9	1.00	0.500	1.00	2.00	U	
Carbon disulfide	75-15-0	1.00	0.500	1.00	2.00	U	

Client ID:	47WW55			**Collection Date:**	07/23/2020 10:45
Laboratory ID:	M0G1924-02			**Prep Date:**	07/29/2020 15:40
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:40
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435142.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Carbon tetrachloride	56-23-5	0.500	0.250	0.500	1.00	U	
Chlorobenzene	108-90-7	0.250	0.125	0.250	0.500	U	
Chlorodibromomethane	124-48-1	0.500	0.250	0.500	1.00	U	
Chloroethane (Ethyl chloride)	75-00-3	1.00	0.500	1.00	2.00	U	
Chloroform	67-66-3	0.900	0.125	0.250	0.500		
Chloromethane	74-87-3	1.00	0.500	1.00	2.00	U	
cis-1,2-Dichloroethene	156-59-2	3.51	0.250	0.500	1.00		
cis-1,3-Dichloropropene	10061-01-5	0.500	0.250	0.500	1.00	U	
Dibromomethane	74-95-3	0.500	0.250	0.500	1.00	U	
Dichlorodifluoromethane	75-71-8	0.500	0.250	0.500	1.00	U	
Ethylbenzene	100-41-4	0.500	0.250	0.500	1.00	U	
Hexachlorobutadiene	87-68-3	0.500	0.250	0.500	1.00	U	
Isopropylbenzene	98-82-8	0.500	0.250	0.500	1.00	U	
m-,p-Xylene	179601-23-1	1.00	0.500	1.00	2.00	U	
Methylene chloride	75-09-2	0.500	0.250	0.500	1.00	U	
Naphthalene	91-20-3	0.400	0.200	0.400	0.800	U	
n-Butylbenzene	104-51-8	0.500	0.250	0.500	1.00	U	
n-Propylbenzene	103-65-1	0.250	0.125	0.250	0.500	U	
o-Xylene	95-47-6	0.500	0.250	0.500	1.00	U	
p-Isopropyltoluene	99-87-6	0.500	0.250	0.500	1.00	U	
sec-Butylbenzene	135-98-8	0.500	0.250	0.500	1.00	U	
Styrene	100-42-5	0.250	0.125	0.250	0.500	U	
tert-Butylbenzene	98-06-6	0.500	0.250	0.500	1.00	U	
Tetrachloroethene	127-18-4	0.500	0.250	0.500	1.00	U	
Toluene	108-88-3	0.500	0.250	0.500	1.00	U	
trans-1,2-Dichloroethene	156-60-5	0.480	0.250	0.500	1.00	J	
trans-1,3-Dichloropropene	10061-02-6	1.00	0.500	1.00	2.00	U	
Trichlorofluoromethane	75-69-4	0.500	0.250	0.500	1.00	U	
Vinyl acetate	108-05-4	5.00	2.50	5.00	10.0	U	Q4, Q7
Vinyl chloride	75-01-4	0.500	0.250	0.500	1.00	U	

Client ID:	47WW55			**Collection Date:**	07/23/2020 10:45
Laboratory ID:	M0G1924-02			**Prep Date:**	07/29/2020 15:40
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:40
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435142.D
Analyst:	EEA	**Dilution:**	1		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	102	80-119	% Rec			
1,2-Dichloroethane-d4	101	81-118	% Rec			
Toluene-d8	99.0	89-112	% Rec			
4-Bromofluorobenzene	103	85-114	% Rec			

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW55			**Collection Date:**	07/23/2020 10:45
Laboratory ID:	M0G1924-02RE1			**Prep Date:**	07/30/2020 17:42
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/30/2020 17:42
Batch / Sequence:	B0G1543 / S0G0523	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435202.D
Analyst:	EEA	**Dilution:**	100		

Sample Notes: D

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Trichloroethene	79-01-6	2410	25.0	50.0	100		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
4-Bromofluorobenzene	101	85-114	% Rec			
1,2-Dichloroethane-d4	104	81-118	% Rec			
Dibromofluoromethane	106	80-119	% Rec			
Toluene-d8	95.6	89-112	% Rec			

Client ID:	47WW52			**Collection Date:**	07/23/2020 11:45
Laboratory ID:	M0G1924-03			**Prep Date:**	07/29/2020 15:58
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:58
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435143.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
1,1,1,2-Tetrachloroethane	630-20-6	0.500	0.250	0.500	1.00	U	
1,1,1-Trichloroethane	71-55-6	0.500	0.250	0.500	1.00	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.400	0.200	0.400	0.800	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	4.00	2.00	4.00	8.00	U	
1,1,2-Trichloroethane	79-00-5	0.500	0.250	0.500	1.00	U	
1,1-Dichloroethane	75-34-3	0.250	0.125	0.250	0.500	U	
1,1-Dichloroethene	75-35-4	1.50	0.500	1.00	2.00	J	
1,1-Dichloropropene	563-58-6	0.500	0.250	0.500	1.00	U	
1,2,3-Trichlorobenzene	87-61-6	0.300	0.150	0.300	0.600	U	
1,2,3-Trichloropropane	96-18-4	1.00	0.500	1.00	2.00	U	
1,2,4-Trichlorobenzene	120-82-1	0.400	0.200	0.400	0.800	U	
1,2,4-Trimethylbenzene	95-63-6	0.500	0.250	0.500	1.00	U	
1,2-Dibromo-3-chloropropane	96-12-8	2.00	1.00	2.00	4.00	U	
1,2-Dibromoethane	106-93-4	0.500	0.250	0.500	1.00	U	
1,2-Dichlorobenzene	95-50-1	0.250	0.125	0.250	0.500	U	
1,2-Dichloroethane	107-06-2	0.500	0.250	0.500	1.00	U	
1,2-Dichloropropane	78-87-5	0.400	0.200	0.400	0.800	U	
1,3,5-Trimethylbenzene	108-67-8	0.500	0.250	0.500	1.00	U	
1,3-Dichlorobenzene	541-73-1	0.500	0.250	0.500	1.00	U	
1,3-Dichloropropane	142-28-9	0.400	0.200	0.400	0.800	U	
1,4-Dichlorobenzene	106-46-7	0.500	0.125	0.500	1.00	U	
2,2-Dichloropropane	594-20-7	0.500	0.250	0.500	1.00	U	
2-Butanone	78-93-3	5.00	2.50	5.00	10.0	U	
2-Chlorotoluene	95-49-8	0.250	0.125	0.250	0.500	U	
2-Hexanone	591-78-6	5.00	2.50	5.00	10.0	U	
4-Chlorotoluene	106-43-4	0.500	0.250	0.500	1.00	U	
4-Methyl-2-pentanone	108-10-1	5.00	2.50	5.00	10.0	U	
Acetone	67-64-1	5.00	2.50	5.00	10.0	U	
Benzene	71-43-2	0.250	0.125	0.250	0.500	U	
Bromobenzene	108-86-1	0.250	0.125	0.250	0.500	U	
Bromochloromethane	74-97-5	0.400	0.200	0.400	0.800	U	
Bromodichloromethane	75-27-4	0.500	0.250	0.500	1.00	U	
Bromoform	75-25-2	1.00	0.500	1.00	2.00	U	
Bromomethane	74-83-9	1.00	0.500	1.00	2.00	U	
Carbon disulfide	75-15-0	1.00	0.500	1.00	2.00	U	

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW52			**Collection Date:**	07/23/2020 11:45
Laboratory ID:	M0G1924-03			**Prep Date:**	07/29/2020 15:58
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:58
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435143.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Carbon tetrachloride	56-23-5	0.500	0.250	0.500	1.00	U	
Chlorobenzene	108-90-7	0.250	0.125	0.250	0.500	U	
Chlorodibromomethane	124-48-1	0.500	0.250	0.500	1.00	U	
Chloroethane (Ethyl chloride)	75-00-3	1.00	0.500	1.00	2.00	U	
Chloroform	67-66-3	0.250	0.125	0.250	0.500	U	
Chloromethane	74-87-3	1.00	0.500	1.00	2.00	U	
cis-1,2-Dichloroethene	156-59-2	5.49	0.250	0.500	1.00		
cis-1,3-Dichloropropene	10061-01-5	0.500	0.250	0.500	1.00	U	
Dibromomethane	74-95-3	0.500	0.250	0.500	1.00	U	
Dichlorodifluoromethane	75-71-8	0.500	0.250	0.500	1.00	U	
Ethylbenzene	100-41-4	0.500	0.250	0.500	1.00	U	
Hexachlorobutadiene	87-68-3	0.500	0.250	0.500	1.00	U	
Isopropylbenzene	98-82-8	0.500	0.250	0.500	1.00	U	
m-,p-Xylene	179601-23-1	1.00	0.500	1.00	2.00	U	
Methylene chloride	75-09-2	0.500	0.250	0.500	1.00	U	
Naphthalene	91-20-3	0.400	0.200	0.400	0.800	U	
n-Butylbenzene	104-51-8	0.500	0.250	0.500	1.00	U	
n-Propylbenzene	103-65-1	0.250	0.125	0.250	0.500	U	
o-Xylene	95-47-6	0.500	0.250	0.500	1.00	U	
p-Isopropyltoluene	99-87-6	0.500	0.250	0.500	1.00	U	
sec-Butylbenzene	135-98-8	0.500	0.250	0.500	1.00	U	
Styrene	100-42-5	0.250	0.125	0.250	0.500	U	
tert-Butylbenzene	98-06-6	0.500	0.250	0.500	1.00	U	
Tetrachloroethene	127-18-4	0.500	0.250	0.500	1.00	U	
Toluene	108-88-3	0.500	0.250	0.500	1.00	U	
trans-1,2-Dichloroethene	156-60-5	0.520	0.250	0.500	1.00	J	
trans-1,3-Dichloropropene	10061-02-6	1.00	0.500	1.00	2.00	U	
Trichlorofluoromethane	75-69-4	0.500	0.250	0.500	1.00	U	
Vinyl acetate	108-05-4	5.00	2.50	5.00	10.0	U	Q4, Q7
Vinyl chloride	75-01-4	0.390	0.250	0.500	1.00	J	

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW52			**Collection Date:**	07/23/2020 11:45
Laboratory ID:	M0G1924-03			**Prep Date:**	07/29/2020 15:58
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:58
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435143.D
Analyst:	EEA	**Dilution:**	1		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	102	80-119	% Rec			
Toluene-d8	97.4	89-112	% Rec			
1,2-Dichloroethane-d4	101	81-118	% Rec			
4-Bromofluorobenzene	101	85-114	% Rec			

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Laboratory Report Number: M0G1924

Client Project ID: Longhorn

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW52			**Collection Date:**	07/23/2020 11:45
Laboratory ID:	M0G1924-03RE1			**Prep Date:**	07/30/2020 18:01
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/30/2020 18:01
Batch / Sequence:	B0G1543 / S0G0523	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435203.D
Analyst:	EEA	**Dilution:**	100		

Sample Notes: D

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Trichloroethene	79-01-6	5990	25.0	50.0	100		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
4-Bromofluorobenzene	104	85-114	% Rec			
Dibromofluoromethane	102	80-119	% Rec			
1,2-Dichloroethane-d4	102	81-118	% Rec			
Toluene-d8	96.6	89-112	% Rec			

Client ID:	47WW53			**Collection Date:**	07/23/2020 12:30
Laboratory ID:	M0G1924-04			**Prep Date:**	07/29/2020 16:17
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 16:17
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435144.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
1,1,1,2-Tetrachloroethane	630-20-6	0.500	0.250	0.500	1.00	U	
1,1,1-Trichloroethane	71-55-6	0.500	0.250	0.500	1.00	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.400	0.200	0.400	0.800	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	4.00	2.00	4.00	8.00	U	
1,1,2-Trichloroethane	79-00-5	0.500	0.250	0.500	1.00	U	
1,1-Dichloroethane	75-34-3	0.250	0.125	0.250	0.500	U	
1,1-Dichloroethene	75-35-4	4.15	0.500	1.00	2.00		
1,1-Dichloropropene	563-58-6	0.500	0.250	0.500	1.00	U	
1,2,3-Trichlorobenzene	87-61-6	0.300	0.150	0.300	0.600	U	
1,2,3-Trichloropropane	96-18-4	1.00	0.500	1.00	2.00	U	
1,2,4-Trichlorobenzene	120-82-1	0.400	0.200	0.400	0.800	U	
1,2,4-Trimethylbenzene	95-63-6	0.500	0.250	0.500	1.00	U	
1,2-Dibromo-3-chloropropane	96-12-8	2.00	1.00	2.00	4.00	U	
1,2-Dibromoethane	106-93-4	0.500	0.250	0.500	1.00	U	
1,2-Dichlorobenzene	95-50-1	0.250	0.125	0.250	0.500	U	
1,2-Dichloroethane	107-06-2	0.500	0.250	0.500	1.00	U	
1,2-Dichloropropane	78-87-5	0.400	0.200	0.400	0.800	U	
1,3,5-Trimethylbenzene	108-67-8	0.500	0.250	0.500	1.00	U	
1,3-Dichlorobenzene	541-73-1	0.500	0.250	0.500	1.00	U	
1,3-Dichloropropane	142-28-9	0.400	0.200	0.400	0.800	U	
1,4-Dichlorobenzene	106-46-7	0.500	0.125	0.500	1.00	U	
2,2-Dichloropropane	594-20-7	0.500	0.250	0.500	1.00	U	
2-Butanone	78-93-3	5.00	2.50	5.00	10.0	U	
2-Chlorotoluene	95-49-8	0.250	0.125	0.250	0.500	U	
2-Hexanone	591-78-6	5.00	2.50	5.00	10.0	U	
4-Chlorotoluene	106-43-4	0.500	0.250	0.500	1.00	U	
4-Methyl-2-pentanone	108-10-1	5.00	2.50	5.00	10.0	U	
Acetone	67-64-1	7.08	2.50	5.00	10.0	J	
Benzene	71-43-2	0.250	0.125	0.250	0.500	U	
Bromobenzene	108-86-1	0.250	0.125	0.250	0.500	U	
Bromochloromethane	74-97-5	0.400	0.200	0.400	0.800	U	
Bromodichloromethane	75-27-4	0.500	0.250	0.500	1.00	U	
Bromoform	75-25-2	1.00	0.500	1.00	2.00	U	
Bromomethane	74-83-9	1.00	0.500	1.00	2.00	U	
Carbon disulfide	75-15-0	0.720	0.500	1.00	2.00	J	

Client ID:	47WW53			**Collection Date:**	07/23/2020 12:30
Laboratory ID:	M0G1924-04			**Prep Date:**	07/29/2020 16:17
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 16:17
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435144.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Carbon tetrachloride	56-23-5	0.500	0.250	0.500	1.00	U	
Chlorobenzene	108-90-7	0.250	0.125	0.250	0.500	U	
Chlorodibromomethane	124-48-1	0.500	0.250	0.500	1.00	U	
Chloroethane (Ethyl chloride)	75-00-3	1.00	0.500	1.00	2.00	U	
Chloroform	67-66-3	0.250	0.125	0.250	0.500	U	
Chloromethane	74-87-3	0.520	0.500	1.00	2.00	J	
cis-1,2-Dichloroethene	156-59-2	23.8	0.250	0.500	1.00		
cis-1,3-Dichloropropene	10061-01-5	0.500	0.250	0.500	1.00	U	
Dibromomethane	74-95-3	0.500	0.250	0.500	1.00	U	
Dichlorodifluoromethane	75-71-8	0.500	0.250	0.500	1.00	U	
Ethylbenzene	100-41-4	0.500	0.250	0.500	1.00	U	
Hexachlorobutadiene	87-68-3	0.500	0.250	0.500	1.00	U	
Isopropylbenzene	98-82-8	0.500	0.250	0.500	1.00	U	
m-,p-Xylene	179601-23-1	1.00	0.500	1.00	2.00	U	
Methylene chloride	75-09-2	0.500	0.250	0.500	1.00	U	
Naphthalene	91-20-3	0.400	0.200	0.400	0.800	U	
n-Butylbenzene	104-51-8	0.500	0.250	0.500	1.00	U	
n-Propylbenzene	103-65-1	0.250	0.125	0.250	0.500	U	
o-Xylene	95-47-6	0.500	0.250	0.500	1.00	U	
p-Isopropyltoluene	99-87-6	0.500	0.250	0.500	1.00	U	
sec-Butylbenzene	135-98-8	0.500	0.250	0.500	1.00	U	
Styrene	100-42-5	0.250	0.125	0.250	0.500	U	
tert-Butylbenzene	98-06-6	0.500	0.250	0.500	1.00	U	
Tetrachloroethene	127-18-4	0.400	0.250	0.500	1.00	J	
Toluene	108-88-3	0.500	0.250	0.500	1.00	U	
trans-1,2-Dichloroethene	156-60-5	4.11	0.250	0.500	1.00		
trans-1,3-Dichloropropene	10061-02-6	1.00	0.500	1.00	2.00	U	
Trichlorofluoromethane	75-69-4	0.500	0.250	0.500	1.00	U	
Vinyl acetate	108-05-4	5.00	2.50	5.00	10.0	U	Q4, Q7
Vinyl chloride	75-01-4	0.290	0.250	0.500	1.00	J	

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW53			**Collection Date:**	07/23/2020 12:30
Laboratory ID:	M0G1924-04			**Prep Date:**	07/29/2020 16:17
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 16:17
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435144.D
Analyst:	EEA	**Dilution:**	1		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	104	80-119	% Rec			
Toluene-d8	101	89-112	% Rec			
1,2-Dichloroethane-d4	103	81-118	% Rec			
4-Bromofluorobenzene	105	85-114	% Rec			

Laboratory Report Number: M0G1924

Client Project ID: Longhorn

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW53			**Collection Date:**	07/23/2020 12:30
Laboratory ID:	M0G1924-04RE1			**Prep Date:**	07/30/2020 18:19
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/30/2020 18:19
Batch / Sequence:	B0G1543 / S0G0523	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435204.D
Analyst:	EEA	**Dilution:**	100		

Sample Notes: D

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Trichloroethene	79-01-6	5540	25.0	50.0	100		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
4-Bromofluorobenzene	104	85-114	% Rec			
Dibromofluoromethane	104	80-119	% Rec			
1,2-Dichloroethane-d4	103	81-118	% Rec			
Toluene-d8	95.4	89-112	% Rec			

Client ID:	47WW48			**Collection Date:**	07/23/2020 14:00
Laboratory ID:	M0G1924-05			**Prep Date:**	07/29/2020 16:35
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 16:35
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435145.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
1,1,1,2-Tetrachloroethane	630-20-6	0.500	0.250	0.500	1.00	U	
1,1,1-Trichloroethane	71-55-6	0.500	0.250	0.500	1.00	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.400	0.200	0.400	0.800	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	4.00	2.00	4.00	8.00	U	
1,1,2-Trichloroethane	79-00-5	0.430	0.250	0.500	1.00	J	
1,1-Dichloroethane	75-34-3	1.73	0.125	0.250	0.500		
1,1-Dichloroethene	75-35-4	25.4	0.500	1.00	2.00		
1,1-Dichloropropene	563-58-6	0.500	0.250	0.500	1.00	U	
1,2,3-Trichlorobenzene	87-61-6	0.300	0.150	0.300	0.600	U	
1,2,3-Trichloropropane	96-18-4	1.00	0.500	1.00	2.00	U	
1,2,4-Trichlorobenzene	120-82-1	0.400	0.200	0.400	0.800	U	
1,2,4-Trimethylbenzene	95-63-6	0.500	0.250	0.500	1.00	U	
1,2-Dibromo-3-chloropropane	96-12-8	2.00	1.00	2.00	4.00	U	
1,2-Dibromoethane	106-93-4	0.500	0.250	0.500	1.00	U	
1,2-Dichlorobenzene	95-50-1	0.250	0.125	0.250	0.500	U	
1,2-Dichloroethane	107-06-2	1.56	0.250	0.500	1.00		
1,2-Dichloropropane	78-87-5	0.400	0.200	0.400	0.800	U	
1,3,5-Trimethylbenzene	108-67-8	0.500	0.250	0.500	1.00	U	
1,3-Dichlorobenzene	541-73-1	0.500	0.250	0.500	1.00	U	
1,3-Dichloropropane	142-28-9	0.400	0.200	0.400	0.800	U	
1,4-Dichlorobenzene	106-46-7	0.500	0.125	0.500	1.00	U	
2,2-Dichloropropane	594-20-7	0.500	0.250	0.500	1.00	U	
2-Butanone	78-93-3	5.00	2.50	5.00	10.0	U	
2-Chlorotoluene	95-49-8	0.250	0.125	0.250	0.500	U	
2-Hexanone	591-78-6	5.00	2.50	5.00	10.0	U	
4-Chlorotoluene	106-43-4	0.500	0.250	0.500	1.00	U	
4-Methyl-2-pentanone	108-10-1	5.00	2.50	5.00	10.0	U	
Acetone	67-64-1	5.28	2.50	5.00	10.0	J	
Benzene	71-43-2	0.350	0.125	0.250	0.500	J	
Bromobenzene	108-86-1	0.250	0.125	0.250	0.500	U	
Bromochloromethane	74-97-5	0.400	0.200	0.400	0.800	U	
Bromodichloromethane	75-27-4	10.2	0.250	0.500	1.00		
Bromoform	75-25-2	1.52	0.500	1.00	2.00	J	
Bromomethane	74-83-9	1.00	0.500	1.00	2.00	U	
Carbon disulfide	75-15-0	1.00	0.500	1.00	2.00	U	

Client ID:	47WW48			**Collection Date:**	07/23/2020 14:00
Laboratory ID:	M0G1924-05			**Prep Date:**	07/29/2020 16:35
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 16:35
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435145.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Carbon tetrachloride	56-23-5	0.500	0.250	0.500	1.00	U	
Chlorobenzene	108-90-7	0.250	0.125	0.250	0.500	U	
Chlorodibromomethane	124-48-1	6.49	0.250	0.500	1.00		
Chloroethane (Ethyl chloride)	75-00-3	1.00	0.500	1.00	2.00	U	
Chloroform	67-66-3	66.1	0.125	0.250	0.500		
Chloromethane	74-87-3	1.00	0.500	1.00	2.00	J	
cis-1,3-Dichloropropene	10061-01-5	0.500	0.250	0.500	1.00	U	
Dibromomethane	74-95-3	0.500	0.250	0.500	1.00	U	
Dichlorodifluoromethane	75-71-8	0.500	0.250	0.500	1.00	U	
Ethylbenzene	100-41-4	0.500	0.250	0.500	1.00	U	
Hexachlorobutadiene	87-68-3	0.500	0.250	0.500	1.00	U	
Isopropylbenzene	98-82-8	0.500	0.250	0.500	1.00	U	
m-,p-Xylene	179601-23-1	1.00	0.500	1.00	2.00	U	
Methylene chloride	75-09-2	0.990	0.250	0.500	1.00	J	
Naphthalene	91-20-3	0.400	0.200	0.400	0.800	U	
n-Butylbenzene	104-51-8	0.500	0.250	0.500	1.00	U	
n-Propylbenzene	103-65-1	0.250	0.125	0.250	0.500	U	
o-Xylene	95-47-6	0.500	0.250	0.500	1.00	U	
p-Isopropyltoluene	99-87-6	0.500	0.250	0.500	1.00	U	
sec-Butylbenzene	135-98-8	0.500	0.250	0.500	1.00	U	
Styrene	100-42-5	0.250	0.125	0.250	0.500	U	
tert-Butylbenzene	98-06-6	0.500	0.250	0.500	1.00	U	
Tetrachloroethene	127-18-4	1.79	0.250	0.500	1.00		
Toluene	108-88-3	0.310	0.250	0.500	1.00	J	
trans-1,2-Dichloroethene	156-60-5	2.23	0.250	0.500	1.00		
trans-1,3-Dichloropropene	10061-02-6	1.00	0.500	1.00	2.00	U	
Trichlorofluoromethane	75-69-4	0.500	0.250	0.500	1.00	U	
Vinyl acetate	108-05-4	5.00	2.50	5.00	10.0	U	Q4, Q7
Vinyl chloride	75-01-4	5.93	0.250	0.500	1.00		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	101	80-119	% Rec			
Toluene-d8	96.0	89-112	% Rec			
1,2-Dichloroethane-d4	100	81-118	% Rec			
4-Bromofluorobenzene	97.1	85-114	% Rec			

Laboratory Report Number: M0G1924

Client Project ID: Longhorn

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW48			**Collection Date:**	07/23/2020 14:00
Laboratory ID:	M0G1924-05RE1			**Prep Date:**	07/30/2020 17:05
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/30/2020 17:05
Batch / Sequence:	B0G1543 / S0G0523	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435200.D
Analyst:	EEA	**Dilution:**	50		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
cis-1,2-Dichloroethene	156-59-2	352	12.5	25.0	50.0		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
4-Bromofluorobenzene	101	85-114	% Rec			
1,2-Dichloroethane-d4	103	81-118	% Rec			
Dibromofluoromethane	105	80-119	% Rec			
Toluene-d8	93.9	89-112	% Rec			

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Laboratory Report Number: M0G1924

Client Project ID: Longhorn

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW48			**Collection Date:**	07/23/2020 14:00
Laboratory ID:	M0G1924-05RE2			**Prep Date:**	07/31/2020 15:02
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/31/2020 15:02
Batch / Sequence:	B0G1631 / S0G0560	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435228.D
Analyst:	EEA	**Dilution:**	500		

Sample Notes: D3

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Trichloroethene	79-01-6	54100	125	250	500		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Toluene-d8	93.2	89-112	% Rec			
Dibromofluoromethane	104	80-119	% Rec			
4-Bromofluorobenzene	101	85-114	% Rec			
1,2-Dichloroethane-d4	103	81-118	% Rec			

Client ID:	47WW49			**Collection Date:**	07/23/2020 14:55
Laboratory ID:	M0G1924-06RE1			**Prep Date:**	07/30/2020 18:38
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/30/2020 18:38
Batch / Sequence:	B0G1543 / S0G0523	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435205.D
Analyst:	EEA	**Dilution:**	100		

Sample Notes: D

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
1,1,1,2-Tetrachloroethane	630-20-6	50.0	25.0	50.0	100	U	
1,1,1-Trichloroethane	71-55-6	50.0	25.0	50.0	100	U	
1,1,2,2-Tetrachloroethane	79-34-5	40.0	20.0	40.0	80.0	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	400	200	400	800	U	
1,1,2-Trichloroethane	79-00-5	50.0	25.0	50.0	100	U	
1,1-Dichloroethane	75-34-3	25.0	12.5	25.0	50.0	U	
1,1-Dichloroethene	75-35-4	100	50.0	100	200	U	
1,1-Dichloropropene	563-58-6	50.0	25.0	50.0	100	U	
1,2,3-Trichlorobenzene	87-61-6	30.0	15.0	30.0	60.0	U	
1,2,3-Trichloropropane	96-18-4	100	50.0	100	200	U	
1,2,4-Trichlorobenzene	120-82-1	40.0	20.0	40.0	80.0	U	
1,2,4-Trimethylbenzene	95-63-6	50.0	25.0	50.0	100	U	
1,2-Dibromo-3-chloropropane	96-12-8	200	100	200	400	U	
1,2-Dibromoethane	106-93-4	50.0	25.0	50.0	100	U	
1,2-Dichlorobenzene	95-50-1	25.0	12.5	25.0	50.0	U	
1,2-Dichloroethane	107-06-2	50.0	25.0	50.0	100	U	
1,2-Dichloropropane	78-87-5	40.0	20.0	40.0	80.0	U	
1,3,5-Trimethylbenzene	108-67-8	50.0	25.0	50.0	100	U	
1,3-Dichlorobenzene	541-73-1	50.0	25.0	50.0	100	U	
1,3-Dichloropropane	142-28-9	40.0	20.0	40.0	80.0	U	
1,4-Dichlorobenzene	106-46-7	50.0	12.5	50.0	100	U	
2,2-Dichloropropane	594-20-7	50.0	25.0	50.0	100	U	
2-Butanone	78-93-3	500	250	500	1000	U	
2-Chlorotoluene	95-49-8	25.0	12.5	25.0	50.0	U	
2-Hexanone	591-78-6	500	250	500	1000	U	
4-Chlorotoluene	106-43-4	50.0	25.0	50.0	100	U	
4-Methyl-2-pentanone	108-10-1	500	250	500	1000	U	
Acetone	67-64-1	500	250	500	1000	U	
Benzene	71-43-2	25.0	12.5	25.0	50.0	U	
Bromobenzene	108-86-1	25.0	12.5	25.0	50.0	U	
Bromochloromethane	74-97-5	40.0	20.0	40.0	80.0	U	
Bromodichloromethane	75-27-4	50.0	25.0	50.0	100	U	
Bromoform	75-25-2	100	50.0	100	200	U	
Bromomethane	74-83-9	100	50.0	100	200	U	Q2, Q7

Client ID:	47WW49			**Collection Date:**	07/23/2020 14:55
Laboratory ID:	M0G1924-06RE1			**Prep Date:**	07/30/2020 18:38
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/30/2020 18:38
Batch / Sequence:	B0G1543 / S0G0523	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435205.D
Analyst:	EEA	**Dilution:**	100		

Sample Notes: D

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Carbon disulfide	75-15-0	100	50.0	100	200	U	
Carbon tetrachloride	56-23-5	50.0	25.0	50.0	100	U	
Chlorobenzene	108-90-7	25.0	12.5	25.0	50.0	U	
Chlorodibromomethane	124-48-1	50.0	25.0	50.0	100	U	
Chloroethane (Ethyl chloride)	75-00-3	100	50.0	100	200	U	Q2, Q7
Chloroform	67-66-3	79.0	12.5	25.0	50.0		
Chloromethane	74-87-3	100	50.0	100	200	U	
cis-1,2-Dichloroethene	156-59-2	505	25.0	50.0	100		
cis-1,3-Dichloropropene	10061-01-5	50.0	25.0	50.0	100	U	
Dibromomethane	74-95-3	50.0	25.0	50.0	100	U	
Dichlorodifluoromethane	75-71-8	50.0	25.0	50.0	100	U	
Ethylbenzene	100-41-4	50.0	25.0	50.0	100	U	
Hexachlorobutadiene	87-68-3	50.0	25.0	50.0	100	U	
Isopropylbenzene	98-82-8	50.0	25.0	50.0	100	U	
m-,p-Xylene	179601-23-1	100	50.0	100	200	U	
Methylene chloride	75-09-2	50.0	25.0	50.0	100	U	
Naphthalene	91-20-3	40.0	20.0	40.0	80.0	U	
n-Butylbenzene	104-51-8	50.0	25.0	50.0	100	U	
n-Propylbenzene	103-65-1	25.0	12.5	25.0	50.0	U	
o-Xylene	95-47-6	50.0	25.0	50.0	100	U	
p-Isopropyltoluene	99-87-6	50.0	25.0	50.0	100	U	
sec-Butylbenzene	135-98-8	50.0	25.0	50.0	100	U	
Styrene	100-42-5	25.0	12.5	25.0	50.0	U	
tert-Butylbenzene	98-06-6	50.0	25.0	50.0	100	U	
Tetrachloroethene	127-18-4	50.0	25.0	50.0	100	U	
Toluene	108-88-3	50.0	25.0	50.0	100	U	
trans-1,2-Dichloroethene	156-60-5	50.0	25.0	50.0	100	U	
trans-1,3-Dichloropropene	10061-02-6	100	50.0	100	200	U	
Trichloroethene	79-01-6	10200	25.0	50.0	100		
Trichlorofluoromethane	75-69-4	50.0	25.0	50.0	100	U	
Vinyl acetate	108-05-4	500	250	500	1000	U	Q4, Q7
Vinyl chloride	75-01-4	50.0	25.0	50.0	100	U	

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW49			**Collection Date:**	07/23/2020 14:55
Laboratory ID:	M0G1924-06RE1			**Prep Date:**	07/30/2020 18:38
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/30/2020 18:38
Batch / Sequence:	B0G1543 / S0G0523	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435205.D
Analyst:	EEA	**Dilution:**	100		

Sample Notes: D

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	104	80-119	% Rec			
Toluene-d8	93.5	89-112	% Rec			
1,2-Dichloroethane-d4	101	81-118	% Rec			
4-Bromofluorobenzene	98.0	85-114	% Rec			

Client ID:	47WW50			**Collection Date:**	07/23/2020 15:46
Laboratory ID:	M0G1924-07			**Prep Date:**	07/29/2020 17:08
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 17:08
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435147.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
1,1,1,2-Tetrachloroethane	630-20-6	0.500	0.250	0.500	1.00	U	
1,1,1-Trichloroethane	71-55-6	0.500	0.250	0.500	1.00	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.400	0.200	0.400	0.800	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	4.00	2.00	4.00	8.00	U	
1,1,2-Trichloroethane	79-00-5	0.500	0.250	0.500	1.00	U	
1,1-Dichloroethane	75-34-3	0.250	0.125	0.250	0.500	U	
1,1-Dichloroethene	75-35-4	1.00	0.500	1.00	2.00	U	
1,1-Dichloropropene	563-58-6	0.500	0.250	0.500	1.00	U	
1,2,3-Trichlorobenzene	87-61-6	0.300	0.150	0.300	0.600	U	
1,2,3-Trichloropropane	96-18-4	1.00	0.500	1.00	2.00	U	
1,2,4-Trichlorobenzene	120-82-1	0.400	0.200	0.400	0.800	U	
1,2,4-Trimethylbenzene	95-63-6	0.500	0.250	0.500	1.00	U	
1,2-Dibromo-3-chloropropane	96-12-8	2.00	1.00	2.00	4.00	U	
1,2-Dibromoethane	106-93-4	0.500	0.250	0.500	1.00	U	
1,2-Dichlorobenzene	95-50-1	0.250	0.125	0.250	0.500	U	
1,2-Dichloroethane	107-06-2	0.500	0.250	0.500	1.00	U	
1,2-Dichloropropane	78-87-5	0.400	0.200	0.400	0.800	U	
1,3,5-Trimethylbenzene	108-67-8	0.500	0.250	0.500	1.00	U	
1,3-Dichlorobenzene	541-73-1	0.500	0.250	0.500	1.00	U	
1,3-Dichloropropane	142-28-9	0.400	0.200	0.400	0.800	U	
1,4-Dichlorobenzene	106-46-7	0.500	0.125	0.500	1.00	U	
2,2-Dichloropropane	594-20-7	0.500	0.250	0.500	1.00	U	
2-Butanone	78-93-3	5.00	2.50	5.00	10.0	U	
2-Chlorotoluene	95-49-8	0.250	0.125	0.250	0.500	U	
2-Hexanone	591-78-6	5.00	2.50	5.00	10.0	U	
4-Chlorotoluene	106-43-4	0.500	0.250	0.500	1.00	U	
4-Methyl-2-pentanone	108-10-1	5.00	2.50	5.00	10.0	U	
Acetone	67-64-1	5.00	2.50	5.00	10.0	U	
Benzene	71-43-2	0.250	0.125	0.250	0.500	U	
Bromobenzene	108-86-1	0.250	0.125	0.250	0.500	U	
Bromochloromethane	74-97-5	0.400	0.200	0.400	0.800	U	
Bromodichloromethane	75-27-4	0.500	0.250	0.500	1.00	U	
Bromoform	75-25-2	1.00	0.500	1.00	2.00	U	
Bromomethane	74-83-9	1.00	0.500	1.00	2.00	U	
Carbon disulfide	75-15-0	1.00	0.500	1.00	2.00	U	

Client ID:	47WW50			**Collection Date:**	07/23/2020 15:46
Laboratory ID:	M0G1924-07			**Prep Date:**	07/29/2020 17:08
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 17:08
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435147.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Carbon tetrachloride	56-23-5	0.500	0.250	0.500	1.00	U	
Chlorobenzene	108-90-7	0.250	0.125	0.250	0.500	U	
Chlorodibromomethane	124-48-1	0.500	0.250	0.500	1.00	U	
Chloroethane (Ethyl chloride)	75-00-3	1.00	0.500	1.00	2.00	U	
Chloroform	67-66-3	0.250	0.125	0.250	0.500	U	
Chloromethane	74-87-3	1.00	0.500	1.00	2.00	U	
cis-1,2-Dichloroethene	156-59-2	24.7	0.250	0.500	1.00		
cis-1,3-Dichloropropene	10061-01-5	0.500	0.250	0.500	1.00	U	
Dibromomethane	74-95-3	0.500	0.250	0.500	1.00	U	
Dichlorodifluoromethane	75-71-8	0.500	0.250	0.500	1.00	U	
Ethylbenzene	100-41-4	0.500	0.250	0.500	1.00	U	
Hexachlorobutadiene	87-68-3	0.500	0.250	0.500	1.00	U	
Isopropylbenzene	98-82-8	0.500	0.250	0.500	1.00	U	
m-,p-Xylene	179601-23-1	1.00	0.500	1.00	2.00	U	
Methylene chloride	75-09-2	0.500	0.250	0.500	1.00	U	
Naphthalene	91-20-3	0.400	0.200	0.400	0.800	U	
n-Butylbenzene	104-51-8	0.500	0.250	0.500	1.00	U	
n-Propylbenzene	103-65-1	0.250	0.125	0.250	0.500	U	
o-Xylene	95-47-6	0.500	0.250	0.500	1.00	U	
p-Isopropyltoluene	99-87-6	0.500	0.250	0.500	1.00	U	
sec-Butylbenzene	135-98-8	0.500	0.250	0.500	1.00	U	
Styrene	100-42-5	0.250	0.125	0.250	0.500	U	
tert-Butylbenzene	98-06-6	0.500	0.250	0.500	1.00	U	
Tetrachloroethene	127-18-4	0.420	0.250	0.500	1.00	J	
Toluene	108-88-3	0.500	0.250	0.500	1.00	U	
trans-1,2-Dichloroethene	156-60-5	0.500	0.250	0.500	1.00	U	
trans-1,3-Dichloropropene	10061-02-6	1.00	0.500	1.00	2.00	U	
Trichlorofluoromethane	75-69-4	0.500	0.250	0.500	1.00	U	
Vinyl acetate	108-05-4	5.00	2.50	5.00	10.0	U	Q4, Q7
Vinyl chloride	75-01-4	0.500	0.250	0.500	1.00	U	

Client ID:	47WW50			**Collection Date:**	07/23/2020 15:46
Laboratory ID:	M0G1924-07			**Prep Date:**	07/29/2020 17:08
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 17:08
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435147.D
Analyst:	EEA	**Dilution:**	1		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	102	80-119	% Rec			
Toluene-d8	99.5	89-112	% Rec			
1,2-Dichloroethane-d4	103	81-118	% Rec			
4-Bromofluorobenzene	103	85-114	% Rec			

Laboratory Report Number: M0G1924

Client Project ID: Longhorn

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW50			**Collection Date:**	07/23/2020 15:46
Laboratory ID:	M0G1924-07RE1			**Prep Date:**	07/30/2020 16:28
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/30/2020 16:28
Batch / Sequence:	B0G1543 / S0G0523	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435198.D
Analyst:	EEA	**Dilution:**	25		

Sample Notes: D

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Trichloroethene	79-01-6	471	6.25	12.5	25.0		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
4-Bromofluorobenzene	103	85-114	% Rec			
1,2-Dichloroethane-d4	103	81-118	% Rec			
Dibromofluoromethane	103	80-119	% Rec			
Toluene-d8	96.5	89-112	% Rec			

Client ID:	47WW51			**Collection Date:**	07/23/2020 16:57
Laboratory ID:	M0G1924-08			**Prep Date:**	07/29/2020 17:26
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 17:26
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435148.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
1,1,1,2-Tetrachloroethane	630-20-6	0.500	0.250	0.500	1.00	U	
1,1,1-Trichloroethane	71-55-6	0.500	0.250	0.500	1.00	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.400	0.200	0.400	0.800	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	4.00	2.00	4.00	8.00	U	
1,1,2-Trichloroethane	79-00-5	0.500	0.250	0.500	1.00	U	
1,1-Dichloroethane	75-34-3	0.250	0.125	0.250	0.500	U	
1,1-Dichloroethene	75-35-4	3.56	0.500	1.00	2.00		
1,1-Dichloropropene	563-58-6	0.500	0.250	0.500	1.00	U	
1,2,3-Trichlorobenzene	87-61-6	0.300	0.150	0.300	0.600	U	
1,2,3-Trichloropropane	96-18-4	1.00	0.500	1.00	2.00	U	
1,2,4-Trichlorobenzene	120-82-1	0.400	0.200	0.400	0.800	U	
1,2,4-Trimethylbenzene	95-63-6	0.500	0.250	0.500	1.00	U	
1,2-Dibromo-3-chloropropane	96-12-8	2.00	1.00	2.00	4.00	U	
1,2-Dibromoethane	106-93-4	0.500	0.250	0.500	1.00	U	
1,2-Dichlorobenzene	95-50-1	0.250	0.125	0.250	0.500	U	
1,2-Dichloroethane	107-06-2	0.500	0.250	0.500	1.00	U	
1,2-Dichloropropane	78-87-5	0.400	0.200	0.400	0.800	U	
1,3,5-Trimethylbenzene	108-67-8	0.500	0.250	0.500	1.00	U	
1,3-Dichlorobenzene	541-73-1	0.500	0.250	0.500	1.00	U	
1,3-Dichloropropane	142-28-9	0.400	0.200	0.400	0.800	U	
1,4-Dichlorobenzene	106-46-7	0.500	0.125	0.500	1.00	U	
2,2-Dichloropropane	594-20-7	0.500	0.250	0.500	1.00	U	
2-Butanone	78-93-3	5.00	2.50	5.00	10.0	U	
2-Chlorotoluene	95-49-8	0.250	0.125	0.250	0.500	U	
2-Hexanone	591-78-6	5.00	2.50	5.00	10.0	U	
4-Chlorotoluene	106-43-4	0.500	0.250	0.500	1.00	U	
4-Methyl-2-pentanone	108-10-1	5.00	2.50	5.00	10.0	U	
Acetone	67-64-1	5.00	2.50	5.00	10.0	U	
Benzene	71-43-2	0.250	0.125	0.250	0.500	U	
Bromobenzene	108-86-1	0.250	0.125	0.250	0.500	U	
Bromochloromethane	74-97-5	0.400	0.200	0.400	0.800	U	
Bromodichloromethane	75-27-4	0.500	0.250	0.500	1.00	U	
Bromoform	75-25-2	1.00	0.500	1.00	2.00	U	
Bromomethane	74-83-9	1.00	0.500	1.00	2.00	U	
Carbon disulfide	75-15-0	1.00	0.500	1.00	2.00	U	

Client ID:	47WW51			**Collection Date:**	07/23/2020 16:57
Laboratory ID:	M0G1924-08			**Prep Date:**	07/29/2020 17:26
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 17:26
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435148.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Carbon tetrachloride	56-23-5	0.500	0.250	0.500	1.00	U	
Chlorobenzene	108-90-7	0.250	0.125	0.250	0.500	U	
Chlorodibromomethane	124-48-1	0.500	0.250	0.500	1.00	U	
Chloroethane (Ethyl chloride)	75-00-3	1.00	0.500	1.00	2.00	U	
Chloroform	67-66-3	0.220	0.125	0.250	0.500	J	
Chloromethane	74-87-3	1.00	0.500	1.00	2.00	U	
cis-1,3-Dichloropropene	10061-01-5	0.500	0.250	0.500	1.00	U	
Dibromomethane	74-95-3	0.500	0.250	0.500	1.00	U	
Dichlorodifluoromethane	75-71-8	0.500	0.250	0.500	1.00	U	
Ethylbenzene	100-41-4	0.500	0.250	0.500	1.00	U	
Hexachlorobutadiene	87-68-3	0.500	0.250	0.500	1.00	U	
Isopropylbenzene	98-82-8	0.500	0.250	0.500	1.00	U	
m-,p-Xylene	179601-23-1	1.00	0.500	1.00	2.00	U	
Methylene chloride	75-09-2	0.500	0.250	0.500	1.00	U	
Naphthalene	91-20-3	0.400	0.200	0.400	0.800	U	
n-Butylbenzene	104-51-8	0.500	0.250	0.500	1.00	U	
n-Propylbenzene	103-65-1	0.250	0.125	0.250	0.500	U	
o-Xylene	95-47-6	0.500	0.250	0.500	1.00	U	
p-Isopropyltoluene	99-87-6	0.500	0.250	0.500	1.00	U	
sec-Butylbenzene	135-98-8	0.500	0.250	0.500	1.00	U	
Styrene	100-42-5	0.250	0.125	0.250	0.500	U	
tert-Butylbenzene	98-06-6	0.500	0.250	0.500	1.00	U	
Tetrachloroethene	127-18-4	0.370	0.250	0.500	1.00	J	
Toluene	108-88-3	0.340	0.250	0.500	1.00	J	
trans-1,2-Dichloroethene	156-60-5	1.58	0.250	0.500	1.00		
trans-1,3-Dichloropropene	10061-02-6	1.00	0.500	1.00	2.00	U	
Trichlorofluoromethane	75-69-4	0.500	0.250	0.500	1.00	U	
Vinyl acetate	108-05-4	5.00	2.50	5.00	10.0	U	Q4, Q7
Vinyl chloride	75-01-4	0.510	0.250	0.500	1.00	J	

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	102	80-119	% Rec			
Toluene-d8	96.1	89-112	% Rec			
1,2-Dichloroethane-d4	104	81-118	% Rec			
4-Bromofluorobenzene	98.3	85-114	% Rec			

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	47WW51			**Collection Date:**	07/23/2020 16:57
Laboratory ID:	M0G1924-08RE1			**Prep Date:**	07/30/2020 16:47
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/30/2020 16:47
Batch / Sequence:	B0G1543 / S0G0523	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435199.D
Analyst:	EEA	**Dilution:**	50		

Sample Notes: D

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
cis-1,2-Dichloroethene	156-59-2	271	12.5	25.0	50.0		
Trichloroethene	79-01-6	3990	12.5	25.0	50.0		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	104	80-119	% Rec			
1,2-Dichloroethane-d4	101	81-118	% Rec			
4-Bromofluorobenzene	106	85-114	% Rec			
Toluene-d8	97.5	89-112	% Rec			

Client ID:	EB-05			**Collection Date:**	07/23/2020 17:50
Laboratory ID:	M0G1924-09			**Prep Date:**	07/29/2020 15:03
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:03
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435140.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
1,1,1,2-Tetrachloroethane	630-20-6	0.500	0.250	0.500	1.00	U	
1,1,1-Trichloroethane	71-55-6	0.500	0.250	0.500	1.00	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.400	0.200	0.400	0.800	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	4.00	2.00	4.00	8.00	U	
1,1,2-Trichloroethane	79-00-5	0.500	0.250	0.500	1.00	U	
1,1-Dichloroethane	75-34-3	0.250	0.125	0.250	0.500	U	
1,1-Dichloroethene	75-35-4	1.00	0.500	1.00	2.00	U	
1,1-Dichloropropene	563-58-6	0.500	0.250	0.500	1.00	U	
1,2,3-Trichlorobenzene	87-61-6	0.300	0.150	0.300	0.600	U	
1,2,3-Trichloropropane	96-18-4	1.00	0.500	1.00	2.00	U	
1,2,4-Trichlorobenzene	120-82-1	0.400	0.200	0.400	0.800	U	
1,2,4-Trimethylbenzene	95-63-6	0.500	0.250	0.500	1.00	U	
1,2-Dibromo-3-chloropropane	96-12-8	2.00	1.00	2.00	4.00	U	
1,2-Dibromoethane	106-93-4	0.500	0.250	0.500	1.00	U	
1,2-Dichlorobenzene	95-50-1	0.250	0.125	0.250	0.500	U	
1,2-Dichloroethane	107-06-2	0.500	0.250	0.500	1.00	U	
1,2-Dichloropropane	78-87-5	0.400	0.200	0.400	0.800	U	
1,3,5-Trimethylbenzene	108-67-8	0.500	0.250	0.500	1.00	U	
1,3-Dichlorobenzene	541-73-1	0.500	0.250	0.500	1.00	U	
1,3-Dichloropropane	142-28-9	0.400	0.200	0.400	0.800	U	
1,4-Dichlorobenzene	106-46-7	0.500	0.125	0.500	1.00	U	
2,2-Dichloropropane	594-20-7	0.500	0.250	0.500	1.00	U	
2-Butanone	78-93-3	5.00	2.50	5.00	10.0	U	
2-Chlorotoluene	95-49-8	0.250	0.125	0.250	0.500	U	
2-Hexanone	591-78-6	5.00	2.50	5.00	10.0	U	
4-Chlorotoluene	106-43-4	0.500	0.250	0.500	1.00	U	
4-Methyl-2-pentanone	108-10-1	5.00	2.50	5.00	10.0	U	
Acetone	67-64-1	5.00	2.50	5.00	10.0	U	
Benzene	71-43-2	0.250	0.125	0.250	0.500	U	
Bromobenzene	108-86-1	0.250	0.125	0.250	0.500	U	
Bromochloromethane	74-97-5	0.400	0.200	0.400	0.800	U	
Bromodichloromethane	75-27-4	0.500	0.250	0.500	1.00	U	
Bromoform	75-25-2	1.00	0.500	1.00	2.00	U	
Bromomethane	74-83-9	1.00	0.500	1.00	2.00	U	
Carbon disulfide	75-15-0	1.00	0.500	1.00	2.00	U	

Laboratory Report Number: M0G1924

Client Project ID: Longhorn

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	EB-05			**Collection Date:**	07/23/2020 17:50
Laboratory ID:	M0G1924-09			**Prep Date:**	07/29/2020 15:03
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:03
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435140.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Carbon tetrachloride	56-23-5	0.500	0.250	0.500	1.00	U	
Chlorobenzene	108-90-7	0.250	0.125	0.250	0.500	U	
Chlorodibromomethane	124-48-1	0.500	0.250	0.500	1.00	U	
Chloroethane (Ethyl chloride)	75-00-3	1.00	0.500	1.00	2.00	U	
Chloroform	67-66-3	1.33	0.125	0.250	0.500		
Chloromethane	74-87-3	1.00	0.500	1.00	2.00	U	
cis-1,2-Dichloroethene	156-59-2	0.500	0.250	0.500	1.00	U	
cis-1,3-Dichloropropene	10061-01-5	0.500	0.250	0.500	1.00	U	
Dibromomethane	74-95-3	0.500	0.250	0.500	1.00	U	
Dichlorodifluoromethane	75-71-8	0.500	0.250	0.500	1.00	U	
Ethylbenzene	100-41-4	0.500	0.250	0.500	1.00	U	
Hexachlorobutadiene	87-68-3	0.500	0.250	0.500	1.00	U	
Isopropylbenzene	98-82-8	0.500	0.250	0.500	1.00	U	
m-,p-Xylene	179601-23-1	1.00	0.500	1.00	2.00	U	
Methylene chloride	75-09-2	0.500	0.250	0.500	1.00	U	
Naphthalene	91-20-3	0.400	0.200	0.400	0.800	U	
n-Butylbenzene	104-51-8	0.500	0.250	0.500	1.00	U	
n-Propylbenzene	103-65-1	0.250	0.125	0.250	0.500	U	
o-Xylene	95-47-6	0.500	0.250	0.500	1.00	U	
p-Isopropyltoluene	99-87-6	0.500	0.250	0.500	1.00	U	
sec-Butylbenzene	135-98-8	0.500	0.250	0.500	1.00	U	
Styrene	100-42-5	0.250	0.125	0.250	0.500	U	
tert-Butylbenzene	98-06-6	0.500	0.250	0.500	1.00	U	
Tetrachloroethene	127-18-4	0.500	0.250	0.500	1.00	U	
Toluene	108-88-3	0.500	0.250	0.500	1.00	U	
trans-1,2-Dichloroethene	156-60-5	0.500	0.250	0.500	1.00	U	
trans-1,3-Dichloropropene	10061-02-6	1.00	0.500	1.00	2.00	U	
Trichloroethene	79-01-6	0.500	0.250	0.500	1.00	U	
Trichlorofluoromethane	75-69-4	0.500	0.250	0.500	1.00	U	
Vinyl acetate	108-05-4	5.00	2.50	5.00	10.0	U	Q4, Q7
Vinyl chloride	75-01-4	0.500	0.250	0.500	1.00	U	

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	EB-05			**Collection Date:**	07/23/2020 17:50
Laboratory ID:	M0G1924-09			**Prep Date:**	07/29/2020 15:03
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 15:03
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435140.D
Analyst:	EEA	**Dilution:**	1		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	102	80-119	% Rec			
Toluene-d8	99.3	89-112	% Rec			
1,2-Dichloroethane-d4	101	81-118	% Rec			
4-Bromofluorobenzene	102	85-114	% Rec			

Client ID:	TB-03			**Collection Date:**	07/23/2020 07:00
Laboratory ID:	M0G1924-10			**Prep Date:**	07/29/2020 14:44
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 14:44
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435139.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
1,1,1,2-Tetrachloroethane	630-20-6	0.500	0.250	0.500	1.00	U	
1,1,1-Trichloroethane	71-55-6	0.500	0.250	0.500	1.00	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.400	0.200	0.400	0.800	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	4.00	2.00	4.00	8.00	U	
1,1,2-Trichloroethane	79-00-5	0.500	0.250	0.500	1.00	U	
1,1-Dichloroethane	75-34-3	0.250	0.125	0.250	0.500	U	
1,1-Dichloroethene	75-35-4	1.00	0.500	1.00	2.00	U	
1,1-Dichloropropene	563-58-6	0.500	0.250	0.500	1.00	U	
1,2,3-Trichlorobenzene	87-61-6	0.300	0.150	0.300	0.600	U	
1,2,3-Trichloropropane	96-18-4	1.00	0.500	1.00	2.00	U	
1,2,4-Trichlorobenzene	120-82-1	0.400	0.200	0.400	0.800	U	
1,2,4-Trimethylbenzene	95-63-6	0.500	0.250	0.500	1.00	U	
1,2-Dibromo-3-chloropropane	96-12-8	2.00	1.00	2.00	4.00	U	
1,2-Dibromoethane	106-93-4	0.500	0.250	0.500	1.00	U	
1,2-Dichlorobenzene	95-50-1	0.250	0.125	0.250	0.500	U	
1,2-Dichloroethane	107-06-2	0.500	0.250	0.500	1.00	U	
1,2-Dichloropropane	78-87-5	0.400	0.200	0.400	0.800	U	
1,3,5-Trimethylbenzene	108-67-8	0.500	0.250	0.500	1.00	U	
1,3-Dichlorobenzene	541-73-1	0.500	0.250	0.500	1.00	U	
1,3-Dichloropropane	142-28-9	0.400	0.200	0.400	0.800	U	
1,4-Dichlorobenzene	106-46-7	0.500	0.125	0.500	1.00	U	
2,2-Dichloropropane	594-20-7	0.500	0.250	0.500	1.00	U	
2-Butanone	78-93-3	5.00	2.50	5.00	10.0	U	
2-Chlorotoluene	95-49-8	0.250	0.125	0.250	0.500	U	
2-Hexanone	591-78-6	5.00	2.50	5.00	10.0	U	
4-Chlorotoluene	106-43-4	0.500	0.250	0.500	1.00	U	
4-Methyl-2-pentanone	108-10-1	5.00	2.50	5.00	10.0	U	
Acetone	67-64-1	5.00	2.50	5.00	10.0	U	
Benzene	71-43-2	0.250	0.125	0.250	0.500	U	
Bromobenzene	108-86-1	0.250	0.125	0.250	0.500	U	
Bromochloromethane	74-97-5	0.400	0.200	0.400	0.800	U	
Bromodichloromethane	75-27-4	0.500	0.250	0.500	1.00	U	
Bromoform	75-25-2	1.00	0.500	1.00	2.00	U	
Bromomethane	74-83-9	1.00	0.500	1.00	2.00	U	
Carbon disulfide	75-15-0	1.00	0.500	1.00	2.00	U	

Client ID:	TB-03			**Collection Date:**	07/23/2020 07:00
Laboratory ID:	M0G1924-10			**Prep Date:**	07/29/2020 14:44
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 14:44
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435139.D
Analyst:	EEA	**Dilution:**	1		

Analyte	CAS Number	Result	DL	LOD	LOQ	Flag	Qual
Carbon tetrachloride	56-23-5	0.500	0.250	0.500	1.00	U	
Chlorobenzene	108-90-7	0.250	0.125	0.250	0.500	U	
Chlorodibromomethane	124-48-1	0.500	0.250	0.500	1.00	U	
Chloroethane (Ethyl chloride)	75-00-3	1.00	0.500	1.00	2.00	U	
Chloroform	67-66-3	0.250	0.125	0.250	0.500	U	
Chloromethane	74-87-3	1.00	0.500	1.00	2.00	U	
cis-1,2-Dichloroethene	156-59-2	0.500	0.250	0.500	1.00	U	
cis-1,3-Dichloropropene	10061-01-5	0.500	0.250	0.500	1.00	U	
Dibromomethane	74-95-3	0.500	0.250	0.500	1.00	U	
Dichlorodifluoromethane	75-71-8	0.500	0.250	0.500	1.00	U	
Ethylbenzene	100-41-4	0.500	0.250	0.500	1.00	U	
Hexachlorobutadiene	87-68-3	0.500	0.250	0.500	1.00	U	
Isopropylbenzene	98-82-8	0.500	0.250	0.500	1.00	U	
m-,p-Xylene	179601-23-1	1.00	0.500	1.00	2.00	U	
Methylene chloride	75-09-2	0.500	0.250	0.500	1.00	U	
Naphthalene	91-20-3	0.400	0.200	0.400	0.800	U	
n-Butylbenzene	104-51-8	0.500	0.250	0.500	1.00	U	
n-Propylbenzene	103-65-1	0.250	0.125	0.250	0.500	U	
o-Xylene	95-47-6	0.500	0.250	0.500	1.00	U	
p-Isopropyltoluene	99-87-6	0.500	0.250	0.500	1.00	U	
sec-Butylbenzene	135-98-8	0.500	0.250	0.500	1.00	U	
Styrene	100-42-5	0.250	0.125	0.250	0.500	U	
tert-Butylbenzene	98-06-6	0.500	0.250	0.500	1.00	U	
Tetrachloroethene	127-18-4	0.500	0.250	0.500	1.00	U	
Toluene	108-88-3	0.500	0.250	0.500	1.00	U	
trans-1,2-Dichloroethene	156-60-5	0.500	0.250	0.500	1.00	U	
trans-1,3-Dichloropropene	10061-02-6	1.00	0.500	1.00	2.00	U	
Trichloroethene	79-01-6	0.500	0.250	0.500	1.00	U	
Trichlorofluoromethane	75-69-4	0.500	0.250	0.500	1.00	U	
Vinyl acetate	108-05-4	5.00	2.50	5.00	10.0	U	Q4, Q7
Vinyl chloride	75-01-4	0.500	0.250	0.500	1.00	U	

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID:	TB-03			**Collection Date:**	07/23/2020 07:00
Laboratory ID:	M0G1924-10			**Prep Date:**	07/29/2020 14:44
Matrix:	Aqueous	**Prep Method:**	EPA 5030C	**Analyzed:**	07/29/2020 14:44
Batch / Sequence:	B0G1490 / S0G0504	**Analytical Method:**	EPA 8260B	**Calibration:**	20G0019
Instrument:	HPMS8	**Units:**	ug/L	**File ID:**	8M435139.D
Analyst:	EEA	**Dilution:**	1		

Surrogate	Recovery	Limits	Units	Q	Qualifier	
Dibromofluoromethane	99.1	80-119	% Rec			
1,2-Dichloroethane-d4	97.4	81-118	% Rec			
Toluene-d8	96.9	89-112	% Rec			
4-Bromofluorobenzene	98.6	85-114	% Rec			

Laboratory Report Number: M0G1924

Client Project ID: Longhorn

Notes and Definitions

D: Dilution performed on sample.
D3: Dilution was performed due to high target analyte concentration.
J: The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
Q2: LCS recovery is above acceptance limits. However there is no impact on the reported value.
Q4: ICV recovery is above acceptance limits. The reported value is estimated.
Q7: CCV recovery is above acceptance limits. However there is no impact on the reported value.
U: The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.
ug/L: Micrograms per Liter
DL: Detection Limit
LOD: Limit of Detection
LOQ: Limit of Quantitation

COC No. A 58462

158 Starlite Drive
Marietta, OH 45750

MICROBAC®

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Toll Free: 800-373-4071

E-3312

Company Name: HDR

Project Contact: LYNN LUTZ | Contact Phone #:

Turn Around Requirements: | Location: KARNACK, TX

Project ID: 10097916

Sampler (print): J. MOORMAN & E. NORTH | Signature: Jacob Moorman

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOCs	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
47WW54		X	07/23/2020	0935	G.W.	3		X		
47WW55		X	07/23/2020	1045	G.W.	3		X		
47WW52		X	07/23/2020	1145	G.W.	3		X		
47WW53		X	07/23/2020	1230	G.W.	3		X		
47WW48		X	07/23/2020	1400	G.W.	3		X		
47WW49		X	07/23/2020	1455	G.W.	3		X		HIGH TCE
47WW50		X	07/23/2020	1546	G.W.	3		X		HIGH TCE
47WW51		X	07/23/2020	1657	G.W.	3		X		HIGH TCE
EB-05		X	07/23/2020	1750	E.B.	3		X		
TB-03			07/23/2020	0700	T.B.	3		X		

M O G 1 9 2 4

HDR
Rec'd: 07/25/2020 09:45
By: Emily Shilling
Temp: 1.2 (Signature)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	07/24/2020	1140	Fedex				Jimmy Lee Brooks Jr 7/27/20
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:	

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page 1 of 1

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MICROBAC

Work Order # MOG1924

COOLER TEMP >6° C LOG

SAMPLE ID	Bottle 1 °C	Bottle 2 °C	Bottle 3 °C	Bottle 4 °C	Bottle 5 °C	Bottle 6 °C

ES 7-28-20

pH Lot # NA

pH Exceptions

SAMPLE ID	Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6

ES 7-28-20

PRESERVATIVE EXCEPTIONS

✓ NONE

_ AS NOTED

Document Control # 1957
Last 04-10-2019

Issued to: Document Master File

E-3313

Attachment 6

Photograph Log

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LHAAP-47 PSI, DPT-018 Soil Core

6/1/2020



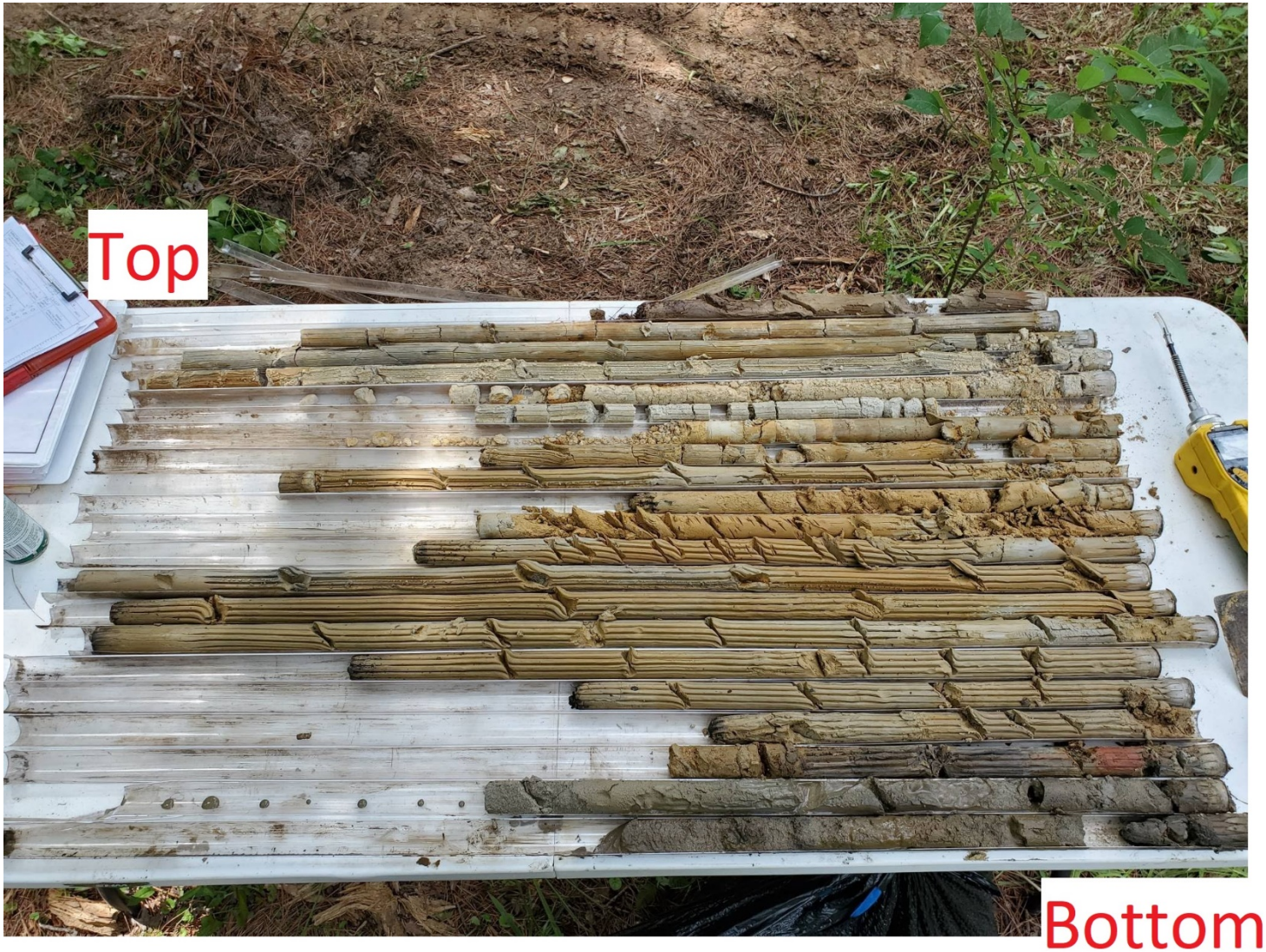
LHAAP-47 PSI, DPT-019 Soil Core

6/1/2020



LHAAP-47 PSI, DPT-015 Soil Core

6/3/2020



LHAAP-47 PSI, DPT-022 Soil Core

6/5/2020



LHAAP-47 PSI, DPT-026 Soil Core

6/7/2020



LHAAP-47 PSI, DPT-033 Soil Core

6/13/2020



LHAAP-47 PSI, DPT-34 Soil Core

6/14/2020

